MATHER AFB
CALIFORNIA

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 2970.1

APPENDIX F

SECOND QUARTER 2009 ANALYTICAL DATA

SITEWIDE GROUNDWATER MONITORING

MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

SECOND QUARTER 2009
ANALYTICAL DATA REPORT

Contract FA8903-08-D-8777, Task Order 34
MWH Americas, Inc. File No.: 1951161.
CDRL A001F

Prepared for:
Air Force Center for Environmental Excellence
Brooks Air Force Base, Texas

Prepared by:

MWH Americas, Inc.
AFCEE Full Service Remedial Action Contract Management Office
Walnut Creek, California

April 2010

TABLE OF CONTENTS

Section		Page
1.0	INTRODUCTION	1-1
2.0	ANALYTICAL RESULTS	2-1
3.0	CROSS-REFERENCE TABLE	3-1
4.0	HOLDING TIMES	4-1
5.0	QA/QC SUMMARY REPORT	5-1
6.0	CHAIN-OF-CUSTODY FORMS	6-1
REFERENCES		R-1

LIST OF TABLES
(Tables follow sections)

Table No.	
1-1	ANALYTICAL METHODS UTILIZED
2-1	ANALYTICAL DATA SUMMARY
2-1.1	Monitoring and Extraction Wells; USEPA Method 8260 - Volatile Organic Compounds
2-1.2	ACW Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.3	MBSAC Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.4	Site 7 Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.5	USEPA Method 524.2 - Volatile Organic Compounds
2-1.6	Monitoring and Extraction Wells; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.7	ACW Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
2-1.8	MBSAC Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.9	Site 7 Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.10	Monitoring and Extraction Wells; USEPA Method 8081 - Pesticides; USEPA Method 8082 - Polychlorinated Biphenyls
2-1.11	Monitoring and Extraction Wells; USEPA Method 8270 - Polynuclear Aromatic Hydrocarbons
2-1.12	Monitoring and Extraction Wells; Metals
2-1.13	ACW Pump and Treat Effluent/Influent; Metals
2-1.14	MBSAC Pump and Treat Effluent/Influent; Metals
2-1.15	Site 7 Pump and Treat Effluent/Influent; Metals
2-1.16	Monitoring and Extraction Wells; General Chemistry
2-1.17	ACW Pump and Treat Effluent/Influent; General Chemistry
2-1.18	MBSAC Pump and Treat Effluent/Influent; General Chemistry
2-1.19	Site 7 Pump and Treat Effluent/Influent; General Chemistry
2-2	SURROGATE PERCENT RECOVERY SUMMARY
2-2.1	USEPA Method 8260 - Volatile Organic Compounds
2-2.2	USEPA Method 524.2 - Volatile Organic Compounds
2-2.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
2-2.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
2-2.5	USEPA Method 8081 - Pesticides
2-2.6	USEPA Method 8082 - Polychlorinated Biphenyls
2-2.7	USEPA Method 8270 - Polynuclear Aromatic Hydrocarbons
3-1	FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE

LIST OF TABLES

(Continued)

Table No.	
4-1	SUMMARY OF EXTRACTION AND ANALYSIS DATES
4-1.1	USEPA Method 8260 - Volatile Organic Compounds
4-1.2	USEPA Method 524.2 - Volatile Organic Compounds
4-1.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
4-1.4	USEPA Method 8081 - Pesticides USEPA Method 8082 - Polychlorinated Biphenyls
4-1.5	USEPA Method 8270 - Polynuclear Aromatic Hydrocarbons
4-1.6	USEPA Method 6010 - ICP Metals
4-1.7	USEPA Method 6020 - Thallium USEPA Method 7470 - Mercury
4-1.8	Standard Method 2320 - Alkalinity USEPA Method 130.2 - Hardness
4-1.9	USEPA Method 160.1 - Total Filterable Residue USEPA Method 160.2 - Total Suspended Solids
4-1.10	USEPA Method 300.0 - Chloride, Nitrate, and Sulfate USEPA Method 314.0 - Perchlorate
4-1.11	USEPA Method 340.2 - Fluoride USEPA Method 376.1 - Total Sulfide
4.1.12	USEPA Method 7196 - Hexavalent Chromium
5-1	SAMPLE BATCHING SUMMARY
5-1.1	Analytical Batch Summary
5-1.2	Matrix Spike and Matrix Spike Duplicate Batch Summary
5-2	LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
5-2.1	USEPA Method 8260 - Volatile Organic Compounds
5-2.2	USEPA Method 524.2 - Volatile Organic Compounds
5-2.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
5-2.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
5-2.5	USEPA Method 8081 - Pesticides USEPA Method 8082 - Polychlorinated Biphenyls
5-2.6	USEPA Method 8270 - Polynuclear Aromatic Hydrocarbons
5-2.7	Metals
5-2.8	General Chemistry
5-3	MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
5-3.1	USEPA Method 8260 - Volatile Organic Compounds
5-3.2	USEPA Method 524.2 - Volatile Organic Compounds
5-3.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
5-3.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
5-3.5	USEPA Method 8081 - Pesticides USEPA Method 8082 - Polychlorinated Biphenyls
5-3.6	USEPA Method 8270 - Polynuclear Aromatic Hydrocarbons
5-3.7	Metals

LIST OF TABLES
(Continued)

Table No.	
5-3.8	General Chemistry
5-4	LABORATORY DUPLICATE SUMMARY; General Chemistry

1.0 INTRODUCTION

In accordance with Task Order 34, Contract No. FA8903-08-D-8777, MWH Americas, Inc., (MWH; formerly Montgomery Watson) has prepared this Second Quarter 2009 Analytical Data Report (ADR) for the Mather and Landfill groundwater sampling, and AC&W, Main Base/SAC area, Site 7, and Off-Base performance monitoring at the former Mather Air Force Base (AFB), California. This ADR provides a tabular summary of the analytical data associated with routine groundwater monitoring samples as well as biweekly and monthly treatment system samples taken from April 2, 2009, through June 30, 2009. The analytical quality control (QC) program used to assess chemical data presented in this ADR is discussed in the Final Basewide Groundwater Monitoring Sampling and Analysis Plan (SAP) (Montgomery Watson, 1997a), the Final AC&W Site Sampling and Analysis Plan (Montgomery Watson, 1997b), the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Off-Base Sampling (Montgomery Watson, 1997c), the Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Main Base/SAC Performance Sampling – Revision 1 (Montgomery Watson, 2000), and the Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Site 7 Performance Sampling (Montgomery Watson, 1999).

The tables presented in this ADR are grouped to correspond with the outline presented in Appendix A, Tab 6 of the AFCEE Handbook for the Installation Restoration Program (IRP) Remedial Investigations and Feasibility Studies (RI/FS) ("the Handbook") (AFCEE, 1993). The ADR table formats presented in the Handbook have been altered to facilitate more efficient data organization; however, the information presented in this ADR is equivalent to that contained in the table formats suggested by the Handbook. Differences in table format are explained in the text of each individual section. A complete list of all analytical methods utilized for this project is presented in Table 1-1.

Shaded data indicate nonconformances with project control limits.

Unless otherwise noted, all metals data is reported as dissolved metals.

TABLE 1-1

ANALYTICAL METHODS UTILIZED
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analytical Parameter	Method	Matrix
VOCs	USEPA 8260	Water
VOCs	USEPA 524.2	Water
Purgeable TPH as Gasoline	USEPA 8015 Modified	Water
Extractable TPH as Diesel	USEPA 8015 Modified	Water
Pesticides	USEPA 8081	Water
PCBs	USEPA 8082	Water
PAHs	USEPA 8270	Water
ICP Metals	USEPA 6010	Water
Thallium	USEPA 6020	Water
Mercury by Atomic Absorption	USEPA 7470	Water
Total Alkalinity	SM 2320	Water
Hardness	USEPA 130.2	Water
Total Filterable Residue	USEPA 160.1	Water
Total Suspended Solids	USEPA 160.2	Water
Anions (Chloride, Nitrate, and Sulfate)	USEPA 300.0	Water
Perchlorate	USEPA 314.0	Water
Fluoride	USEPA 340.2	Water
Total Sulfide	USEPA 376.1	Water
Hexavalent Chromium	USEPA 7196	Water

Notes:
ICP - Inductively Coupled Plasma
PAHs - Polynuclear Aromatic Hydrocarbons
PCBs - Polychlorinated Biphenyls
SM - Standard Methods, 19th edition
TPH - Total Petroleum Hydrocarbons
USEPA - United States Environmental Protection Agency
VOCs - Volatile Organic Compounds

2.0 ANALYTICAL RESULTS

The tables presented in this section correspond to Table A-4 of the Handbook (Appendix A, Tab 6).

Table A-4 of the Handbook has been separated into two distinct table types for this report. The Analytical Data Summary (Tables 2-1.1 through 2-1.19) contains the results for all environmental field samples and field sample duplicates. Trip blank sample results are also included in these 19 tables. The Surrogate Percent Recovery Summary (Tables 2-2.1 through 2-2.7) separates surrogate recovery information from all other analytical data.

All results have been subjected to data verification. Results determined to be not detected, but estimated, have been flagged with a "UJ." Results determined to be estimated values have been flagged with a "J." Results considered not usable have been flagged with an "R." Results reported between the method detection limit and the practical quantitation limit have been flagged with an "F." Results determined to have matrix effects have been flagged with an "M." Results for analytes found in associated method or trip blanks, as well as in the associated sample, have been flagged with a "B."

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-BV-01		7-BV-02		7-BV-02 (FD)		7-BV-04		7-BV-06		7-BV-07		7-BV-08		7-BV-13		7-EW-1	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	1.2		0.46	F	0.46	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		0.44	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	0.55	F	0.42	F	0.49	F	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		3.2		3.1		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	0.73	F	5.0		5.1		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	0.32	F	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	M
1,4-Dichlorobenzene	4.4		0.81		0.77		0.24	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M
Benzene	5.3		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
Chlorobenzene	10		4.2		4.1		0.42	F	0.22	F	< 2.5		0.21	F	< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		0.14	F	0.15	F	< 0.50		< 0.50		0.14	F	< 0.50		0.088	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		1.8		1.6		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.32	F
cis-1,3-Dichloropropene	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		0.37	F
Tetrachloroethene	0.51		2.2		2.2		0.41	F	0.35	F	1.4		0.68		1.2		1.3	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	
Trichloroethene	0.66		13		13		< 0.50		< 0.50		2.6		2.1		3.5		8.0	M
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	1.3		0.52		0.55		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 11 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-EW-2		7-EW-2 (FD)		7-PZ-37		7-PZ-37P		7-PZ-37P (FD)		7-PZ-38P		ACW AT-1		ACW AT-1 (FD)	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1-Dichloroethane	0.84	F	0.81	F	0.25	F	< 1.0		0.24	F	NA		NA		NA	
1,1-Dichloroethene	0.31	F	0.32	F	0.39	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA		NA	
1,2-Dichloroethane	1.2		1.1		0.84		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0	M	< 3.0	M	< 3.0		< 3.0		< 3.0		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50	M	< 0.50	M	< 0.50		< 0.50		< 0.50		0.30	F	< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		NA		NA		NA	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA		NA	
Bromomethane	< 10		< 10		< 10		< 10		< 10		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		NA		NA		NA	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		NA		NA		NA	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.11	F	0.11	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	2.3		2.3		0.77		< 0.50		0.47	F	< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0	M	< 1.0	M	< 1.0	M	NA		NA		NA	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		NA		NA		NA	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Methylene chloride	0.36	F	< 2.0		< 2.0		< 2.0		< 2.0		NA		NA		NA	
Tetrachloroethene	3.2		3.4		3.9		2.8		2.9		0.53		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0	M	< 1.0	M	< 1.0	M	NA		NA		NA	
Trichloroethene	23	M	24	M	24		3.8		3.7		0.19	F	12	M	11	M
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 12 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	ACW AT-2		ACW EW-1		ACW EW-2		ACW EW-3		ACW EW-4		ACW EW-6R		ACW PZ-02		ACW PZ-05	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	12	M	6.0	M	3.3	M	4.0	M	0.68	M	7.7	M	< 0.50		0.34	F
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 13 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	ACW PZ-06C	ACW PZ-07C	ACW PZ-08C	ACW PZ-09C	ACW PZ-10C	ACW R2	FFS EW15-1		FFS EW15-2	
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	UJ	< 0.50	UJ
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Benzene	NA	NA	NA	NA	NA	NA	< 0.50		< 0.50	
Bromodichloromethane	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
Bromoform	NA	NA	NA	NA	NA	NA	< 2.0		< 2.0	
Bromomethane	NA	NA	NA	NA	NA	NA	< 10		< 10	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	UJ	2.3	J
Chlorobenzene	NA	NA	NA	NA	NA	NA	< 2.5		< 2.5	
Chloroethane	NA	NA	NA	NA	NA	NA	< 5.0		< 5.0	
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		0.31	F
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.27	F	0.23	F
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
Dibromochloromethane	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	< 4.0		< 4.0	
Ethylbenzene	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
Methylene chloride	NA	NA	NA	NA	NA	NA	< 2.0		< 2.0	
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.22	FJ	4.4	J
Toluene	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
Trichloroethene	0.51	0.49 F	0.17 F	0.22 F	3.1	< 0.50	4.2	J	3.7	J
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Xylenes, total	NA	NA	NA	NA	NA	NA	< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 14 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	FFS MW15-1		FFS MW15-2		FFS MW15-3		FFS MW15-6		MAFB-005		MAFB-006	MAFB-013		MAFB-033
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
1,1-Dichloroethene	< 0.50	UJ	< 0.50	UJ	< 0.50	UJ	< 0.50		< 0.50		< 1.0	< 0.50		< 0.50
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		NA		NA		NA	NA		NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 1.0	< 0.50		< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 2.0	< 1.0		< 1.0
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		NA		NA		NA	NA		NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50		< 1.0	< 0.50		< 0.50
Benzene	< 0.50		< 0.50		< 0.50		NA		NA		NA	NA		NA
Bromodichloromethane	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
Bromoform	< 2.0		< 2.0		< 2.0		NA		NA		NA	NA		NA
Bromomethane	< 10		< 10		< 10		NA		NA		NA	NA		NA
Carbon tetrachloride	< 0.50	UJ	< 0.50	UJ	2.4	J	2.5		< 0.50		< 1.0	< 0.50		< 0.50
Chlorobenzene	< 2.5		< 2.5		< 2.5		NA		NA		NA	NA		NA
Chloroethane	< 5.0		< 5.0		< 5.0		NA		NA		NA	NA		NA
Chloroform	< 0.50		0.090	F	0.42	F	0.55		0.20	F	< 1.0	< 0.50		0.59
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 1.0	< 0.50		< 0.50
cis-1,2-Dichloroethene	0.25	F	0.72		0.25	F	0.35	F	< 0.50		< 1.0	< 0.50	UJ	0.73
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
Dibromochloromethane	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		NA		NA		NA	NA		NA
Ethylbenzene	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
Methylene chloride	< 2.0		< 2.0		< 2.0		NA		NA		NA	NA		NA
Tetrachloroethene	0.29	FJ	0.42	FJ	2.2	J	4.4		1.5		< 1.0	0.31	F	0.68
Toluene	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
Trichloroethene	5.0	J	10	J	4.1	J	7.5		0.64		< 1.0	0.25	FM	6.9
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 1.0	< 0.50		< 0.50
Xylenes, total	< 1.0		< 1.0		< 1.0		NA		NA		NA	NA		NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 15 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-041		MAFB-042		MAFB-044		MAFB-047	MAFB-047 (FD)		MAFB-048		MAFB-053	MAFB-056	
1,1,1-Trichloroethane	NA		NA		NA		NA	NA		NA		NA	NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA	NA		NA		NA	NA	
1,1,2-Trichloroethane	NA		NA		NA		NA	NA		NA		NA	NA	
1,1-Dichloroethane	NA		NA		NA		NA	NA		NA		NA	NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA	NA		NA		NA	NA	
1,2-Dichloroethane	8.3	M	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	M
1,2-Dichloropropane	6.5	M	< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	M
1,3-Dichlorobenzene	NA		NA		NA		NA	NA		NA		NA	NA	
1,4-Dichlorobenzene	0.33	F	< 0.50	M	< 0.50		< 0.50	< 0.50		< 0.50	M	< 0.50	< 0.50	
Benzene	NA		NA		NA		NA	NA		NA		NA	NA	
Bromodichloromethane	NA		NA		NA		NA	NA		NA		NA	NA	
Bromoform	NA		NA		NA		NA	NA		NA		NA	NA	
Bromomethane	NA		NA		NA		NA	NA		NA		NA	NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50	M	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	
Chlorobenzene	NA		NA		NA		NA	NA		NA		NA	NA	
Chloroethane	NA		NA		NA		NA	NA		NA		NA	NA	
Chloroform	< 0.50	M	< 0.50		< 0.50		< 0.50	< 0.50		0.16	F	< 0.50	< 0.50	M
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	9.0		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA	NA		NA		NA	NA	
Dibromochloromethane	NA		NA		NA		NA	NA		NA		NA	NA	
Dichlorodifluoromethane	NA		NA		NA		NA	NA		NA		NA	NA	
Ethylbenzene	NA		NA		NA		NA	NA		NA		NA	NA	
Methylene chloride	NA		NA		NA		NA	NA		NA		NA	NA	
Tetrachloroethene	3.6		< 0.50		< 0.50		< 0.50	0.23	F	5.3		< 0.50	< 0.50	
Toluene	NA		NA		NA		NA	NA		NA		NA	NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA	NA		NA		NA	NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA	NA		NA		NA	NA	
Trichloroethene	35		< 0.50	M	< 0.50		< 0.50	< 0.50		0.21	F	2.0	0.69	
Trichlorofluoromethane	NA		NA		NA		NA	NA		NA		NA	NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	
Xylenes, total	NA		NA		NA		NA	NA		NA		NA	NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 16 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-059		MAFB-060		MAFB-061		MAFB-062		MAFB-063		MAFB-067		MAFB-068	MAFB-068 (FD)
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA	NA
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA	NA
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA	NA
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA	NA
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Benzene	NA		NA		NA		NA		NA		NA		NA	NA
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA	NA
Bromoform	NA		NA		NA		NA		NA		NA		NA	NA
Bromomethane	NA		NA		NA		NA		NA		NA		NA	NA
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA
Chloroethane	NA		NA		NA		NA		NA		NA		NA	NA
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		0.33	F	< 0.50		< 0.50	< 0.50
Chloromethane	< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA	NA
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA	NA
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA	NA
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA	NA
Methylene chloride	NA		NA		NA		NA		NA		NA		NA	NA
Tetrachloroethene	< 0.50		< 0.50		0.36	F	0.22	F	6.2		< 0.50		< 0.50	< 0.50
Toluene	NA		NA		NA		NA		NA		NA		NA	NA
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA	NA
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA	NA
Trichloroethene	< 0.50		0.28	F	0.24	F	0.33	F	< 0.50		< 0.50		< 0.50	< 0.50
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA	NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Xylenes, total	NA		NA		NA		NA		NA		NA		NA	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 17 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-069	MAFB-078	MAFB-090	MAFB-094	MAFB-096	MAFB-101	MAFB-102	MAFB-104	MAFB-109
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.9	< 0.50	< 0.50
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	< 0.50	< 0.50	< 0.50	0.20 F	0.67	< 0.50	0.43 F	0.17 F	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	0.76	< 0.50	0.24 F	< 0.50 UJ	< 0.50
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	9.3	0.55	7.2	2.1
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	< 0.50	< 0.50	< 0.50	3.1	1.2	< 0.50	8.0	1.7 M	< 0.50
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 18 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-111	MAFB-112	MAFB-122	MAFB-123	MAFB-129	MAFB-131	MAFB-132	MAFB-133
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	< 0.50	< 0.50	0.32 F	< 0.50	< 0.50	0.24 F	< 0.50	0.12 F
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	19	2.1
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1.1	0.74	0.91	< 0.50	< 0.50	0.65	14	4.4
Toluene	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	< 0.50	0.17 F	0.24 F	< 0.50	< 0.50	0.24 F	3.6	0.84
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 19 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-133 (FD)		MAFB-136		MAFB-148		MAFB-149		MAFB-151		MAFB-155		MAFB-155 (FD)		MAFB-159	
1,1,1-Trichloroethane	NA		NA		< 1.0		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		< 1.0		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		< 1.0		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		< 1.0		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		0.41	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		< 2.0		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		< 3.0	M	NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		< 0.50		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		< 1.0		NA		NA		NA		NA		NA	
Bromoform	NA		NA		< 2.0		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		< 10		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		< 2.5		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		< 5.0		NA		NA		NA		NA		NA	
Chloroform	0.12	F	0.21	F	< 0.50		< 0.50		< 0.50		0.24	F	< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	2.1		5.2		< 0.50		< 0.50		< 0.50	UJ	< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		< 1.0		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		< 1.0		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		< 4.0		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		< 1.0		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		< 2.0		NA		NA		NA		NA		NA	
Tetrachloroethene	4.6		5.3		< 0.50		< 0.50		0.22	F	< 0.50		< 0.50		< 0.50	
Toluene	NA		NA		< 1.0		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		< 1.0		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		< 1.0		NA		NA		NA		NA		NA	
Trichloroethene	0.85		1.4		< 0.50	M	< 0.50		< 0.50	M	0.26	F	< 0.50		0.26	F
Trichlorofluoromethane	NA		NA		0.37	F	NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		< 1.0		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 20 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-164		MAFB-167		MAFB-168	MAFB-170		MAFB-171		MAFB-172		MAFB-173		MAFB-174	
1,1,1-Trichloroethane	NA		NA		NA	NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA	NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA	NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA	NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	UJ	< 0.50	UJ	< 0.50	UJ
1,2-Dichlorobenzene	NA		NA		NA	NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA	NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA	NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA	NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA	NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA	NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	UJ	3.0	J	< 0.50	UJ
Chlorobenzene	NA		NA		NA	NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA	NA		NA		NA		NA		NA	
Chloroform	0.28	F	0.24	F	< 0.50	< 0.50		0.14	F	< 0.50		0.35	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		0.97	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA	NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA	NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA	NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA	NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA	NA		NA		NA		NA		NA	
Tetrachloroethene	4.0		3.8		1.6	0.27	F	2.7		< 0.50	UJ	0.60	J	< 0.50	UJ
Toluene	NA		NA		NA	NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA	NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA	NA		NA		NA		NA		NA	
Trichloroethene	< 0.50		13		4.5	0.37	F	6.2		0.49	FJ	3.2	J	0.48	FJ
Trichlorofluoromethane	NA		NA		NA	NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA	NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 21 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-175		MAFB-176		MAFB-177		MAFB-180		MAFB-181		MAFB-191		MAFB-193	MAFB-194
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA	NA
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA	NA
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA	NA
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA	NA
1,1-Dichloroethene	< 0.50		< 0.50	UJ	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Benzene	NA		NA		NA		NA		NA		NA		NA	NA
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA	NA
Bromoform	NA		NA		NA		NA		NA		NA		NA	NA
Bromomethane	NA		NA		NA		NA		NA		NA		NA	NA
Carbon tetrachloride	< 0.50		< 0.50	UJ	2.6		5.8		4.0	J	< 0.50		< 0.50	< 0.50
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA
Chloroethane	NA		NA		NA		NA		NA		NA		NA	NA
Chloroform	0.27	F	0.12	F	0.22	F	0.39	F	0.29	F	< 0.50		< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	UJ	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA	NA
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA	NA
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA	NA
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA	NA
Methylene chloride	NA		NA		NA		NA		NA		NA		NA	NA
Tetrachloroethene	27		< 0.50	UJ	20		91		37	J	< 0.50		< 0.50	< 0.50
Toluene	NA		NA		NA		NA		NA		NA		NA	NA
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA	NA
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA	NA
Trichloroethene	1.0	M	3.2	J	1.3		< 0.50		< 0.50		< 0.50		< 0.50	3.2
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA	NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Xylenes, total	NA		NA		NA		NA		NA		NA		NA	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 22 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-196	MAFB-198	MAFB-199	MAFB-200	MAFB-200 (FD)	MAFB-201	MAFB-202	MAFB-203
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	< 1.0
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	< 1.0
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	< 1.0
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.1
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	NA	NA	NA	NA	NA	NA	NA	< 0.50
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	< 1.0
Bromoform	NA	NA	NA	NA	NA	NA	NA	< 2.0
Bromomethane	NA	NA	NA	NA	NA	NA	NA	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	1.9
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	< 2.5
Chloroethane	NA	NA	NA	NA	NA	NA	NA	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.25 F
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.66
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	< 1.0
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	< 1.0
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	< 4.0
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	< 1.0
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50	0.99 J	0.56 J	0.28 F	0.37 F	12
Toluene	NA	NA	NA	NA	NA	NA	NA	< 1.0
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	< 1.0
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	< 1.0
Trichloroethene	2.1	< 0.50	0.37 F	1.9	1.7	0.63	0.27 F	26
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	NA	NA	NA	NA	NA	NA	NA	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 23 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-204		MAFB-205		MAFB-206		MAFB-207		MAFB-209		MAFB-210		MAFB-211		MAFB-212	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		0.7		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		4.0		0.35	F	0.82		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	< 0.50		< 0.50		< 0.50		1.5		0.21	F	0.072	F	0.076	F	0.070	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	< 0.50		< 0.50		< 0.50	UJ	0.49	F	< 0.50		< 0.50		0.43	F	< 0.50	
Toluene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	0.49	F	0.94		2.3		11		1.3		0.25	F	3.1		0.45	F
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 24 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-214		MAFB-215		MAFB-215 (FD)		MAFB-216	MAFB-216 (FD)		MAFB-217		MAFB-218		MAFB-220	
1,1,1-Trichloroethane	NA		NA		NA		NA	NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA	NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA	NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA	NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		0.47	F	0.55	
1,2-Dichlorobenzene	NA		NA		NA		NA	NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA	NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50	M	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA	NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA	NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA	NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA	NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		2.6	J	3.5	J	< 0.50	< 0.50		3.1		12		6.7	
Chlorobenzene	NA		NA		NA		NA	NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA	NA		NA		NA		NA	
Chloroform	0.48	F	0.54		0.51		< 0.50	0.18	F	0.66		1.4		1.4	
Chloromethane	0.55		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		0.50		0.47	F	< 0.50	< 0.50		0.65		0.39	F	0.39	F
cis-1,3-Dichloropropene	NA		NA		NA		NA	NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA	NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA	NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA	NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA	NA		NA		NA		NA	
Tetrachloroethene	1.7		3.8	J	3.6	J	1.7	1.9		0.27	F	9.2		4.3	
Toluene	NA		NA		NA		NA	NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA	NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA	NA		NA		NA		NA	
Trichloroethene	2.6		16	M	14	M	5.2	4.8		16		12		12	
Trichlorofluoromethane	NA		NA		NA		NA	NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA	NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 25 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-221		MAFB-222		MAFB-223		MAFB-224		MAFB-227		MAFB-228		MAFB-229		MAFB-230	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		0.49	F	< 0.50		0.52		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50	M	< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		2.6		3.6		8.9		< 0.50		0.89		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	< 0.50		0.29	F	0.94		0.8		0.43	F	0.17	F	0.22	F	0.17	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		0.35	F	1.2		0.32	F	1.6		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	< 0.50		5.3		2.2		1.1		1.0		9.6		39		< 0.50	
Toluene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	0.45	F	4.6		16		20		12		0.17	F	1.8		< 0.50	
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 26 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-231		MAFB-232		MAFB-235		MAFB-239		MAFB-240		MAFB-242		MAFB-243		MAFB-246	
1,1,1-Trichloroethane	NA		NA		NA		< 1.0		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		< 1.0		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		< 1.0		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		< 1.0		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50	UJ	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	UJ
1,2-Dichlorobenzene	NA		NA		NA		< 2.0		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		< 3.0		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50	M	< 0.50	
Benzene	NA		NA		NA		< 0.50		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		< 1.0		NA		NA		NA		NA	
Bromoform	NA		NA		NA		< 2.0		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		< 10		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50	UJ	< 0.50		< 0.50		< 0.50		1.5		< 0.50		6.3	J
Chlorobenzene	NA		NA		NA		< 2.5		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		< 5.0		NA		NA		NA		NA	
Chloroform	0.18	F	0.21	F	< 0.50		< 0.50		0.40	F	0.54		0.23	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		0.65		< 0.50		< 0.50		< 0.50		0.30	F	< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		< 1.0		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		< 1.0		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		< 4.0		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		< 1.0		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		< 2.0		NA		NA		NA		NA	
Tetrachloroethene	6.7		< 0.50	UJ	0.60		0.65		9.0		43		2.6		< 0.50	UJ
Toluene	NA		NA		NA		< 1.0		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		< 1.0		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		< 1.0		NA		NA		NA		NA	
Trichloroethene	1.3		2.8	J	0.28	F	0.89		4.6		14		0.97		0.49	FJ
Trichlorofluoromethane	NA		NA		NA		< 1.0		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		< 1.0		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 27 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-247		MAFB-248		MAFB-249		MAFB-250		MAFB-251	MAFB-258		MAFB-259		MAFB-260	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA	NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA	NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA	NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA	NA		NA		NA	
1,1-Dichloroethene	< 0.50		0.50	J	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA	NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA	NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA	NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA	NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA	NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA	NA		NA		NA	
Carbon tetrachloride	< 0.50		2.8	J	< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA	NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA	NA		NA		NA	
Chloroform	0.26	F	0.28	F	0.46	F	0.19	F	0.50	0.081	F	< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	0.90	J	0.75		1.0	J	< 0.50		< 0.50	< 0.50	UJ	< 0.50	UJ	< 0.50	UJ
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA	NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA	NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA	NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA	NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA	NA		NA		NA	
Tetrachloroethene	< 0.50		< 0.50	UJ	0.49	F	0.31	F	< 0.50	0.32	F	< 0.50		< 0.50	
Toluene	NA		NA		NA		NA		NA	NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA	NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA	NA		NA		NA	
Trichloroethene	5.3	M	6.9	J	10	M	0.64		< 0.50	2.2	M	< 0.50		< 0.50	
Trichlorofluoromethane	NA		NA		NA		NA		NA	NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA	NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 28 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-261		MAFB-263		MAFB-264		MAFB-265		MAFB-265 (FD)		MAFB-266		MAFB-267		MAFB-268	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		0.57		0.66	J	< 0.50	UJ	< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		2.7		2.9	J	< 0.50	UJ	< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	0.10	F	0.34	F	0.49	F	0.56		0.46	F	0.35	F	< 0.50		0.27	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		1.5		0.84		0.77		0.43	F	< 0.50	UJ	< 0.50	UJ
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	0.70		0.29	F	0.72		2.6	J	1.4	J	2.6		< 0.50		0.81	
Toluene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	< 0.50		< 0.50		15		17	J	12	J	6.9		< 0.50		2.8	
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 29 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-269	MAFB-270		MAFB-273		MAFB-274		MAFB-282		MAFB-284		MAFB-285		MAFB-288	
1,1,1-Trichloroethane	NA	NA		NA		NA		NA		< 1.0		NA		NA	
1,1,2,2-Tetrachloroethane	NA	NA		NA		NA		NA		< 1.0		NA		NA	
1,1,2-Trichloroethane	NA	NA		NA		NA		NA		< 1.0		NA		NA	
1,1-Dichloroethane	NA	NA		NA		NA		NA		< 1.0		NA		NA	
1,1-Dichloroethene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA	NA		NA		NA		NA		< 2.0		NA		NA	
1,2-Dichloroethane	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	M	< 1.0	
1,3-Dichlorobenzene	NA	NA		NA		NA		NA		< 3.0		NA		NA	
1,4-Dichlorobenzene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA	NA		NA		NA		NA		< 0.50		NA		NA	
Bromodichloromethane	NA	NA		NA		NA		NA		< 1.0		NA		NA	
Bromoform	NA	NA		NA		NA		NA		< 2.0		NA		NA	
Bromomethane	NA	NA		NA		NA		NA		< 10		NA		NA	
Carbon tetrachloride	< 0.50	< 0.50	UJ	< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50		< 0.50	
Chlorobenzene	NA	NA		NA		NA		NA		< 2.5		NA		NA	
Chloroethane	NA	NA		NA		NA		NA		< 5.0		NA		NA	
Chloroform	< 0.50	< 0.50		0.12	F	0.17	F	0.38	F	< 0.50		< 0.50	M	< 0.50	
Chloromethane	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.64	
cis-1,3-Dichloropropene	NA	NA		NA		NA		NA		< 1.0	M	NA		NA	
Dibromochloromethane	NA	NA		NA		NA		NA		< 1.0		NA		NA	
Dichlorodifluoromethane	NA	NA		NA		NA		NA		< 4.0		NA		NA	
Ethylbenzene	NA	NA		NA		NA		NA		< 1.0		NA		NA	
Methylene chloride	NA	NA		NA		NA		NA		< 2.0		NA		NA	
Tetrachloroethene	< 0.50	< 0.50	UJ	< 0.50		1.1		0.77	J	0.52		0.57		0.71	
Toluene	NA	NA		NA		NA		NA		< 1.0		NA		NA	
trans-1,2-Dichloroethene	NA	NA		NA		NA		NA		< 1.0		NA		NA	
trans-1,3-Dichloropropene	NA	NA		NA		NA		NA		< 1.0	M	NA		NA	
Trichloroethene	< 0.50	< 0.50		< 0.50		< 0.50		8.8	J	2.4		< 0.50		< 0.50	
Trichlorofluoromethane	NA	NA		NA		NA		NA		< 1.0		NA		NA	
Vinyl chloride	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA	NA		NA		NA		NA		< 1.0		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 30 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-290	MAFB-291	MAFB-292	MAFB-292 (FD)	MAFB-293		MAFB-294		MAFB-296		MAFB-297	
1,1,1-Trichloroethane	NA	NA	NA	NA	NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA		NA		NA		NA	
1,1,2-Trichloroethane	NA	NA	NA	NA	NA		NA		NA		NA	
1,1-Dichloroethane	NA	NA	NA	NA	NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	UJ	< 0.50		< 0.50	
1,2-Dichlorobenzene	NA	NA	NA	NA	NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	UJ	< 0.50		< 0.50	M
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	UJ	< 1.0		< 1.0	M
1,3-Dichlorobenzene	NA	NA	NA	NA	NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	UJ	< 0.50		< 0.50	
Benzene	NA	NA	NA	NA	NA		NA		NA		NA	
Bromodichloromethane	NA	NA	NA	NA	NA		NA		NA		NA	
Bromoform	NA	NA	NA	NA	NA		NA		NA		NA	
Bromomethane	NA	NA	NA	NA	NA		NA		NA		NA	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	UJ	< 0.50	UJ	1.0	J	< 0.50	
Chlorobenzene	NA	NA	NA	NA	NA		NA		NA		NA	
Chloroethane	NA	NA	NA	NA	NA		NA		NA		NA	
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	0.18	F	0.26	FJ	0.20	F	< 0.50	M
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	UJ	< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	UJ	< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA		NA		NA		NA	
Dibromochloromethane	NA	NA	NA	NA	NA		NA		NA		NA	
Dichlorodifluoromethane	NA	NA	NA	NA	NA		NA		NA		NA	
Ethylbenzene	NA	NA	NA	NA	NA		NA		NA		NA	
Methylene chloride	NA	NA	NA	NA	NA		NA		NA		NA	
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	0.16	FJ	< 0.50	UJ	5.1	J	< 0.50	
Toluene	NA	NA	NA	NA	NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA		NA		NA		NA	
Trichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		0.82	J	< 0.50		< 0.50	
Trichlorofluoromethane	NA	NA	NA	NA	NA		NA		NA		NA	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	UJ	< 0.50		< 0.50	
Xylenes, total	NA	NA	NA	NA	NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 31 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-300		MAFB-301	MAFB-301 (FD)	MAFB-302	MAFB-306	MAFB-308	MAFB-311		MAFB-312	
1,1,1-Trichloroethane	NA		NA	NA	NA	NA	NA	NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA	NA	NA	NA	NA	NA		NA	
1,1,2-Trichloroethane	NA		NA	NA	NA	NA	NA	NA		NA	
1,1-Dichloroethane	NA		NA	NA	NA	NA	NA	NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA	NA	NA	NA	NA	NA		NA	
1,2-Dichloroethane	< 0.50	M	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0	M	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA	NA	NA	NA	NA	NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Benzene	NA		NA	NA	NA	NA	NA	NA		NA	
Bromodichloromethane	NA		NA	NA	NA	NA	NA	NA		NA	
Bromoform	NA		NA	NA	NA	NA	NA	NA		NA	
Bromomethane	NA		NA	NA	NA	NA	NA	NA		NA	
Carbon tetrachloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	UJ	< 0.50	UJ
Chlorobenzene	NA		NA	NA	NA	NA	NA	NA		NA	
Chloroethane	NA		NA	NA	NA	NA	NA	NA		NA	
Chloroform	< 0.50	M	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA	NA	NA	NA	NA	NA		NA	
Dibromochloromethane	NA		NA	NA	NA	NA	NA	NA		NA	
Dichlorodifluoromethane	NA		NA	NA	NA	NA	NA	NA		NA	
Ethylbenzene	NA		NA	NA	NA	NA	NA	NA		NA	
Methylene chloride	NA		NA	NA	NA	NA	NA	NA		NA	
Tetrachloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	1.9	< 0.50	UJ	< 0.50	UJ
Toluene	NA		NA	NA	NA	NA	NA	NA		NA	
trans-1,2-Dichloroethene	NA		NA	NA	NA	NA	NA	NA		NA	
trans-1,3-Dichloropropene	NA		NA	NA	NA	NA	NA	NA		NA	
Trichloroethene	0.26	F	2.7	2.9	< 0.50	1.8	< 0.50	< 0.50		< 0.50	
Trichlorofluoromethane	NA		NA	NA	NA	NA	NA	NA		NA	
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Xylenes, total	NA		NA	NA	NA	NA	NA	NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 32 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-313		MAFB-314		MAFB-314 (a)	MAFB-318		MAFB-320		MAFB-329		MAFB-331	MAFB-332
1,1,1-Trichloroethane	NA		NA		NA	NA		NA		NA		NA	NA
1,1,2,2-Tetrachloroethane	NA		NA		NA	NA		NA		NA		NA	NA
1,1,2-Trichloroethane	NA		NA		NA	NA		NA		NA		NA	NA
1,1-Dichloroethane	NA		NA		NA	NA		NA		NA		NA	NA
1,1-Dichloroethene	< 0.50	UJ	< 0.50		NA	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	NA		NA		NA	NA		NA		NA		NA	NA
1,2-Dichloroethane	< 0.50		< 0.50		NA	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		NA	< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	NA		NA		NA	NA		NA		NA		NA	NA
1,4-Dichlorobenzene	< 0.50		< 0.50		NA	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Benzene	NA		NA		NA	NA		NA		NA		NA	NA
Bromodichloromethane	NA		NA		NA	NA		NA		NA		NA	NA
Bromoform	NA		NA		NA	NA		NA		NA		NA	NA
Bromomethane	NA		NA		NA	NA		NA		NA		NA	NA
Carbon tetrachloride	< 0.50	UJ	0.89		NA	0.65	J	3.7		< 0.50	UJ	< 0.50	< 0.50
Chlorobenzene	NA		NA		NA	NA		NA		NA		NA	NA
Chloroethane	NA		NA		NA	NA		NA		NA		NA	NA
Chloroform	0.42	F	< 0.50		NA	0.16	F	0.22	F	< 0.50		< 0.50	< 0.50
Chloromethane	< 0.50	M	< 0.50		NA	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50		NA	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,3-Dichloropropene	NA		NA		NA	NA		NA		NA		NA	NA
Dibromochloromethane	NA		NA		NA	NA		NA		NA		NA	NA
Dichlorodifluoromethane	NA		NA		NA	NA		NA		NA		NA	NA
Ethylbenzene	NA		NA		NA	NA		NA		NA		NA	NA
Methylene chloride	NA		NA		NA	NA		NA		NA		NA	NA
Tetrachloroethene	1.4	J	93	J	81	2.6	J	34		< 0.50	UJ	< 0.50	2.1
Toluene	NA		NA		NA	NA		NA		NA		NA	NA
trans-1,2-Dichloroethene	NA		NA		NA	NA		NA		NA		NA	NA
trans-1,3-Dichloropropene	NA		NA		NA	NA		NA		NA		NA	NA
Trichloroethene	0.21	FJ	0.65		NA	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Trichlorofluoromethane	NA		NA		NA	NA		NA		NA		NA	NA
Vinyl chloride	< 0.50		< 0.50		NA	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Xylenes, total	NA		NA		NA	NA		NA		NA		NA	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 33 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-339		MAFB-340		MAFB-341		MAFB-342		MAFB-344		MAFB-346Bd		MAFB-346Bs		MAFB-346D	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.59		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	0.14	F	0.20	F	0.20	F	0.34	F	0.25	F	0.14	F	0.30	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	1.9		1.7	J	0.57		0.73	J	0.21	F	0.40	F	4.5		< 0.50	
Toluene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	1.1		0.18	FJ	< 0.50		0.25	FJ	< 0.50		0.23	F	< 0.50		< 0.50	
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 34 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-347		MAFB-348B		MAFB-348Dd		MAFB-348Ds		MAFB-351D		MAFB-352D		MAFB-353		MAFB-354B
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
Benzene	NA		NA		NA		NA		NA		NA		NA		NA
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	UJ	< 0.50		< 0.50
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50		< 0.50	M	< 0.50		< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA
Tetrachloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	UJ	< 0.50		< 0.50
Toluene	NA		NA		NA		NA		NA		NA		NA		NA
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA
Trichloroethene	< 0.50		< 0.50		< 0.50		0.33	F	< 0.50		< 0.50		< 0.50		< 0.50
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 35 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-354D	MAFB-356B	MAFB-357D	MAFB-357D (FD)	MAFB-357Dd	MAFB-357Ds	MAFB-358B	MAFB-358D
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	0.13 F	0.10 F	0.15 F	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	< 0.50	< 0.50	1.4 J	2.1 J	0.22 FJ	< 0.50 UJ	0.41 FJ	12 J
Toluene	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	< 0.50	< 0.50	0.95 J	0.53 J	1.2 J	0.42 FJ	< 0.50 UJ	< 0.50 UJ
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 36 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-359		MAFB-361		MAFB-362		MAFB-363		MAFB-364B		MAFB-364D		MAFB-365B		MAFB-365D	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	M	< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		3.5		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	< 0.50		< 0.50		0.55		0.21	F	0.19	F	< 0.50		0.27	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	UJ	< 0.50	UJ	< 0.50	UJ	< 0.50	UJ
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	0.47	F	1.3		6.2		6.8		16		< 0.50		15		0.24	F
Toluene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	1.1		1.3		4.0		0.51		2.3	M	< 0.50	M	0.94	M	0.18	FM
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 37 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-366B		MAFB-366D		MAFB-366D (FD)		MAFB-367		MAFB-368B		MAFB-368D		MAFB-368D (FD)	MAFB-369	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA	NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA	NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA	NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA	NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA	NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA	NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA	NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA	NA	
Carbon tetrachloride	< 0.50	UJ	3.2	J	3.9	J	< 0.50		1.1		< 0.50		< 0.50	< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA	NA	
Chloroform	0.36	F	0.31	F	0.28	F	< 0.50		0.28	F	< 0.50		< 0.50	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50		< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	UJ
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA	NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA	NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA	NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA	NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA	NA	
Tetrachloroethene	2.4	J	32	J	32	J	< 0.50		5.2		1.3		1.4	0.18	F
Toluene	NA		NA		NA		NA		NA		NA		NA	NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA	NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA	NA	
Trichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	0.23	FM
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA	NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA	NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 38 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-370		MAFB-371C		MAFB-371D		MAFB-372B		MAFB-372D		MAFB-373C		MAFB-373C (FD)		MAFB-373D	
1,1,1-Trichloroethane	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1-Dichloroethane	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		< 2.0		< 2.0		< 2.0		NA		NA		NA	
1,2-Dichloroethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2-Dichloropropane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M
1,3-Dichlorobenzene	NA		NA		< 3.0		< 3.0		< 3.0		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		< 0.50		< 0.50		< 0.50		NA		NA		NA	
Bromodichloromethane	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Bromoform	NA		NA		< 2.0		< 2.0		< 2.0		NA		NA		NA	
Bromomethane	NA		NA		< 10		< 10		< 10		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		< 2.5		< 2.5		< 2.5		NA		NA		NA	
Chloroethane	NA		NA		< 5.0		< 5.0		< 5.0		NA		NA		NA	
Chloroform	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		0.28	F	< 0.50		0.23	F	0.27	F	< 0.50	
cis-1,3-Dichloropropene	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Dibromochloromethane	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		< 4.0		< 4.0		< 4.0		NA		NA		NA	
Ethylbenzene	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Methylene chloride	NA		NA		< 2.0		< 2.0		< 2.0		NA		NA		NA	
Tetrachloroethene	< 0.50		0.16	F	< 0.50		1.6		< 0.50		1.4		1.2		< 0.50	
Toluene	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Trichloroethene	< 0.50		2.5		< 0.50		6.7		< 0.50		10		10		< 0.50	
Trichlorofluoromethane	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		< 1.0		< 1.0		< 1.0		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-374		MAFB-375	MAFB-376	MAFB-376 (FD)	MAFB-377		MAFB-378B		MAFB-378B (FD)	MAFB-378D
1,1,1-Trichloroethane	< 1.0		NA	NA	NA	NA		NA		NA	NA
1,1,2,2-Tetrachloroethane	< 1.0		NA	NA	NA	NA		NA		NA	NA
1,1,2-Trichloroethane	< 1.0		NA	NA	NA	NA		NA		NA	NA
1,1-Dichloroethane	< 1.0		NA	NA	NA	NA		NA		NA	NA
1,1-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	UJ	< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0		NA	NA	NA	NA		NA		NA	NA
1,2-Dichloroethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0		NA	NA	NA	NA		NA		NA	NA
1,4-Dichlorobenzene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50
Benzene	< 0.50		NA	NA	NA	NA		NA		NA	NA
Bromodichloromethane	< 1.0		NA	NA	NA	NA		NA		NA	NA
Bromoform	< 2.0		NA	NA	NA	NA		NA		NA	NA
Bromomethane	< 10		NA	NA	NA	NA		NA		NA	NA
Carbon tetrachloride	< 0.50		< 0.50	< 0.50	< 0.50	2.8	J	< 0.50		< 0.50	< 0.50
Chlorobenzene	< 2.5		NA	NA	NA	NA		NA		NA	NA
Chloroethane	< 5.0		NA	NA	NA	NA		NA		NA	NA
Chloroform	< 0.50		< 0.50	< 0.50	< 0.50	0.3	F	0.28	F	< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	M	< 0.50		< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0		NA	NA	NA	NA		NA		NA	NA
Dibromochloromethane	< 1.0		NA	NA	NA	NA		NA		NA	NA
Dichlorodifluoromethane	< 4.0		NA	NA	NA	NA		NA		NA	NA
Ethylbenzene	< 1.0		NA	NA	NA	NA		NA		NA	NA
Methylene chloride	< 2.0		NA	NA	NA	NA		NA		NA	NA
Tetrachloroethene	0.49	F	0.94	19	19	3.8	J	< 0.50		< 0.50	< 0.50
Toluene	< 1.0		NA	NA	NA	NA		NA		NA	NA
trans-1,2-Dichloroethene	< 1.0		NA	NA	NA	NA		NA		NA	NA
trans-1,3-Dichloropropene	< 1.0		NA	NA	NA	NA		NA		NA	NA
Trichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	3.0	J	< 0.50		< 0.50	< 0.50
Trichlorofluoromethane	< 1.0		NA	NA	NA	NA		NA		NA	NA
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50
Xylenes, total	< 1.0		NA	NA	NA	NA		NA		NA	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 40 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-379B		MAFB-379D		MAFB-380B		MAFB-380B (FD)		MAFB-380D		MAFB-381B		MAFB-381D		MAFB-382B	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		1.3	J
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	0.26	F	< 0.50		0.31	F	0.29	F	0.18	F	0.40	F	< 0.50		0.28	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	1.8		3.0		0.5		0.51		0.25	F	4.0		< 0.50		2.1	J
Toluene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.17	F	< 0.50		< 0.50	
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 41 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-382B (FD)		MAFB-382D		MAFB-383B		MAFB-384B	MAFB-384D		MAFB-385D	MAFB-386D		MAFB-387B
1,1,1-Trichloroethane	NA		NA		NA		NA	NA		NA	< 1.0		NA
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA	NA		NA	< 1.0		NA
1,1,2-Trichloroethane	NA		NA		NA		NA	NA		NA	< 1.0		NA
1,1-Dichloroethane	NA		NA		NA		NA	NA		NA	< 1.0		NA
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50	UJ	< 0.50	< 0.50		< 0.50	< 0.50	UJ	< 0.50
1,2-Dichlorobenzene	NA		NA		NA		NA	NA		NA	< 2.0		NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
1,3-Dichlorobenzene	NA		NA		NA		NA	NA		NA	< 3.0		NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50
Benzene	NA		NA		NA		NA	NA		NA	< 0.50		NA
Bromodichloromethane	NA		NA		NA		NA	NA		NA	< 1.0		NA
Bromoform	NA		NA		NA		NA	NA		NA	< 2.0		NA
Bromomethane	NA		NA		NA		NA	NA		NA	< 10		NA
Carbon tetrachloride	< 0.50	UJ	< 0.50	UJ	< 0.50	UJ	< 0.50	< 0.50		< 0.50	< 0.50	UJ	< 0.50
Chlorobenzene	NA		NA		NA		NA	NA		NA	< 2.5		NA
Chloroethane	NA		NA		NA		NA	NA		NA	< 5.0		NA
Chloroform	< 0.50		< 0.50		< 0.50		0.84	0.12	F	< 0.50	< 0.50		< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50	M	< 0.50	< 0.50		< 0.50	< 0.50	M	< 0.50
cis-1,2-Dichloroethene	< 0.50		0.21	F	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50
cis-1,3-Dichloropropene	NA		NA		NA		NA	NA		NA	< 1.0		NA
Dibromochloromethane	NA		NA		NA		NA	NA		NA	< 1.0		NA
Dichlorodifluoromethane	NA		NA		NA		NA	NA		NA	< 4.0		NA
Ethylbenzene	NA		NA		NA		NA	NA		NA	< 1.0		NA
Methylene chloride	NA		NA		NA		NA	NA		NA	< 2.0		NA
Tetrachloroethene	< 0.50	UJ	< 0.50	UJ	< 0.50	UJ	0.8	0.21	F	< 0.50	< 0.50	UJ	< 0.50
Toluene	NA		NA		NA		NA	NA		NA	< 1.0		NA
trans-1,2-Dichloroethene	NA		NA		NA		NA	NA		NA	< 1.0		NA
trans-1,3-Dichloropropene	NA		NA		NA		NA	NA		NA	< 1.0		NA
Trichloroethene	< 0.50		< 0.50		0.20	FJ	0.72	< 0.50		< 0.50	< 0.50	UJ	< 0.50
Trichlorofluoromethane	NA		NA		NA		NA	NA		NA	< 1.0		NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50
Xylenes, total	NA		NA		NA		NA	NA		NA	< 1.0		NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 42 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-387Dd	MAFB-387Ds		MAFB-388B	MAFB-388Dd		MAFB-388Ds	MAFB-391		MAFB-392		MAFB-393	
1,1,1-Trichloroethane	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
1,1,2,2-Tetrachloroethane	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
1,1,2-Trichloroethane	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
1,1-Dichloroethane	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
1,1-Dichloroethene	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA	< 2.0		NA	< 2.0		NA	< 2.0		NA		< 2.0	
1,2-Dichloroethane	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		0.99	M	< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	0.44	F	< 1.0	M	0.3	F
1,3-Dichlorobenzene	NA	< 3.0		NA	< 3.0		NA	< 3.0	M	NA		< 3.0	M
1,4-Dichlorobenzene	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	M	< 0.50		< 0.50	M
Benzene	NA	< 0.50		NA	< 0.50		NA	< 0.50		NA		< 0.50	
Bromodichloromethane	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
Bromoform	NA	< 2.0		NA	< 2.0		NA	< 2.0		NA		< 2.0	
Bromomethane	NA	< 10		NA	< 10		NA	< 10		NA		< 10	
Carbon tetrachloride	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA	< 2.5		NA	< 2.5		NA	< 2.5		NA		< 2.5	
Chloroethane	NA	< 5.0		NA	< 5.0		NA	< 5.0		NA		< 5.0	
Chloroform	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	M	< 0.50	
Chloromethane	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	0.89		0.73		1.4	
cis-1,3-Dichloropropene	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
Dibromochloromethane	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
Dichlorodifluoromethane	NA	< 4.0		NA	< 4.0		NA	< 4.0		NA		< 4.0	
Ethylbenzene	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
Methylene chloride	NA	0.94 (c)	BF	NA	0.93 (c)	BF	NA	< 2.0		NA		< 2.0	
Tetrachloroethene	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	1.9		1.9		< 0.50	
Toluene	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
trans-1,2-Dichloroethene	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
trans-1,3-Dichloropropene	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
Trichloroethene	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	3.0	M	8.0		2.5	M
Trichlorofluoromethane	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	
Vinyl chloride	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
Xylenes, total	NA	< 1.0		NA	< 1.0		NA	< 1.0		NA		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 43 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-394		MAFB-395		MAFB-395 (FD)		MAFB-396		MAFB-397	MAFB-398	MAFB-398C	MAFB-399
1,1,1-Trichloroethane	< 1.0		NA		NA		NA		NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	< 1.0		NA		NA		NA		NA	NA	NA	NA
1,1,2-Trichloroethane	< 1.0		NA		NA		NA		NA	NA	NA	NA
1,1-Dichloroethane	0.45	F	NA		NA		NA		NA	NA	NA	NA
1,1-Dichloroethene	0.45	F	0.32	F	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0		NA		NA		NA		NA	NA	NA	NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	M	NA		NA		NA		NA	NA	NA	NA
1,4-Dichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50		NA		NA		NA		NA	NA	NA	NA
Bromodichloromethane	< 1.0		NA		NA		NA		NA	NA	NA	NA
Bromoform	< 2.0		NA		NA		NA		NA	NA	NA	NA
Bromomethane	< 10		NA		NA		NA		NA	NA	NA	NA
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5		NA		NA		NA		NA	NA	NA	NA
Chloroethane	< 5.0		NA		NA		NA		NA	NA	NA	NA
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	1.1		0.47	F	0.34	F	< 0.50		< 0.50	0.5	5.9	3.1
cis-1,3-Dichloropropene	< 1.0		NA		NA		NA		NA	NA	NA	NA
Dibromochloromethane	< 1.0		NA		NA		NA		NA	NA	NA	NA
Dichlorodifluoromethane	< 4.0		NA		NA		NA		NA	NA	NA	NA
Ethylbenzene	< 1.0		NA		NA		NA		NA	NA	NA	NA
Methylene chloride	< 2.0		NA		NA		NA		NA	NA	NA	NA
Tetrachloroethene	3.5		2.3		2.2		< 0.50		< 0.50	1.7	3.1	3.2
Toluene	< 1.0		NA		NA		NA		NA	NA	NA	NA
trans-1,2-Dichloroethene	< 1.0		NA		NA		NA		NA	NA	NA	NA
trans-1,3-Dichloropropene	< 1.0		NA		NA		NA		NA	NA	NA	NA
Trichloroethene	24	M	13	M	12	M	0.96	M	< 0.50	0.57	1.1	0.63
Trichlorofluoromethane	< 1.0		NA		NA		NA		NA	NA	NA	NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0		NA		NA		NA		NA	NA	NA	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 44 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-400	MAFB-400 (FD)	MAFB-401	MAFB-401 (FD)	MAFB-402	MAFB-403	MAFB-404	MAFB-405	
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.22	F
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.12	F 0.7	
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
cis-1,2-Dichloroethene	2.0	1.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	
Tetrachloroethene	2.7	2.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.1	
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	
Trichloroethene	0.69	0.59	4.3	3.9	1.9	2.8	1.2	27	
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, total	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 45 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-405 (FD)	MAFB-407		MAFB-408		MAFB-410		MAFB-411		MAFB-411 (FD)		MAFB-412	MAFB-413	
1,1,1-Trichloroethane	NA	NA		NA		NA		NA		NA		NA	< 1.0	
1,1,2,2-Tetrachloroethane	NA	NA		NA		NA		NA		NA		NA	< 1.0	
1,1,2-Trichloroethane	NA	NA		NA		NA		NA		NA		NA	< 1.0	
1,1-Dichloroethane	NA	NA		NA		NA		NA		NA		NA	< 1.0	
1,1-Dichloroethene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichlorobenzene	NA	NA		NA		NA		NA		NA		NA	< 2.0	
1,2-Dichloroethane	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	
1,3-Dichlorobenzene	NA	NA		NA		NA		NA		NA		NA	< 3.0	
1,4-Dichlorobenzene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Benzene	NA	NA		NA		NA		NA		NA		NA	< 0.50	
Bromodichloromethane	NA	NA		NA		NA		NA		NA		NA	< 1.0	
Bromoform	NA	NA		NA		NA		NA		NA		NA	< 2.0	
Bromomethane	NA	NA		NA		NA		NA		NA		NA	< 10	
Carbon tetrachloride	< 0.50	< 0.50		< 0.50		2.6		< 0.50		< 0.50		< 0.50	< 0.50	M
Chlorobenzene	NA	NA		NA		NA		NA		NA		NA	< 2.5	
Chloroethane	NA	NA		NA		NA		NA		NA		NA	< 5.0	
Chloroform	0.67	0.46	F	0.088	F	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Chloromethane	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
cis-1,3-Dichloropropene	NA	NA		NA		NA		NA		NA		NA	< 1.0	M
Dibromochloromethane	NA	NA		NA		NA		NA		NA		NA	< 1.0	
Dichlorodifluoromethane	NA	NA		NA		NA		NA		NA		NA	< 4.0	
Ethylbenzene	NA	NA		NA		NA		NA		NA		NA	< 1.0	
Methylene chloride	NA	NA		NA		NA		NA		NA		NA	< 2.0	
Tetrachloroethene	4.2	0.41	F	< 0.50		0.44	F	2.1		2.4		< 0.50	< 0.50	
Toluene	NA	NA		NA		NA		NA		NA		NA	< 1.0	
trans-1,2-Dichloroethene	NA	NA		NA		NA		NA		NA		NA	< 1.0	
trans-1,3-Dichloropropene	NA	NA		NA		NA		NA		NA		NA	< 1.0	M
Trichloroethene	25	< 0.50		0.49	F	< 0.50		0.35	F	0.38	F	< 0.50	< 0.50	
Trichlorofluoromethane	NA	NA		NA		NA		NA		NA		NA	< 1.0	
Vinyl chloride	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Xylenes, total	NA	NA		NA		NA		NA		NA		NA	< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 46 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-414		MAFB-414 (FD)		MAFB-415		MAFB-417	MAFB-418	MAFB-419		MAFB-420		MAFB-420 (b)	MAFB-422	
1,1,1-Trichloroethane	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
1,1,2-Trichloroethane	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
1,1-Dichloroethane	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	6.8	< 0.50		8.8		NA	< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		NA		< 2.0	NA	< 2.0		NA		NA	NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		0.78	< 0.50	< 0.50		< 0.50		NA	< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		NA	< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		NA		< 3.0	NA	< 3.0		NA		NA	NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		NA	< 0.50	
Benzene	< 0.50		< 0.50		NA		< 0.50	NA	< 0.50		NA		NA	NA	
Bromodichloromethane	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
Bromoform	< 2.0		< 2.0		NA		< 2.0	NA	< 2.0		NA		NA	NA	
Bromomethane	< 10	M	< 10	M	NA		< 10	NA	< 10	M	NA		NA	NA	
Carbon tetrachloride	1.5		1.5		< 0.50		1.9	3.1	< 0.50		0.38	F	NA	< 0.50	
Chlorobenzene	< 2.5		< 2.5		NA		< 2.5	NA	< 2.5		NA		NA	NA	
Chloroethane	< 5.0		< 5.0		NA		< 5.0	NA	< 5.0		NA		NA	NA	
Chloroform	0.41	F	0.42	F	0.17	F	1.8	0.82	< 0.50		0.28	F	NA	0.16	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		NA	< 0.50	M
cis-1,2-Dichloroethene	0.25	F	0.26	F	< 0.50		4.8	0.66	< 0.50		0.81		NA	0.46	F
cis-1,3-Dichloropropene	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
Dibromochloromethane	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
Dichlorodifluoromethane	< 4.0	M	< 4.0	M	NA		< 4.0	NA	< 4.0	M	NA		NA	NA	
Ethylbenzene	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
Methylene chloride	< 2.0		< 2.0		NA		< 2.0	NA	< 2.0		NA		NA	NA	
Tetrachloroethene	2.6	J	3.4	J	0.23	F	2.4	5.3	< 0.50		83		NA	< 0.50	
Toluene	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
trans-1,2-Dichloroethene	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
trans-1,3-Dichloropropene	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
Trichloroethene	6.7		6.4		< 0.50		12	39	< 0.50		270	J	240	1.4	
Trichlorofluoromethane	< 1.0		< 1.0		NA		< 1.0	NA	< 1.0		NA		NA	NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		NA	< 0.50	
Xylenes, total	< 1.0		< 1.0		NA		< 1.0	NA	0.33	F	NA		NA	NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 47 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-423		MAFB-423B		MAFB-423B (FD)		MAFB-424		MAFB-425		MAFB-426		MAFB-427	MAFB-428	
1,1,1-Trichloroethane	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
1,1,2,2-Tetrachloroethane	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
1,1,2-Trichloroethane	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
1,1-Dichloroethane	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		0.98		< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		< 2.0		NA		NA		NA	< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		< 3.0		NA		NA		NA	< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Benzene	NA		NA		NA		< 0.50		NA		NA		NA	< 0.50	
Bromodichloromethane	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
Bromoform	NA		NA		NA		< 2.0		NA		NA		NA	< 2.0	
Bromomethane	NA		NA		NA		< 10		NA		NA		NA	< 10	M
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50	UJ	< 0.50		< 0.50	0.44	F
Chlorobenzene	NA		NA		NA		< 2.5		NA		NA		NA	< 2.5	
Chloroethane	NA		NA		NA		< 5.0		NA		NA		NA	< 5.0	
Chloroform	0.076	F	0.18	F	0.19	F	< 0.50		< 0.50		0.11	F	< 0.50	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	< 0.50		0.81	J	1.2	J	< 0.50		0.63		< 0.50		< 0.50	< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		< 1.0	M	NA		NA		NA	< 1.0	
Dibromochloromethane	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
Dichlorodifluoromethane	NA		NA		NA		< 4.0		NA		NA		NA	< 4.0	M
Ethylbenzene	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
Methylene chloride	NA		NA		NA		< 2.0		NA		NA		NA	< 2.0	
Tetrachloroethene	< 0.50		0.17	F	< 0.50		0.23	F	1.3	J	< 0.50		< 0.50	2.4	
Toluene	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
trans-1,2-Dichloroethene	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	
trans-1,3-Dichloropropene	NA		NA		NA		< 1.0	M	NA		NA		NA	< 1.0	
Trichloroethene	1.4	M	5.3	M	4.5	M	< 0.50		5.1		< 0.50		< 0.50	< 0.50	
Trichlorofluoromethane	NA		NA		NA		18		NA		NA		NA	< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Xylenes, total	NA		NA		NA		< 1.0		NA		NA		NA	< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 48 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-429Bd		MAFB-429Bs		MAFB-429Bs (FD)		MAFB-429Bu		MAFB-430		MAFB-431Bd		MAFB-431Dd		MAFB-431Ds	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	0.58	J	0.4	FJ	0.38	FJ	< 0.50	UJ	< 0.50		0.36	F	< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50	UJ	< 0.50	UJ	< 0.50	UJ	< 0.50	UJ	0.77		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	0.093	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	1.2		0.74		0.72		< 0.50		< 0.50		0.78		0.26	F	0.21	F
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	4.5	J	2.4	J	2.4	J	< 0.50	UJ	3.5		3.2		0.20	F	< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	23	J	13	J	14	J	< 0.50	UJ	< 0.50		16		1.2		0.64	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 49 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-432	MAFB-433	MAFB-433 (FD)	MAFB-434Bd	MAFB-434Bs	MAFB-434Bu	MAFB-434Bu (FD)	MAFB-435		MAFB-437Dd
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0		< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Benzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Bromoform	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Bromomethane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.7		< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.11	F	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	0.82	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0		< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Methylene chloride	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50	3.1	< 0.50	< 0.50	< 0.50	12		< 0.50
Toluene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Trichloroethene	8.0	< 0.50	< 0.50	18	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 50 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-437Ds		MAFB-438		MAFB-439		MAFB-440		MAFB-440P		MAFB-441		MAFB-442		MAFB-443		MAFB-444	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	M
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10	M	< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50	UJ	9.0		< 0.50	M	< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	0.25	F	< 0.50		0.9		< 0.50		0.40	F	< 0.50		< 0.50		< 0.50		< 0.50	M
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	UJ	< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0	M	< 1.0	M	< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0	M	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		0.90 (c)	BF	< 2.0	
Tetrachloroethene	0.94		4.4	J	53	J	0.59		0.53		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		0.21	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0	M	< 1.0	M	< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50		< 0.50		0.23	F	< 0.50		< 0.50		< 0.50	M	< 0.50		< 0.50		1.6	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 51 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-445		MAFB-446		MAFB-446 (FD)		MAFB-447		MAFB-448		MAFB-449Bd		MAFB-449Bs		MAFB-450		MAFB-451	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		0.98	F	0.95	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		1.1		1.0		0.37	F	< 0.50		< 0.50		< 0.50		< 0.50	UJ	< 0.50	
1,2-Dichlorobenzene	< 2.0		0.35	F	0.32	F	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	UJ	< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50	
cis-1,2-Dichloroethene	< 0.50		1.6		1.6		0.21	F	< 0.50		< 0.50	UJ	< 0.50	UJ	< 0.50		0.77	J
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	0.53		9.2		8.6		2.1		1.3		< 0.50		< 0.50		< 0.50	UJ	2.8	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		0.34	F	0.20	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	3.5		53		53		15		8.5		< 0.50		< 0.50		< 0.50	UJ	13	
Trichlorofluoromethane	< 1.0		0.59	F	0.60	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 52 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-452B		MAFB-452Bu		MAFB-453	MAFB-453C	MAFB-454	MAFB-454C	MAFB-455	MAFB-456	MAFB-456C
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	0.55		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10		< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5		< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	0.16	F	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	1.1	J	1.5	J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	8.7		3.8		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	36		12		1.6	0.55	1.0	4.5	< 0.50	0.61	1.1
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-457Bd		MAFB-457Bs		MAFB-457Bs (FD)		MAFB-458Bd		MAFB-458Bs		MAFB-459D		MAFB-459Dd		MBS 39ABuB		MBS EW1ABu	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		1.6	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		NA		NA	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		NA		NA	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		NA		NA	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.25	F	0.23	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	UJ	< 0.50	UJ	0.66	J	0.85	J	0.58	J	< 0.50		< 0.50		< 0.50		0.36	F
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		NA		NA	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		0.89 (c)	BF	0.94 (c)	BF	NA		NA	
Tetrachloroethene	< 0.50		2.1		1.8		1.9		0.63		< 0.50		< 0.50		5.9		19	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Trichloroethene	< 0.50		9.4		10		13	M	4.6	M	< 0.50		< 0.50		0.39	F	68	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 54 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS EW-1B		MBS EW-1Bu		MBS EW-1Bu (FD)		MBS EW-1D		MBS EW2ABu		MBS EW-2AR		MBS EW-2B		MBS EW-2D		MBS EW-3B	
1,1,1-Trichloroethane	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		1.1		0.7		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		< 2.0		NA		< 2.0		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		< 3.0		NA		< 3.0		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		< 0.50		NA		< 0.50		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
Bromoform	NA		NA		NA		< 2.0		NA		< 2.0		NA		NA		NA	
Bromomethane	NA		NA		NA		< 10		NA		< 10		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		7.2		< 0.50		0.70		< 0.50	
Chlorobenzene	NA		NA		NA		< 2.5		NA		< 2.5		NA		NA		NA	
Chloroethane	NA		NA		NA		< 5.0		NA		< 5.0		NA		NA		NA	
Chloroform	0.26	F	< 0.50		< 0.50		0.14	F	0.18	F	0.99		0.32	F	0.37	F	0.25	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	UJ	0.8	J	1.2	J	< 0.50		< 0.50		0.25	F	< 0.50		< 0.50	UJ	< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		< 4.0		NA		< 4.0		NA		NA		NA	
Ethylbenzene	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
Methylene chloride	NA		NA		NA		< 2.0		NA		0.43	F	NA		NA		NA	
Tetrachloroethene	< 0.50		0.59		0.58		42		13		8.0		27		30		14	
Toluene	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	
Trichloroethene	0.79		2.0		1.9		0.61		43		10		6.5		2.3		5.5	
Trichlorofluoromethane	NA		NA		NA		< 1.0		NA		0.24	F	NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		< 1.0		NA		< 1.0		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 55 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS EW-3B (FD)		MBS EW-3Bu		MBS EW-3D		MBS EW-4A		MBS EW4ABu		MBS EW-4B		MBS EW-4Bu		MBS EW-4D		MBS EW5ABu
1,1,1-Trichloroethane	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
1,1,2,2-Tetrachloroethane	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
1,1,2-Trichloroethane	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
1,1-Dichloroethane	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		1.2		< 0.50		0.37	F	< 0.50		6.2
1,2-Dichlorobenzene	NA		< 2.0		NA		NA		NA		NA		< 2.0		< 2.0		NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0
1,3-Dichlorobenzene	NA		< 3.0		NA		NA		NA		NA		< 3.0		< 3.0		NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
Benzene	NA		< 0.50		NA		NA		NA		NA		< 0.50		< 0.50		NA
Bromodichloromethane	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
Bromoform	NA		< 2.0		NA		NA		NA		NA		< 2.0		< 2.0		NA
Bromomethane	NA		< 10	M	NA		NA		NA		NA		< 10	M	< 10		NA
Carbon tetrachloride	< 0.50		< 0.50		0.69		< 0.50		5.6		< 0.50		< 0.50		< 0.50		7.3
Chlorobenzene	NA		< 2.5		NA		NA		NA		NA		< 2.5		< 2.5		NA
Chloroethane	NA		< 5.0		NA		NA		NA		NA		< 5.0		< 5.0		NA
Chloroform	0.25	F	< 0.50		0.26	F	0.15	F	1.2		0.28	F	0.097	F	0.084	F	0.78
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50	UJ	< 0.50		0.38	F	< 0.50		0.57	J	< 0.50		0.6
cis-1,3-Dichloropropene	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
Dibromochloromethane	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
Dichlorodifluoromethane	NA		< 4.0		NA		NA		NA		NA		< 4.0		< 4.0		NA
Ethylbenzene	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
Methylene chloride	NA		0.53	F	NA		NA		NA		NA		0.38	F	< 2.0		NA
Tetrachloroethene	12		0.28	F	56		0.44	F	7.6		5.5		6.0		25		18
Toluene	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
trans-1,2-Dichloroethene	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
trans-1,3-Dichloropropene	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
Trichloroethene	4.9		0.26	F	1.9		< 0.50		20		0.53		18		0.55		68
Trichlorofluoromethane	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50
Xylenes, total	NA		< 1.0		NA		NA		NA		NA		< 1.0		< 1.0		NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 56 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS EW-5B		MBS EW-5D		MBS EW6ABu	MBS EW-6B	MBS EW-6D		MBS EW7ABu		MBS EW-7B		MBS EW-8B		MBS EW-9B	
1,1,1-Trichloroethane	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
1,1,2,2-Tetrachloroethane	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
1,1,2-Trichloroethane	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
1,1-Dichloroethane	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		< 2.0		NA	NA	< 2.0		NA		NA		NA		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		< 3.0		NA	NA	< 3.0		NA		NA		NA		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		< 0.50		NA	NA	< 0.50		NA		NA		NA		< 0.50	
Bromodichloromethane	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
Bromoform	NA		< 2.0		NA	NA	< 2.0		NA		NA		NA		< 2.0	
Bromomethane	NA		< 10	M	NA	NA	< 10	M	NA		NA		NA		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		< 2.5		NA	NA	< 2.5		NA		NA		NA		< 2.5	
Chloroethane	NA		< 5.0		NA	NA	< 5.0		NA		NA		NA		< 5.0	
Chloroform	0.31	F	0.12	F	< 0.50	0.51	< 0.50		0.19	F	0.16	F	0.38	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	UJ	< 0.50		0.60	J
cis-1,3-Dichloropropene	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
Dibromochloromethane	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
Dichlorodifluoromethane	NA		< 4.0		NA	NA	< 4.0		NA		NA		NA		< 4.0	
Ethylbenzene	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
Methylene chloride	NA		0.51	F	NA	NA	0.42	F	NA		NA		NA		0.39	F
Tetrachloroethene	6.3		5.7		1.0	2.6	5.0		2.5		6.1		1.5		2.2	
Toluene	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
trans-1,2-Dichloroethene	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
trans-1,3-Dichloropropene	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
Trichloroethene	< 0.50		< 0.50		0.95	0.34	< 0.50	F	0.26	F	0.33	F	< 0.50		6.0	
Trichlorofluoromethane	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		< 1.0		NA	NA	< 1.0		NA		NA		NA		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 57 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS EW-10B		MBS EW-10B (FD)		MBS EW-11B		MBS EW-12AB		MBS EW-12B		MBS EW-13BuB		MBS PZ-11		MBS PZ-12		MBS PZ-13	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.36	F	< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50	M
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		NA		NA		NA	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA		NA	
Bromomethane	< 10	M	< 10	M	< 10		< 10		< 10		< 10		NA		NA		NA	
Carbon tetrachloride	0.38	F	0.31	F	0.91		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		NA		NA		NA	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		NA		NA		NA	
Chloroform	0.29	F	0.23	F	0.20	F	0.21	F	< 0.50		< 0.50		0.46	F	< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.76		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Dichlorodifluoromethane	< 4.0	M	< 4.0	M	< 4.0		< 4.0		< 4.0		< 4.0		NA		NA		NA	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Methylene chloride	0.57	F	0.45	F	0.42	F	< 2.0		0.49	F	0.43	F	NA		NA		NA	
Tetrachloroethene	17		18		3.7		1.2		0.30	F	3.0		0.44	F	0.46	F	0.99	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Trichloroethene	0.79		0.81		< 0.50		0.39	F	< 0.50		14		< 0.50		< 0.50		< 0.50	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 58 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS PZ-14		MBS PZ-15		MBS PZ-37		MBS PZ-38		MBS PZ-39		MBS PZ-42D		MBS PZ-42D (FD)		MBS PZ-42S		MBS PZ-44	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		< 2.0		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		< 3.0		NA	
1,4-Dichlorobenzene	< 0.50	M	< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M
Benzene	NA		NA		NA		NA		NA		NA		NA		< 0.50		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		< 2.0		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		< 10		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		0.27	F	< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		< 2.5		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		< 5.0		NA	
Chloroform	< 0.50		< 0.50		0.39	F	< 0.50		0.38	F	0.32	F	< 0.50		0.35	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50	UJ	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		< 4.0		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		< 2.0		NA	
Tetrachloroethene	< 0.50		< 0.50		1.7		4.4		3.8		6.4		6.2		3.3		0.64	
Toluene	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
Trichloroethene	< 0.50		< 0.50		< 0.50		0.33	F	< 0.50		< 0.50		< 0.50		< 0.50		1.3	
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		< 1.0		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 59 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS PZ-49D		MBS PZ-50D	MBS PZ-50S		MBS PZ-51		MBS PZ-52		MBS PZ-53	MBS PZ-54		MBS PZ-55B	MBS PZ-55Bu	
1,1,1-Trichloroethane	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
1,1,2,2-Tetrachloroethane	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
1,1,2-Trichloroethane	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
1,1-Dichloroethane	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
1,1-Dichloroethene	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichlorobenzene	NA		NA	NA		< 2.0		NA		< 2.0	NA		NA	NA	
1,2-Dichloroethane	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
1,3-Dichlorobenzene	NA		NA	NA		< 3.0		NA		< 3.0	NA		NA	NA	
1,4-Dichlorobenzene	< 0.50	M	< 0.50	< 0.50		< 0.50	M	< 0.50		< 0.50	< 0.50	M	< 0.50	< 0.50	
Benzene	NA		NA	NA		< 0.50		NA		< 0.50	NA		NA	NA	
Bromodichloromethane	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
Bromoform	NA		NA	NA		< 2.0		NA		< 2.0	NA		NA	NA	
Bromomethane	NA		NA	NA		< 10		NA		< 10	NA		NA	NA	
Carbon tetrachloride	< 0.50		< 0.50	< 0.50		2.0		< 0.50		< 0.50	0.56		< 0.50	< 0.50	
Chlorobenzene	NA		NA	NA		< 2.5		NA		< 2.5	NA		NA	NA	
Chloroethane	NA		NA	NA		< 5.0		NA		< 5.0	NA		NA	NA	
Chloroform	< 0.50		< 0.50	< 0.50		0.31	F	0.12	F	< 0.50	< 0.50		0.50	0.27	F
Chloromethane	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50		0.29	F	< 0.50		< 0.50	< 0.50		< 0.50	1.0	
cis-1,3-Dichloropropene	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
Dibromochloromethane	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
Dichlorodifluoromethane	NA		NA	NA		< 4.0		NA		< 4.0	NA		NA	NA	
Ethylbenzene	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
Methylene chloride	NA		NA	NA		< 2.0		NA		< 2.0	NA		NA	NA	
Tetrachloroethene	< 0.50		< 0.50	110		36		5.4		< 0.50	7.7		5.2	3.5	
Toluene	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
trans-1,2-Dichloroethene	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
trans-1,3-Dichloropropene	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
Trichloroethene	< 0.50		< 0.50	0.25	F	2.7		< 0.50		< 0.50	< 0.50		13	8.5	
Trichlorofluoromethane	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	
Vinyl chloride	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	
Xylenes, total	NA		NA	NA		< 1.0		NA		< 1.0	NA		NA	NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 60 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS PZ-58		OFB-06		OFB-07		OFB-09		OFB-12		OFB-17		OFB-17 (FD)	OFB-24		OFB-39
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA		NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA		NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50
Benzene	NA		NA		NA		NA		NA		NA		NA	NA		NA
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
Bromoform	NA		NA		NA		NA		NA		NA		NA	NA		NA
Bromomethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
Carbon tetrachloride	< 0.50	UJ	< 0.50		< 0.50		< 0.50		0.14	F	< 0.50		< 0.50	< 0.50		< 0.50
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA	NA		NA
Chloroethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	0.36	F	< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA	NA		NA
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA	NA		NA
Methylene chloride	NA		NA		NA		NA		NA		NA		NA	NA		NA
Tetrachloroethene	< 0.50	UJ	< 0.50		0.39	F	0.17	F	< 0.50		< 0.50		< 0.50	0.28	F	< 0.50
Toluene	NA		NA		NA		NA		NA		NA		NA	NA		NA
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA	NA		NA
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA	NA		NA
Trichloroethene	< 0.50		< 0.50		3.7		0.55		3.2		< 0.50		< 0.50	< 0.50		< 0.50
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA	NA		NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50
Xylenes, total	NA		NA		NA		NA		NA		NA		NA	NA		NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 61 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	OFB-40	OFB-43	OFB-46	OFB-47	OFB-48	OFB-53	OFB-53 (FD)	OFB-57		OFB-67	
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	M	< 0.50	M
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	M	< 0.50	M
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	M	< 1.0	M
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Benzene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	M	< 0.50	M
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	M	< 0.50	M
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Toluene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Trichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	M	< 0.50	M
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA		NA	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Xylenes, total	NA	NA	NA	NA	NA	NA	NA	NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	OFB-68		OFB-69		OFB-69 (FD)		OFB-70		OFB-71		OFB-72 06/01/09		OFB-72 06/29/09		OFB-73		OFB-74	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2-Dichloropropane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	0.49	FM	0.35	FM	< 0.50	M	< 0.50	M
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.51		0.52		< 0.50		< 0.50	
Toluene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	3.6	M	3.6	M	< 0.50	M	< 0.50	M
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 63 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	OFB-75		OFB-76		OFB-77		OFB-78		OFB-79		OFB-80		OFB-81		OFB-81 (FD)		OFB-82	
1,1,1-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
1,2-Dichloropropane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
cis-1,2-Dichloroethene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Trichloroethene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
Trichlorofluoromethane	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 64 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

	Analyte (µg/L)	OFB-83		TB-04/02/09		TB-04/13/09	TB-04/14/09	TB-04/15/09	TB-04/16/09		TB-04/17/09	TB-04/20/09
	1,1,1-Trichloroethane	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	1,1,2-Trichloroethane	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	1,1-Dichloroethane	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
M	1,1-Dichloroethene	< 0.50	M	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
	1,2-Dichlorobenzene	NA		0.30	F	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
M	1,2-Dichloroethane	< 0.50	M	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
M	1,2-Dichloropropane	< 1.0	M	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	1,3-Dichlorobenzene	NA		< 3.0		< 3.0	< 3.0	< 3.0	< 3.0		< 3.0	< 3.0
	1,4-Dichlorobenzene	< 0.50		0.34	F	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
	Benzene	NA		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
	Bromodichloromethane	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	Bromoform	NA		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
	Bromomethane	NA		< 10		< 10	< 10	< 10	< 10		< 10	< 10
	Carbon tetrachloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
	Chlorobenzene	NA		< 2.5		< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
	Chloroethane	NA		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0
M	Chloroform	0.34	FM	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
M	Chloromethane	< 0.50	M	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
M	cis-1,2-Dichloroethene	< 0.50	M	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
	cis-1,3-Dichloropropene	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	Dibromochloromethane	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	Dichlorodifluoromethane	NA		< 4.0		< 4.0	< 4.0	< 4.0	< 4.0		< 4.0	< 4.0
	Ethylbenzene	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	Methylene chloride	NA		< 2.0		< 2.0	< 2.0	< 2.0	0.62	F	< 2.0	< 2.0
	Tetrachloroethene	< 0.50		0.17	F	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
	Toluene	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	trans-1,2-Dichloroethene	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	trans-1,3-Dichloropropene	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
M	Trichloroethene	< 0.50	M	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
	Trichlorofluoromethane	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
	Vinyl chloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
	Xylenes, total	NA		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 65 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-04/21/09	TB-04/22/09	TB-04/23/09	TB-04/24/09	TB-04/27/09	TB-04/29/09	TB-04/30/09	TB-05/01/09	TB-05/04/09
1,1,1-Trichloroethane	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	NA	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	NA	NA	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 66 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-05/05/09	TB-05/06/09	TB-05/07/09	TB-05/08/09	TB-05/11/09	TB-05/12/09	TB-05/13/09	TB-05/14/09
1,1,1-Trichloroethane	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10	NA	NA	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	NA	NA	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	NA	NA	< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 67 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-05/18/09	TB-05/19/09	TB-05/20/09	TB-05/21/09	TB-05/22/09	TB-05/26/09	TB-05/27/09	TB-05/28/09	TB-05/29/09
1,1,1-Trichloroethane	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	< 2.0	NA
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	NA	< 3.0	NA	< 3.0	< 3.0	< 3.0	NA
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	NA	< 0.50	NA	< 0.50	< 0.50	< 0.50	NA
Bromodichloromethane	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
Bromoform	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	< 2.0	NA
Bromomethane	< 10	< 10	NA	< 10	NA	< 10	< 10	< 10	NA
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	NA	< 2.5	NA	< 2.5	< 2.5	< 2.5	NA
Chloroethane	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	< 5.0	< 5.0	NA
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
Dibromochloromethane	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
Dichlorodifluoromethane	< 4.0	< 4.0	NA	< 4.0	NA	< 4.0	< 4.0	< 4.0	NA
Ethylbenzene	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
Methylene chloride	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	< 2.0	NA
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
trans-1,2-Dichloroethene	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
trans-1,3-Dichloropropene	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
Trichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 68 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-06/01/09	TB-06/02/09	TB-06/11/09	TB-06/15/09	TB-06/25/09	TB-06/29/09
1,1,1-Trichloroethane	NA	NA	< 1.0	NA	< 1.0	NA
1,1,2,2-Tetrachloroethane	NA	NA	< 1.0	NA	< 1.0	NA
1,1,2-Trichloroethane	NA	NA	< 1.0	NA	< 1.0	NA
1,1-Dichloroethane	NA	NA	< 1.0	NA	< 1.0	NA
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	NA	NA	< 2.0	NA	< 2.0	NA
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	NA	NA	< 3.0	NA	< 3.0	NA
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	NA	NA	< 0.50	NA	< 0.50	NA
Bromodichloromethane	NA	NA	< 1.0	NA	< 1.0	NA
Bromoform	NA	NA	< 2.0	NA	< 2.0	NA
Bromomethane	NA	NA	< 10	NA	< 10	NA
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	NA	NA	< 2.5	NA	< 2.5	NA
Chloroethane	NA	NA	< 5.0	NA	< 5.0	NA
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	NA	NA	< 1.0	NA	< 1.0	NA
Dibromochloromethane	NA	NA	< 1.0	NA	< 1.0	NA
Dichlorodifluoromethane	NA	NA	< 4.0	NA	< 4.0	NA
Ethylbenzene	NA	NA	< 1.0	NA	< 1.0	NA
Methylene chloride	NA	NA	< 2.0	NA	< 2.0	NA
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	NA	NA	< 1.0	NA	< 1.0	NA
trans-1,2-Dichloroethene	NA	NA	< 1.0	NA	< 1.0	NA
trans-1,3-Dichloropropene	NA	NA	< 1.0	NA	< 1.0	NA
Trichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	NA	NA	< 1.0	NA	< 1.0	NA
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	NA	NA	< 1.0	NA	< 1.0	NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution
(c) MB-04/14/09 contained 2.1 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 69 of 1088

TABLE 2-1.2

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/02/09 ACW PTE		04/16/09 ACW PTE	04/16/09 ACW PTI	04/16/09 ACW PTI (FD)	04/30/09 ACW PTE	05/14/09 ACW PTE	05/28/09 ACW PTE	06/11/09 ACW PTE	06/25/09 ACW PTE
1,1,1-Trichloroethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	0.15	F	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0		< 2.0	0.41	F < 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50		< 0.50	5.6	5.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.3

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	04/02/09		04/16/09						04/30/09		05/14/09	
	MBS PTE AF		MBS PTE AF		MBS PTI		MBS PTI (FD)		MBS PTE AF		MBS PTE AF	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	0.16	F	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	0.21 (a)	BF	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10	M	< 10	M	< 10	M	< 10	M	< 10	M	< 10	M
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		0.21	F	< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		0.21	FJ	0.19	FJ	< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		0.52	F	0.47	F	< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		9.4		9.3		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50		< 0.50		4.4		4.5		< 0.50		< 0.50	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 71 of 1088

TABLE 2-1.3

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/02/09	04/16/09			04/30/09	05/14/09
	MBS PTE AF	MBS PTE AF	MBS PTI	MBS PTI (FD)	MBS PTE AF	MBS PTE AF
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
B- Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit

(a) MB-04/09/09 contained 0.44 µg/L of 1,4-dichlorobenzene.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 72 of 1088

TABLE 2-1.3

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	05/28/09 MBS PTE AF		06/11/09 MBS PTE AF		06/25/09 MBS PTE AF	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0	
Bromomethane	< 10	M	< 10	M	< 10	M
Carbon tetrachloride	< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50		< 0.50		< 0.50	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.3

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	05/28/09 MBS PTE AF	06/11/09 MBS PTE AF	06/25/09 MBS PTE AF
Vinyl chloride	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0

Notes:
B- Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit

(a) MB-04/09/09 contained 0.44 µg/L of 1,4-dichlorobenzene.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 74 of 1088

TABLE 2-1.4

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/02/09		04/16/09					04/30/09		05/14/09		05/28/09		06/11/09		06/25/09	
	7-PTE		7-PTE		7-PTI		7-PTI (FD)		7-PTE		7-PTE		7-PTE		7-PTE		7-PTE	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		0.55	F	0.5	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		0.77		0.68		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	0.14	F	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		1.4		1.4		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		0.38	F	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		2.3		2.3		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50	M	< 0.50	M	17	M	16	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 22)

Analyte (μg/L)	MAFB-271		MAFB-319		MAFB-319 (FD)		MAFB-321	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	0.061	F	< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.36	F	0.26	F	0.3	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 22)

Analyte (μg/L)	MAFB-271		MAFB-319		MAFB-319 (FD)		MAFB-321	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.35		0.45		0.44		< 0.20	
Toluene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Trichloroethene	< 0.20		< 0.20		< 0.20		< 0.20	
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Xylenes, total	< 0.50		< 0.50		< 0.50		< 0.50	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 22)

Analyte (µg/L)	MAFB-322		MAFB-323		MAFB-324		MAFB-324 (FD)	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		0.085	F	0.12	F
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.091	F	< 0.50		0.33	F	0.37	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 22)

Analyte (µg/L)	MAFB-322		MAFB-323		MAFB-324		MAFB-324 (FD)	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		0.19	F	0.17	F
Toluene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Trichloroethene	< 0.20		< 0.20		< 0.20		< 0.20	
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Xylenes, total	< 0.50		< 0.50		< 0.50		< 0.50	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 22)

Analyte (μg/L)	MAFB-326		MAFB-327		MAFB-328		MAFB-330	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		0.27	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		0.19	F
cis-1,3-Dichloropropene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 22)

Analyte (μg/L)	MAFB-326		MAFB-327		MAFB-328		MAFB-330	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		0.076	F	0.19	F	0.29	
Toluene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Trichloroethene	< 0.20		< 0.20		< 0.20		0.32	
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Xylenes, total	< 0.50		< 0.50		< 0.50		< 0.50	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 22)

Analyte (μg/L)	MAFB-336		MAFB-337		MAFB-338		MAFB-349	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 22)

Analyte (μg/L)	MAFB-336		MAFB-337		MAFB-338		MAFB-349	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		0.05	F	< 0.20	
Toluene	< 0.50		< 0.50		0.15	F	< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Trichloroethene	0.065	F	< 0.20		< 0.20		< 0.20	
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Xylenes, total	< 0.50		< 0.50		< 0.50		< 0.50	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 22)

Analyte (µg/L)	MB-4		OFB-04 04/28/09		OFB-04 05/26/09		OFB-04 06/30/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20	UJ	0.15	F	< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 22)

Analyte (µg/L)	MB-4		OFB-04 04/28/09	OFB-04 05/26/09	OFB-04 06/30/09	
p-Isopropyltoluene	< 0.50		< 0.50	< 0.50	< 0.50	
sec-Butylbenzene	< 0.50		< 0.50	< 0.50	< 0.50	
Styrene	< 0.50		< 0.50	< 0.50	< 0.50	
t-Butylbenzene	< 0.50		< 0.50	< 0.50	< 0.50	
Tetrachloroethene	< 0.20		< 0.20	< 0.20	0.074	F
Toluene	< 0.50		< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	< 0.50		< 0.50	< 0.50	< 0.50	
Trichloroethene	< 0.20		< 0.20	< 0.20	< 0.20	
Trichlorofluoromethane	< 0.50		< 0.50	< 0.50	< 0.50	
Vinyl chloride	< 0.50	R	< 0.50	< 0.50	< 0.50	
Xylenes, total	< 0.50		< 0.50	< 0.50	< 0.50	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 22)

Analyte (µg/L)	OFB-04M 04/28/09		OFB-04M 05/26/09		OFB-04M 06/30/09		OFB-27	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20	UJ	0.12	F	< 0.20		< 0.20	UJ
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		0.19	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 22)

Analyte (μg/L)	OFB-04M 04/28/09	OFB-04M 05/26/09	OFB-04M 06/30/09	OFB-27	
p-Isopropyltoluene	< 0.50	< 0.50	< 0.50	< 0.50	
sec-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	
Styrene	< 0.50	< 0.50	< 0.50	< 0.50	
t-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	
Tetrachloroethene	< 0.20	< 0.20	< 0.20	< 0.20	
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	
Trichloroethene	< 0.20	< 0.20	< 0.20	0.044	F
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 22)

Analyte (µg/L)	OFB-27 (FD)		OFB-31		OFB-32		OFB-49	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		0.13	F
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		0.13	F
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20	UJ	< 0.20	UJ	< 0.20	UJ	< 0.20	UJ
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.12	F	0.077	F	< 0.50		6.2	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 14 of 22)

Analyte (µg/L)	OFB-27 (FD)	OFB-31		OFB-32	OFB-49
p-Isopropyltoluene	< 0.50	< 0.50		< 0.50	< 0.50
sec-Butylbenzene	< 0.50	< 0.50		< 0.50	< 0.50
Styrene	< 0.50	< 0.50		< 0.50	< 0.50
t-Butylbenzene	< 0.50	< 0.50		< 0.50	< 0.50
Tetrachloroethene	< 0.20	0.10	F	< 0.20	< 0.20
Toluene	< 0.50	< 0.50		< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50		< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50		< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20		< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50		< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50		< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50		< 0.50	< 0.50

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 15 of 22)

Analyte (µg/L)	OFB-51		OFB-51/52I 04/28/09		OFB-51/52I 05/26/09		OFB-51/52I 06/30/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.64	J	0.55	J	0.29		0.35	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.067	F	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		0.065	F	< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 16 of 22)

Analyte (μg/L)	OFB-51	OFB-51/52I 04/28/09	OFB-51/52I 05/26/09	OFB-51/52I 06/30/09
p-Isopropyltoluene	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	< 0.50	< 0.50	< 0.50	< 0.50
t-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 17 of 22)

Analyte (µg/L)	OFB-51/52M 04/28/09		OFB-51/52M 05/26/09		OFB-51/52M 06/30/09		OFB-52	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20	UJ	< 0.20		< 0.20		0.46	J
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.12	F	< 0.50		0.12	F	0.043	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	0.15	F	< 0.50		0.16	F	0.36	F
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 18 of 22)

Analyte (µg/L)	OFB-51/52M 04/28/09	OFB-51/52M 05/26/09	OFB-51/52M 06/30/09	OFB-52	
p-Isopropyltoluene	< 0.50	< 0.50	< 0.50	< 0.50	
sec-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	
Styrene	< 0.50	< 0.50	< 0.50	< 0.50	
t-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	
Tetrachloroethene	< 0.20	< 0.20	< 0.20	0.15	F
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	
Trichloroethene	< 0.20	< 0.20	< 0.20	0.25	
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 19 of 22)

Analyte (µg/L)	OFB-52 (FD)		OFB-54		OFB-56		TB-04/14/09
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50
Benzene	< 0.50		< 0.50		< 0.50		< 0.50
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50
Carbon tetrachloride	< 0.20	UJ	< 0.20	UJ	< 0.20	UJ	< 0.20
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50
cis-1,2-Dichloroethene	0.38	F	< 0.50		< 0.50		< 0.50
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50
Dibromochloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50
Hexachlorobutadiene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 20 of 22)

Analyte (µg/L)	OFB-52 (FD)	OFB-54	OFB-56	TB-04/14/09
p-Isopropyltoluene	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	< 0.50	< 0.50	< 0.50	< 0.50
t-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	0.24	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 21 of 22)

Analyte (µg/L)	TB-04/28/09	TB-06/02/09	TB-06/30/09
1,1,1,2-Tetrachloroethane	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-chloropropane	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	< 0.50	< 0.50	< 0.50
2-Chlorotoluene	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50
Bromobenzene	< 0.50	< 0.50	< 0.50
Bromochloromethane	< 1.0	< 1.0	< 1.0
Bromodichloromethane	< 0.50	< 0.50	< 0.50
Bromoform	< 0.50	< 0.50	< 0.50
Bromomethane	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	< 0.20	< 0.20	< 0.20
Chlorobenzene	< 0.50	< 0.50	< 0.50
Chloroethane	< 1.0	< 1.0	< 1.0
Chloroform	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50
Dibromochloromethane	< 0.50	< 0.50	< 0.50
Dibromomethane	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	< 0.50	< 0.50	< 0.50
Ethylbenzene	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	< 0.50	< 0.50	< 0.50
Isopropylbenzene	< 0.50	< 0.50	< 0.50
Methylene chloride	< 0.50	< 0.50	< 0.50
n-Butylbenzene	< 0.50	< 0.50	< 0.50
n-Propylbenzene	< 0.50	< 0.50	< 0.50
Naphthalene	< 0.50	< 0.50	< 0.50

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 22 of 22)

Analyte (µg/L)	TB-04/28/09	TB-06/02/09	TB-06/30/09
p-Isopropyltoluene	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	< 0.50	< 0.50	< 0.50
Styrene	< 0.50	< 0.50	< 0.50
t-Butylbenzene	< 0.50	< 0.50	< 0.50
Tetrachloroethene	< 0.20	< 0.20	< 0.20
Toluene	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
R - Result is invalid.
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-BV-13	7-EW-1	7-EW-2		7-PZ-37		7-PZ-37P	7-PZ-37P (FD)	7-PZ-38P	MAFB-044
TPH, diesel-range	180	< 50	< 50		< 50		< 50	< 50	< 50	< 50
TPH, gasoline-range	< 50	< 50	13	F	13	F	< 50	< 50	< 50	NA

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 98 of 1088

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-149	MAFB-203	MAFB-284	MAFB-314	MAFB-359	MAFB-372B	MAFB-413	MAFB-414
TPH, diesel-range	< 50	NA	< 50	NA	< 50 M	< 50	< 50	< 50 M
TPH, gasoline-range	< 50	17 F	< 50	35 F	NA	NA	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 99 of 1088

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-417		MAFB-419		MAFB-428		MAFB-439		MBS EW-1D		MBS EW-2AR		TB-04/02/09	TB-04/13/09
TPH, diesel-range	NA		< 50	M	NA		< 50	M	NA		NA		NA	NA
TPH, gasoline-range	9.0	F	< 50		< 50		18	F	14	F	< 50		< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-04/14/09	TB-04/15/09	TB-04/16/09	TB-04/17/09	TB-04/20/09	TB-04/30/09	TB-05/12/09
TPH, diesel-range	NA	NA	NA	NA	NA	NA	NA
TPH, gasoline-range	< 50	< 50	< 50	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 101 of 1088

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-05/13/09	TB-05/14/09	TB-05/21/09	TB-05/26/09	TB-05/28/09	TB-06/11/09	TB-06/25/09
TPH, diesel-range	NA	NA	NA	NA	NA	NA	NA
TPH, gasoline-range	< 50	< 50	< 50	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 102 of 1088

TABLE 2-1.7

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/16/09			
	ACW PTE		ACW PTE (FD)	
TPH, diesel-range	< 50	M	< 50	M

Notes:
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter

There were no analytes detected in associated method blanks.

TABLE 2-1.8

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/16/09					
	MBS PTE AF		MBS PTI		MBS PTI (FD)	
TPH, diesel-range	< 50	M	< 50	M	< 50	M
TPH, gasoline-range	< 50		< 50		< 50	

Notes:
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.9

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/02/09	04/16/09			04/30/09	05/14/09	05/28/09	06/11/09	06/25/09
	7-PTE	7-PTE	7-PTI	7-PTI (FD)	7-PTE	7-PTE	7-PTE	7-PTE	7-PTE
TPH, diesel-range	NA	< 50	< 50	< 50	NA	NA	NA	NA	NA
TPH, gasoline-range	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50

Notes:
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 105 of 1088

TABLE 2-1.10

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8081 - PESTICIDES
USEPA METHOD 8082 - POLYCHLORINATED BIPHENYLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-PZ-37	7-PZ-37P	7-PZ-37P (FD)		MAFB-284	MAFB-413
USEPA 8081						
Aldrin	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Alpha endosulfan	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
alpha-BHC	< 0.10	< 0.10	< 0.10	R	< 0.10	< 0.10
alpha-Chlordane	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Beta endosulfan	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
beta-BHC	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
delta-BHC	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Dieldrin	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Endosulfan sulfate	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Endrin	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Endrin aldehyde	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
gamma-BHC (Lindane)	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
gamma-Chlordane	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Heptachlor	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Heptachlor epoxide	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Methoxychlor	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
p,p'-DDD	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
p,p'-DDE	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
p,p'-DDT	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Toxaphene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0
USEPA 8082						
PCB-1016 (Arochlor 1016)	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
PCB-1221 (Arochlor 1221)	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
PCB-1232 (Arochlor 1232)	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
PCB-1242 (Arochlor 1242)	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
PCB-1248 (Arochlor 1248)	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
PCB-1254 (Arochlor 1254)	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
PCB-1260 (Arochlor 1260)	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter
R - Result is invalid.

There were no analytes detected in associated method blanks.

TABLE 2-1.11

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-PZ-37		7-PZ-37P		7-PZ-37P (FD)		MAFB-284		MAFB-413		MAFB-440		MAFB-440P	
2-Methylnaphthalene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Acenaphthene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Acenaphthylene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Anthracene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Benzo(a)anthracene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Benzo(a)pyrene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Benzo(b)fluoranthene	< 10	M	< 10	M	< 10	M	< 10	M	< 10	M	< 10	M	< 10	M
Benzo(g,h,i)perylene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Benzo(k)fluoranthene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Chrysene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Dibenz(a,h)anthracene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Fluoranthene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Fluorene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Indeno(1,2,3-c,d)pyrene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Naphthalene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Phenanthrene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Pyrene	< 10		< 10		< 10		< 10		< 10		< 10		< 10	

Notes:
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter

There were no analytes detected in associated method blanks.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 11)

Analyte (μg/L)	7-BV-01		7-BV-02		7-BV-02 (FD)		7-BV-04	
USEPA 6010								
Antimony	NA		NA		NA		NA	
Arsenic	NA		NA		NA		NA	
Barium	NA		NA		NA		NA	
Beryllium	NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA	
Calcium	103,000		125,000		126,000		129,000	
Chromium	NA		NA		NA		NA	
Cobalt	NA		NA		NA		NA	
Copper	< 10		< 10		< 10		< 10	
Iron	48.5	F	< 70		< 70		8.7	F
Lead	NA		NA		NA		NA	
Magnesium	55,800		70,900		69,800		72,600	
Manganese	4,360		5.8	F	5.7	F	972	
Nickel	NA		NA		NA		NA	
Selenium	NA		NA		NA		NA	
Silver	NA		NA		NA		NA	
Sodium	28,700		30,100		29,900		30,800	
Vanadium	NA		NA		NA		NA	
Zinc	57.3		< 50		< 50		50.7	
USEPA 6020								
Thallium	NA		NA		NA		NA	
USEPA 7470								
Mercury	NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 μg/L of mercury.
(b) ICB-04/28/09 contained 2.1 μg/L of lead.

There were no analytes detected in associated method blanks except as indicated.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 11)

Analyte (µg/L)	7-BV-06	7-BV-07		7-BV-08		7-BV-13	
USEPA 6010							
Antimony	NA	NA		NA		< 60	
Arsenic	NA	NA		NA		< 5.0	
Barium	NA	NA		NA		82.8	
Beryllium	NA	NA		NA		< 3.0	
Cadmium	NA	NA		NA		< 5.0	
Calcium	85,100	82,900		40,200		NA	
Chromium	NA	NA		NA		< 10	
Cobalt	NA	NA		NA		< 50	
Copper	< 10	< 10		< 10		< 10	
Iron	668	186		11.4	F	NA	
Lead	NA	NA		NA		< 3.0	
Magnesium	49,300	48,600		23,700		NA	
Manganese	5,280	14.9	F	10.4	F	151	
Nickel	NA	NA		NA		2.4	F
Selenium	NA	NA		NA		< 5.0	
Silver	NA	NA		NA		< 10	
Sodium	32,400	25,200		18,200		NA	
Vanadium	NA	NA		NA		4.9	F
Zinc	51.3	< 50		35.3	F	< 50	
USEPA 6020							
Thallium	NA	NA		NA		< 1.0	
USEPA 7470							
Mercury	NA	NA		NA		< 0.20	

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 µg/L of mercury.
(b) ICB-04/28/09 contained 2.1 µg/L of lead.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 11)

Analyte (μg/L)	7-EW-1		7-EW-2		7-PZ-23		7-PZ-24	
USEPA 6010								
Antimony	NA		NA		NA		NA	
Arsenic	NA		NA		NA		NA	
Barium	NA		NA		NA		NA	
Beryllium	NA		NA		NA		NA	
Cadmium	NA		NA		NA		NA	
Calcium	24,500	J	37,400	J	18,900	J	15,900	J
Chromium	NA		NA		NA		NA	
Cobalt	NA		NA		NA		NA	
Copper	2.1	F	1.5	F	< 10		< 10	
Iron	< 70		231		< 70		< 70	
Lead	NA		NA		NA		NA	
Magnesium	13,400	J	17,900	J	11,600	J	9,930	J
Manganese	< 15		< 15		< 15		< 15	
Nickel	NA		NA		NA		NA	
Selenium	NA		NA		NA		NA	
Silver	NA		NA		NA		NA	
Sodium	15,000	J	18,200	J	15,200	J	14,300	J
Vanadium	NA		NA		NA		NA	
Zinc	19	F	44.6	F	< 50		< 50	
USEPA 6020								
Thallium	NA		NA		NA		NA	
USEPA 7470								
Mercury	NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 μg/L of mercury.
(b) ICB-04/28/09 contained 2.1 μg/L of lead.

There were no analytes detected in associated method blanks except as indicated.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 11)

Analyte (μg/L)	7-PZ-25		7-PZ-26		7-PZ-37		7-PZ-37P	
USEPA 6010								
Antimony	NA		NA		< 60		< 60	
Arsenic	NA		NA		< 5.0		< 5.0	
Barium	NA		NA		46.4		75.3	
Beryllium	NA		NA		< 3.0		< 3.0	
Cadmium	NA		NA		< 5.0		< 5.0	
Calcium	29,000	J	30,300	J	NA		NA	
Chromium	NA		NA		27.8		1.4	F
Cobalt	NA		NA		< 50		< 50	
Copper	< 10		< 10		1.0	F	1.0	F
Iron	< 70		< 70		NA		NA	
Lead	NA		NA		< 3.0		< 3.0	
Magnesium	17,300	J	18,600	J	NA		NA	
Manganese	< 15		< 15		29.6	M	3,150	M
Nickel	NA		NA		< 40		8.1	F
Selenium	NA		NA		3.7	F	3.2	F
Silver	NA		NA		< 10		0.28	F
Sodium	18,500	J	19,100	J	NA		NA	
Vanadium	NA		NA		13.0	F	5.2	F
Zinc	< 50		< 50		8.2	F	< 50	
USEPA 6020								
Thallium	NA		NA		0.049	F	0.063	F
USEPA 7470								
Mercury	NA		NA		0.062	F	0.097 (a)	BF

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 μg/L of mercury.
(b) ICB-04/28/09 contained 2.1 μg/L of lead.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 11)

Analyte (μg/L)	7-PZ-37P (FD)		7-PZ-38P		MAFB-005		MAFB-013
USEPA 6010							
Antimony	< 60		< 60		< 60		NA
Arsenic	< 5.0		< 5.0		< 5.0		NA
Barium	74.8		97.4		31.5		NA
Beryllium	< 3.0		< 3.0		< 3.0		NA
Cadmium	< 5.0		< 5.0		< 5.0		NA
Calcium	NA		NA		NA		NA
Chromium	< 10		< 10		13.5		NA
Cobalt	0.78	F	< 50		< 50		NA
Copper	< 10		< 10		1.0	F	NA
Iron	NA		NA		NA		NA
Lead	< 3.0		< 3.0		< 3.0		< 3.0
Magnesium	NA		NA		NA		NA
Manganese	3,090	M	260		28.9		NA
Nickel	8.8	F	5.3	F	10.8	F	NA
Selenium	< 5.0		< 5.0		< 5.0		NA
Silver	< 10		< 10		< 10		NA
Sodium	NA		NA		NA		NA
Vanadium	5.1	F	2.2	F	5.0	F	NA
Zinc	< 50		35.9	F	< 50		NA
USEPA 6020							
Thallium	0.065	F	0.014	F	< 1.0		NA
USEPA 7470							
Mercury	0.13 (a)	BF	< 0.20		< 0.20		NA

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 μg/L of mercury.
(b) ICB-04/28/09 contained 2.1 μg/L of lead.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 11)

Analyte (μg/L)	MAFB-044		MAFB-111		MAFB-112		MAFB-129
USEPA 6010							
Antimony	< 60		< 60		< 60		NA
Arsenic	< 5.0		< 5.0		< 5.0		NA
Barium	102		12.0	F	25.7		NA
Beryllium	< 3.0		< 3.0		< 3.0		NA
Cadmium	< 5.0		< 5.0		< 5.0		NA
Calcium	NA		NA		NA		NA
Chromium	< 10		2.5	F	3.8	F	NA
Cobalt	< 50		< 50		8.6	F	NA
Copper	< 10		0.99	F	< 10		NA
Iron	NA		NA		NA		NA
Lead	< 3.0		< 3.0		< 3.0		NA
Magnesium	NA		NA		NA		NA
Manganese	13.7	FM	7.5	F	797		NA
Nickel	< 40		< 40		61.3		< 40
Selenium	< 5.0		< 5.0		< 5.0		NA
Silver	0.78	F	< 10		< 10		NA
Sodium	NA		NA		NA		NA
Vanadium	4.8	F	10.5	F	6.4	F	NA
Zinc	2.3	F	54.7		< 50		NA
USEPA 6020							
Thallium	0.13	F	0.033	F	< 1.0		NA
USEPA 7470							
Mercury	< 0.20		< 0.20		< 0.20		NA

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 μg/L of mercury.
(b) ICB-04/28/09 contained 2.1 μg/L of lead.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 11)

Analyte (µg/L)	MAFB-131		MAFB-132		MAFB-133		MAFB-133 (FD)	
USEPA 6010								
Antimony	< 60		< 60		< 60		3.1	F
Arsenic	< 5.0		< 5.0		< 5.0		< 5.0	
Barium	95.8		75		21.8		23.9	
Beryllium	< 3.0		< 3.0		< 3.0		< 3.0	
Cadmium	0.51	F	< 5.0		< 5.0		< 5.0	
Calcium	NA		NA		NA		NA	
Chromium	41		22.8		2.1	F	5.0	F
Cobalt	6.0	F	17.4	F	< 50		1.6	F
Copper	11.8		< 10		< 10		1.1	F
Iron	NA		NA		NA		NA	
Lead	< 3.0		< 3.0		< 3.0		< 3.0	
Magnesium	NA		NA		NA		NA	
Manganese	379		405		< 15		< 15	
Nickel	33.1	F	401		4.6	F	6.4	F
Selenium	< 5.0		< 5.0		< 5.0		< 5.0	
Silver	0.63	F	< 10		< 10		1.0	F
Sodium	NA		NA		NA		NA	
Vanadium	23.4	F	1.8	F	6.9	F	10.1	F
Zinc	7.7	F	< 50		< 50		< 50	
USEPA 6020								
Thallium	< 1.0		< 1.0		< 1.0		< 1.0	
USEPA 7470								
Mercury	< 0.20		< 0.20		< 0.20		< 0.20	

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 µg/L of mercury.
(b) ICB-04/28/09 contained 2.1 µg/L of lead.

There were no analytes detected in associated method blanks except as indicated.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 11)

Analyte (µg/L)	MAFB-136		MAFB-140		MAFB-149		MAFB-202
USEPA 6010							
Antimony	< 60		NA		< 60		NA
Arsenic	< 5.0		NA		< 5.0		NA
Barium	92.2		NA		28.6		NA
Beryllium	< 3.0		NA		< 3.0		NA
Cadmium	< 5.0		NA		< 5.0		NA
Calcium	NA		NA		NA		NA
Chromium	1.5	F	NA		5.5	F	NA
Cobalt	13.2	F	NA		< 50		NA
Copper	< 10		NA		< 10		NA
Iron	NA		NA		NA		NA
Lead	< 3.0		NA		< 3.0		< 3.0
Magnesium	NA		NA		NA		NA
Manganese	366		NA		< 15	M	NA
Nickel	622		18.3	F	< 40		NA
Selenium	< 5.0		NA		< 5.0		NA
Silver	< 10		NA		1.2	F	NA
Sodium	NA		NA		NA		NA
Vanadium	< 50		NA		12.8	F	NA
Zinc	< 50		NA		< 50		NA
USEPA 6020							
Thallium	< 1.0		NA		0.068	F	NA
USEPA 7470							
Mercury	< 0.20		NA		< 0.20		NA

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 µg/L of mercury.
(b) ICB-04/28/09 contained 2.1 µg/L of lead.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 11)

Analyte (μg/L)	MAFB-284		MAFB-288		MAFB-398		MAFB-398C	
USEPA 6010								
Antimony	< 60		< 60		< 60		< 60	
Arsenic	< 5.0		< 5.0		< 5.0		< 5.0	
Barium	17.7	F	13.5	F	28.6		30.8	
Beryllium	< 3.0		< 3.0		< 3.0		< 3.0	
Cadmium	< 5.0		< 5.0		< 5.0		< 5.0	
Calcium	NA		NA		NA		NA	
Chromium	2.9	F	2.9	F	2.8	F	3.4	F
Cobalt	< 50		< 50		< 50		< 50	
Copper	3.5	F	< 10		1.0	F	< 10	
Iron	NA		NA		NA		NA	
Lead	< 3.0		< 3.0		< 3.0		< 3.0	
Magnesium	NA		NA		NA		NA	
Manganese	< 15	M	< 15		36.2		< 15	
Nickel	< 40		< 40		4.0	F	< 40	
Selenium	< 5.0		< 5.0		< 5.0		< 5.0	
Silver	0.62	F	< 10		< 10		< 10	
Sodium	NA		NA		NA		NA	
Vanadium	12.9	F	9.1	F	6.7	F	7.2	F
Zinc	< 50		56.3		< 50		< 50	
USEPA 6020								
Thallium	0.030	F	< 1.0		< 1.0		< 1.0	
USEPA 7470								
Mercury	0.062	F	< 0.20		< 0.20		< 0.20	

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 μg/L of mercury.
(b) ICB-04/28/09 contained 2.1 μg/L of lead.

There were no analytes detected in associated method blanks except as indicated.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 11)

Analyte (μg/L)	MAFB-399		MAFB-400		MAFB-400 (FD)		MAFB-413	
USEPA 6010								
Antimony	< 60		< 60		< 60		< 60	
Arsenic	< 5.0		< 5.0		< 5.0		< 5.0	
Barium	31.4		76.3		77.5		70.7	
Beryllium	< 3.0		< 3.0		< 3.0		< 3.0	
Cadmium	< 5.0		< 5.0		< 5.0		< 5.0	
Calcium	NA		NA		NA		NA	
Chromium	2.6	F	1.7	F	1.7	F	6.1	F
Cobalt	< 50		< 50		< 50		< 50	
Copper	< 10		< 10		< 10		2.4	F
Iron	NA		NA		NA		NA	
Lead	< 3.0		2.0 (b)	BF	< 3.0		< 3.0	
Magnesium	NA		NA		NA		NA	
Manganese	< 15		< 15		< 15		< 15	M
Nickel	< 40		< 40		< 40		< 40	
Selenium	< 5.0		< 5.0		< 5.0		< 5.0	
Silver	< 10		< 10		< 10		0.36	F
Sodium	NA		NA		NA		NA	
Vanadium	10.7	F	5.4	F	5.5	F	10.6	F
Zinc	< 50		60.5		57.8		< 50	
USEPA 6020								
Thallium	< 1.0		0.024	F	< 1.0		0.055	F
USEPA 7470								
Mercury	< 0.20		< 0.20		< 0.20		< 0.20	

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 μg/L of mercury.
(b) ICB-04/28/09 contained 2.1 μg/L of lead.

There were no analytes detected in associated method blanks except as indicated.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 11)

Analyte (μg/L)	MAFB-424		MAFB-439	MAFB-440		MAFB-440P	
USEPA 6010							
Antimony	< 60		NA	< 60		< 60	
Arsenic	< 5.0		NA	< 5.0		< 5.0	
Barium	41.5		NA	7.3	F	110	
Beryllium	< 3.0		NA	< 3.0		< 3.0	
Cadmium	< 5.0		NA	< 5.0		< 5.0	
Calcium	NA		NA	NA		NA	
Chromium	6.4	F	NA	5.9	F	2.4	F
Cobalt	< 50		NA	< 50		< 50	
Copper	1.4	F	NA	< 10		< 10	
Iron	NA		NA	NA		NA	
Lead	< 3.0		< 3.0	< 3.0		< 3.0	
Magnesium	NA		NA	NA		NA	
Manganese	< 15	M	NA	< 15		5.9	F
Nickel	< 40		NA	< 40		1.4	F
Selenium	< 5.0		NA	< 5.0		< 5.0	
Silver	0.70	F	NA	< 10		< 10	
Sodium	NA		NA	NA		NA	
Vanadium	12.8	F	NA	10.3	F	4.9	F
Zinc	< 50		NA	< 50		< 50	
USEPA 6020							
Thallium	0.051	F	NA	< 1.0		< 1.0	
USEPA 7470							
Mercury	0.085	F	NA	< 0.20		< 0.20	

Notes:
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
F - Result below RL.
FD - Field Duplicate
ICB - Initial Calibration Blank
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

(a) CCB-04/21/09 contained 0.11 μg/L of mercury.
(b) ICB-04/28/09 contained 2.1 μg/L of lead.

There were no analytes detected in associated method blanks except as indicated.

TABLE 2-1.13

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/16/09 ACW PTE		ACW PTI		ACW PTI (FD)	
USEPA 6010						
Calcium	10,100	J	10,100	J	9,740	J
Copper	< 10		< 10		< 10	
Iron	< 70		< 70		< 70	
Magnesium	5,310	J	5,320	J	5,100	J
Manganese	< 15		< 15		< 15	
Sodium	10,500	J	10,500	J	10,000	J
Zinc	< 50		5.0	F	2.7	F

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.14

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/16/09					
	MBS PTE AF		MBS PTI		MBS PTI (FD)	
USEPA 6010						
Antimony	< 60		< 60		< 60	
Arsenic	< 5.0		< 5.0		< 5.0	
Barium	58.3		58.7		59.5	
Beryllium	< 3.0		< 3.0		< 3.0	
Cadmium	< 5.0		< 5.0		< 5.0	
Chromium	4.9	F	5.0	F	5.0	F
Cobalt	< 50		< 50		< 50	
Copper	1.4	F	< 10		1.8	F
Lead	< 3.0		< 3.0		< 3.0	
Manganese	< 15		< 15		< 15	
Nickel	< 40		< 40		< 40	
Selenium	< 5.0		3.2	F	< 5.0	
Silver	1.0	F	0.84	F	0.80	F
Vanadium	10.1	F	10.4	F	10.7	F
Zinc	50.0		9.1	F	11.1	F
USEPA 6020						
Thallium	0.055	F	0.059	F	0.088	F
USEPA 7470						
Mercury	< 0.20		< 0.20		< 0.20	

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.15

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	04/16/09					
	7-PTE		7-PTI		7-PTI (FD)	
USEPA 6010						
Calcium	32,100	J	31,700	J	31,300	J
Copper	1.6	F	< 10		< 10	
Iron	< 70		< 70		< 70	
Magnesium	16,200	J	15,900	J	15,700	J
Manganese	< 15		< 15		< 15	
Sodium	17,100	J	16,800	J	16,600	J
Zinc	48.4	F	< 50		10.2	F

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 11)

Analyte (mg/L)	7-BV-01		7-BV-01 (a)	7-BV-02		7-BV-02 (b)
SM 2320						
Total Alkalinity	381		NA	455		NA
Alkalinity, bicarbonate	381		NA	455		NA
Alkalinity, carbonate	< 1.0		NA	< 1.0		NA
Alkalinity, hydroxide	< 1.0		NA	< 1.0		NA
USEPA 130.2						
Hardness as CaCO3	189		NA	534		NA
USEPA 160.1						
Total Filterable Residue	660		NA	807		NA
USEPA 300.0						
Chloride	10.6		NA	10.2		NA
Nitrate (as N)	1.0		NA	2.4		NA
Sulfate	221	J	183	264	J	210
USEPA 340.2						
Fluoride	NA		NA	NA		NA
USEPA 376.1						
Sulfide, total	NA		NA	NA		NA
USEPA 7196						
Hexavalent Chromium	NA		NA	NA		NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 11)

Analyte (mg/L)	7-BV-02 (FD)		7-BV-02 (FD) (b)		7-BV-04		7-BV-04 (b)	
SM 2320								
Total Alkalinity	480		NA		488		NA	
Alkalinity, bicarbonate	480		NA		488		NA	
Alkalinity, carbonate	< 1.0		NA		< 1.0		NA	
Alkalinity, hydroxide	< 1.0		NA		< 1.0		NA	
USEPA 130.2								
Hardness as CaCO3	506		NA		570		NA	
USEPA 160.1								
Total Filterable Residue	803		NA		813		NA	
USEPA 300.0								
Chloride	9.9		NA		33.5		NA	
Nitrate (as N)	2.3		NA		2.0		NA	
Sulfate	265	J	211		265	J	207	
USEPA 340.2								
Fluoride	NA		NA		NA		NA	
USEPA 376.1								
Sulfide, total	NA		NA		NA		NA	
USEPA 7196								
Hexavalent Chromium	NA		NA		NA		NA	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 11)

Analyte (mg/L)	7-BV-06		7-BV-06 (a)		7-BV-07		7-BV-07 (a)	
SM 2320								
Total Alkalinity	305		NA		240		NA	
Alkalinity, bicarbonate	305		NA		240		NA	
Alkalinity, carbonate	< 1.0		NA		< 1.0		NA	
Alkalinity, hydroxide	< 1.0		NA		< 1.0		NA	
USEPA 130.2								
Hardness as CaCO3	365		NA		361		NA	
USEPA 160.1								
Total Filterable Residue	608		NA		570		NA	
USEPA 300.0								
Chloride	21.5		NA		7.5		NA	
Nitrate (as N)	5.5		NA		7.4		NA	
Sulfate	199	J	165		195	J	164	
USEPA 340.2								
Fluoride	NA		NA		NA		NA	
USEPA 376.1								
Sulfide, total	NA		NA		NA		NA	
USEPA 7196								
Hexavalent Chromium	NA		NA		NA		NA	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 11)

Analyte (mg/L)	7-BV-08		7-BV-08 (a)	7-BV-13	7-EW-1
SM 2320					
Total Alkalinity	164		NA	NA	129
Alkalinity, bicarbonate	164		NA	NA	129
Alkalinity, carbonate	< 1.0		NA	NA	< 1.0
Alkalinity, hydroxide	< 1.0		NA	NA	< 1.0
USEPA 130.2					
Hardness as CaCO3	201		NA	NA	113
USEPA 160.1					
Total Filterable Residue	337		NA	NA	210
USEPA 300.0					
Chloride	8.3		NA	NA	8.8
Nitrate (as N)	8.0		NA	NA	2.8
Sulfate	63.2	J	56.6	NA	10.2
USEPA 340.2					
Fluoride	NA		NA	NA	NA
USEPA 376.1					
Sulfide, total	NA		NA	NA	NA
USEPA 7196					
Hexavalent Chromium	NA		NA	< 0.020	NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 11)

Analyte (mg/L)	7-EW-2	7-PZ-23	7-PZ-24	7-PZ-25
SM 2320				
Total Alkalinity	183	101	80.2	149
Alkalinity, bicarbonate	183	101	80.2	149
Alkalinity, carbonate	< 1.0	< 1.0	< 1.0	< 1.0
Alkalinity, hydroxide	< 1.0	< 1.0	< 1.0	< 1.0
USEPA 130.2				
Hardness as CaCO3	130	80.4	60.3	121
USEPA 160.1				
Total Filterable Residue	264	178	168	227
USEPA 300.0				
Chloride	8.7	7.3	7.0	9.1
Nitrate (as N)	1.9	2.5	2.6	2.4
Sulfate	27.2	10.2	9.0	18.6
USEPA 340.2				
Fluoride	NA	NA	NA	NA
USEPA 376.1				
Sulfide, total	NA	NA	NA	NA
USEPA 7196				
Hexavalent Chromium	NA	NA	NA	NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 11)

Analyte (mg/L)	7-PZ-26	7-PZ-37	7-PZ-37P	7-PZ-37P (FD)
SM 2320				
Total Alkalinity	154	NA	NA	NA
Alkalinity, bicarbonate	154	NA	NA	NA
Alkalinity, carbonate	< 1.0	NA	NA	NA
Alkalinity, hydroxide	< 1.0	NA	NA	NA
USEPA 130.2				
Hardness as CaCO3	125	NA	NA	NA
USEPA 160.1				
Total Filterable Residue	235	NA	NA	NA
USEPA 300.0				
Chloride	9.1	NA	NA	NA
Nitrate (as N)	2.2	NA	NA	NA
Sulfate	20.4	NA	NA	NA
USEPA 340.2				
Fluoride	NA	NA	NA	NA
USEPA 376.1				
Sulfide, total	NA	NA	NA	NA
USEPA 7196				
Hexavalent Chromium	NA	0.027	< 0.020	< 0.020

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 11)

Analyte (mg/L)	7-PZ-38P	MAFB-005	MAFB-044	MAFB-111
SM 2320				
Total Alkalinity	NA	71.2	NA	63.3
Alkalinity, bicarbonate	NA	71.2	NA	63.3
Alkalinity, carbonate	NA	< 1.0	NA	< 1.0
Alkalinity, hydroxide	NA	NA	NA	NA
USEPA 130.2				
Hardness as CaCO3	NA	NA	NA	NA
USEPA 160.1				
Total Filterable Residue	NA	179	NA	126
USEPA 300.0				
Chloride	NA	15.4	NA	3.8
Nitrate (as N)	NA	NA	NA	NA
Sulfate	NA	5.4	NA	6.8
USEPA 340.2				
Fluoride	NA	0.42	NA	0.19
USEPA 376.1				
Sulfide, total	NA	< 0.20	NA	< 0.20
USEPA 7196				
Hexavalent Chromium	< 0.020	NA	< 0.020	NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 11)

Analyte (mg/L)	MAFB-112		MAFB-131	MAFB-132	MAFB-133
SM 2320					
Total Alkalinity	75.5		46.8	235	93.8
Alkalinity, bicarbonate	75.5		46.8	235	93.8
Alkalinity, carbonate	< 1.0		< 1.0	< 1.0	< 1.0
Alkalinity, hydroxide	NA		NA	NA	NA
USEPA 130.2					
Hardness as CaCO3	NA		NA	NA	NA
USEPA 160.1					
Total Filterable Residue	155		183	356	175
USEPA 300.0					
Chloride	7.5		6.1	45.6	4.0
Nitrate (as N)	NA		NA	NA	NA
Sulfate	8.8		15.5	4.6	8.1
USEPA 340.2					
Fluoride	< 0.10		0.16	0.28	0.22
USEPA 376.1					
Sulfide, total	< 0.20	UJ	< 0.20	< 0.20	< 0.20
USEPA 7196					
Hexavalent Chromium	NA		NA	NA	NA

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 11)

Analyte (mg/L)	MAFB-133 (FD)	MAFB-136	MAFB-149	MAFB-284
SM 2320				
Total Alkalinity	94.3	137	NA	NA
Alkalinity, bicarbonate	94.3	137	NA	NA
Alkalinity, carbonate	< 1.0	< 1.0	NA	NA
Alkalinity, hydroxide	NA	NA	NA	NA
USEPA 130.2				
Hardness as CaCO3	NA	NA	NA	NA
USEPA 160.1				
Total Filterable Residue	171	307	NA	NA
USEPA 300.0				
Chloride	4.0	45.2	NA	NA
Nitrate (as N)	NA	NA	NA	NA
Sulfate	8.1	13.4	NA	NA
USEPA 340.2				
Fluoride	0.22	0.28	NA	NA
USEPA 376.1				
Sulfide, total	< 0.20	< 0.20	NA	NA
USEPA 7196				
Hexavalent Chromium	NA	NA	< 0.020	< 0.020

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 11)

Analyte (mg/L)	MAFB-288	MAFB-398	MAFB-398C	MAFB-399	
SM 2320					
Total Alkalinity	48.8	95.4	52.9	49.8	
Alkalinity, bicarbonate	48.8	95.4	52.9	49.8	
Alkalinity, carbonate	< 1.0	< 1.0	< 1.0	< 1.0	
Alkalinity, hydroxide	NA	NA	NA	NA	
USEPA 130.2					
Hardness as CaCO3	NA	NA	NA	NA	
USEPA 160.1					
Total Filterable Residue	116	204	137	148	
USEPA 300.0					
Chloride	3.8	7.7	7.4	5.0	
Nitrate (as N)	NA	NA	NA	NA	
Sulfate	4.5	9.4	2.4	4.1	
USEPA 340.2					
Fluoride	0.25	0.17	0.24	< 0.10	
USEPA 376.1					
Sulfide, total	< 0.20	< 0.20	< 0.20	< 0.20	UJ
USEPA 7196					
Hexavalent Chromium	NA	NA	NA	NA	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 11)

Analyte (mg/L)	MAFB-400	MAFB-400 (FD)	MAFB-413	MAFB-424	
SM 2320					
Total Alkalinity	128	123	NA	47.7	
Alkalinity, bicarbonate	128	123	NA	47.7	
Alkalinity, carbonate	< 1.0	< 1.0	NA	< 1.0	
Alkalinity, hydroxide	NA	NA	NA	NA	
USEPA 130.2					
Hardness as CaCO3	NA	NA	NA	NA	
USEPA 160.1					
Total Filterable Residue	250	215	NA	114	
USEPA 300.0					
Chloride	28.6	28.3	NA	3.3	
Nitrate (as N)	NA	NA	NA	NA	
Sulfate	7.0	6.9	NA	6.6	
USEPA 340.2					
Fluoride	0.13	0.11	NA	0.043	F
USEPA 376.1					
Sulfide, total	< 0.20	< 0.20	NA	< 0.20	
USEPA 7196					
Hexavalent Chromium	NA	NA	< 0.020	< 0.020	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution
(b) Ten fold dilution

There were no analytes detected in associated method blanks.

TABLE 2-1.17

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	04/16/09			
		ACW PTE	ACW PTE (FD)	ACW PTI	ACW PTI (FD)
SM 2320					
Total Alkalinity	mg/L	59.7	NA	58.4	55.1
Alkalinity, bicarbonate	mg/L	59.7	NA	58.4	55.1
Alkalinity, carbonate	mg/L	< 1.0	NA	< 1.0	< 1.0
Alkalinity, hydroxide	mg/L	< 1.0	NA	< 1.0	< 1.0
USEPA 130.2					
Hardness as CaCO3	mg/L	32.2	NA	24.1	28.2
USEPA 160.1					
Total Filterable Residue	mg/L	132	NA	132	131
USEPA 300.0					
Chloride	mg/L	3.6	NA	3.6	3.6
Nitrate (as N)	mg/L	2.7	NA	2.7	2.7
Sulfate	mg/L	2.2	NA	2.2	2.2
USEPA 314.0					
Perchlorate	µg/L	< 3.0	< 3.0	NA	NA

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Not Applicable

There were no analytes detected in associated method blanks.

TABLE 2-1.18

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	04/16/09			
		MBS PTE AF	MBS PTE AF (FD)	MBS PTI	MBS PTI (FD)
SM 2320					
Total Alkalinity	mg/L	119	NA	113	110
Alkalinity, bicarbonate	mg/L	119	NA	113	110
Alkalinity, carbonate	mg/L	< 1.0	NA	< 1.0	< 1.0
Alkalinity, hydroxide	mg/L	< 1.0	NA	< 1.0	< 1.0
USEPA 130.2					
Hardness as CaCO3	mg/L	80.0	NA	72.4	85
USEPA 160.1					
Total Filterable Residue	mg/L	188	NA	197	176
USEPA 160.2					
Total Suspended Solids	mg/L	< 10	NA	< 10	< 10
USEPA 300.0					
Chloride	mg/L	7.2	NA	7.2	7.2
Nitrate (as N)	mg/L	3.2	NA	3.3	3.3
Sulfate	mg/L	10.2	NA	10.0	10.0
USEPA 314.0					
Perchlorate	µg/L	< 3.0	< 3.0	NA	NA

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Not Applicable

There were no analytes detected in associated method blanks.

TABLE 2-1.19

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (mg/L)	04/16/09		
	7-PTE	7-PTI	7-PTI (FD)
SM 2320			
Total Alkalinity	155	175	162
Alkalinity, bicarbonate	155	175	162
Alkalinity, carbonate	< 1.0	< 1.0	< 1.0
Alkalinity, hydroxide	< 1.0	< 1.0	< 1.0
USEPA 130.2			
Hardness as CaCO3	133	130	145
USEPA 160.1			
Total Filterable Residue	236	230	225
USEPA 300.0			
Chloride	8.8	8.7	8.7
Nitrate (as N)	2.3	2.3	2.3
Sulfate	19.2	19.2	19.2

Notes:
FD - Field Duplicate
mg/L - Milligrams per liter

There were no analytes detected in associated method blanks.

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
7-BV-01	107	yes	99	yes	94	yes	107	yes
7-BV-02	107	yes	96	yes	92	yes	105	yes
7-BV-02 (FD)	107	yes	97	yes	96	yes	105	yes
7-BV-04	113	yes	99	yes	95	yes	104	yes
7-BV-06	108	yes	98	yes	93	yes	108	yes
7-BV-07	113	yes	99	yes	96	yes	106	yes
7-BV-08	111	yes	96	yes	95	yes	105	yes
7-BV-13	104	yes	98	yes	92	yes	109	yes
7-EW-1	104	yes	97	yes	105	yes	97	yes
7-EW-2	108	yes	102	yes	104	yes	98	yes
7-EW-2 (FD)	99	yes	102	yes	105	yes	103	yes
7-EW-2 (MS)	105	yes	101	yes	110	yes	100	yes
7-EW-2 (MSD)	96	yes	103	yes	109	yes	100	yes
7-PTE-04/02/09	105	yes	93	yes	100	yes	96	yes
7-PTE-04/16/09	105	yes	111	yes	89	yes	107	yes
7-PTE-04/30/09	115	yes	102	yes	104	yes	107	yes
7-PTE-05/14/09	101	yes	85	yes	103	yes	94	yes
7-PTE-05/28/09	101	yes	108	yes	106	yes	106	yes
7-PTE-06/11/09	123	no	98	yes	114	yes	97	yes
7-PTE-06/25/09	105	yes	83	yes	107	yes	91	yes
7-PTI-04/16/09	110	yes	101	yes	110	yes	98	yes
7-PTI-04/16/09 (FD)	100	yes	99	yes	103	yes	97	yes
7-PTI-04/16/09 (MS)	97	yes	100	yes	108	yes	94	yes
7-PTI-04/16/09 (MSD)	95	yes	97	yes	110	yes	95	yes
7-PZ-37	100	yes	113	yes	96	yes	109	yes
7-PZ-37P	113	yes	105	yes	102	yes	98	yes
7-PZ-37P (FD)	108	yes	107	yes	96	yes	100	yes
7-PZ-37P (MS)	98	yes	112	yes	105	yes	109	yes
7-PZ-37P (MSD)	117	yes	110	yes	108	yes	104	yes
7-PZ-38P	105	yes	100	yes	99	yes	98	yes
ACW AT-1	105	yes	101	yes	108	yes	106	yes
ACW AT-1 (FD)	102	yes	106	yes	102	yes	108	yes
ACW AT-1 (MS)	97	yes	105	yes	104	yes	106	yes
ACW AT-1 (MSD)	104	yes	112	yes	116	no	112	yes
ACW AT-2	98	yes	101	yes	100	yes	105	yes
ACW EW-1	98	yes	104	yes	97	yes	109	yes
ACW EW-2	106	yes	110	yes	105	yes	112	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
ACW EW-3	102	yes	105	yes	101	yes	106	yes
ACW EW-4	102	yes	104	yes	103	yes	106	yes
ACW EW-6R	102	yes	105	yes	101	yes	106	yes
ACW PTE-04/02/09	105	yes	94	yes	100	yes	101	yes
ACW PTE-04/16/09	102	yes	109	yes	100	yes	105	yes
ACW PTE-04/30/09	119	yes	106	yes	116	no	106	yes
ACW PTE-05/14/09	102	yes	93	yes	103	yes	98	yes
ACW PTE-05/28/09	97	yes	108	yes	100	yes	103	yes
ACW PTE-06/11/09	114	yes	96	yes	107	yes	99	yes
ACW PTE-06/25/09	102	yes	82	yes	104	yes	86	yes
ACW PTI-04/16/09	106	yes	105	yes	104	yes	102	yes
ACW PTI-04/16/09 (FD)	109	yes	101	yes	103	yes	100	yes
ACW PTI-04/16/09 (MS)	100	yes	103	yes	106	yes	98	yes
ACW PTI-04/16/09 (MSD)	98	yes	102	yes	102	yes	99	yes
ACW PZ-02	97	yes	103	yes	101	yes	99	yes
ACW PZ-05	106	yes	114	yes	109	yes	109	yes
ACW PZ-06C	98	yes	106	yes	102	yes	102	yes
ACW PZ-07C	98	yes	104	yes	100	yes	102	yes
ACW PZ-08C	94	yes	100	yes	94	yes	96	yes
ACW PZ-09C	102	yes	105	yes	104	yes	102	yes
ACW PZ-10C	104	yes	110	yes	106	yes	105	yes
ACW R2	108	yes	106	yes	105	yes	102	yes
FFS EW15-1	101	yes	98	yes	99	yes	96	yes
FFS EW15-2	100	yes	97	yes	100	yes	96	yes
FFS MW15-1	101	yes	99	yes	101	yes	94	yes
FFS MW15-2	107	yes	102	yes	106	yes	97	yes
FFS MW15-3	109	yes	101	yes	104	yes	101	yes
FFS MW15-6	103	yes	112	yes	108	yes	113	yes
MAFB-005	92	yes	96	yes	89	yes	95	yes
MAFB-006	92	yes	100	yes	94	yes	86	yes
MAFB-013	99	yes	109	yes	107	yes	104	yes
MAFB-033	98	yes	84	yes	103	yes	91	yes
MAFB-041	110	yes	100	yes	104	yes	98	yes
MAFB-042	104	yes	114	yes	111	yes	113	yes
MAFB-044	102	yes	89	yes	95	yes	95	yes
MAFB-047	90	yes	107	yes	91	yes	82	yes
MAFB-047 (FD)	103	yes	99	yes	95	yes	100	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-047 (MS)	109	yes	104	yes	107	yes	101	yes
MAFB-047 (MSD)	99	yes	99	yes	102	yes	98	yes
MAFB-048	108	yes	114	yes	111	yes	115	yes
MAFB-053	99	yes	103	yes	100	yes	100	yes
MAFB-056	108	yes	104	yes	103	yes	103	yes
MAFB-059	96	yes	106	yes	99	yes	92	yes
MAFB-060	103	yes	99	yes	101	yes	101	yes
MAFB-061	105	yes	115	yes	107	yes	117	yes
MAFB-062	107	yes	100	yes	96	yes	97	yes
MAFB-063	88	yes	91	yes	95	yes	92	yes
MAFB-067	101	yes	107	yes	103	yes	103	yes
MAFB-068	96	yes	104	yes	100	yes	104	yes
MAFB-068 (FD)	103	yes	109	yes	104	yes	104	yes
MAFB-069	97	yes	105	yes	102	yes	106	yes
MAFB-078	107	yes	112	yes	111	yes	107	yes
MAFB-090	75	yes	99	yes	87	yes	100	yes
MAFB-094	102	yes	113	yes	101	yes	91	yes
MAFB-096	103	yes	108	yes	103	yes	90	yes
MAFB-101	106	yes	111	yes	107	yes	111	yes
MAFB-102	108	yes	116	yes	109	yes	116	yes
MAFB-104	103	yes	110	yes	107	yes	104	yes
MAFB-109	107	yes	93	yes	102	yes	93	yes
MAFB-111	97	yes	104	yes	104	yes	101	yes
MAFB-112	99	yes	85	yes	102	yes	92	yes
MAFB-122	93	yes	84	yes	97	yes	91	yes
MAFB-123	113	yes	92	yes	105	yes	91	yes
MAFB-129	109	yes	109	yes	108	yes	106	yes
MAFB-131	88	yes	92	yes	90	yes	88	yes
MAFB-132	88	yes	90	yes	87	yes	88	yes
MAFB-133	86	yes	92	yes	91	yes	90	yes
MAFB-133 (FD)	93	yes	91	yes	90	yes	89	yes
MAFB-133 (MS)	92	yes	100	yes	94	yes	97	yes
MAFB-133 (MSD)	84	yes	95	yes	86	yes	90	yes
MAFB-136	91	yes	87	yes	91	yes	91	yes
MAFB-148	113	yes	108	yes	102	yes	104	yes
MAFB-149	103	yes	88	yes	96	yes	90	yes
MAFB-151	102	yes	111	yes	107	yes	106	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-155	98	yes	106	yes	98	yes	89	yes
MAFB-155 (FD)	103	yes	98	yes	98	yes	96	yes
MAFB-159	105	yes	101	yes	97	yes	92	yes
MAFB-164	88	yes	91	yes	90	yes	91	yes
MAFB-167	104	yes	99	yes	94	yes	98	yes
MAFB-168	89	yes	99	yes	96	yes	97	yes
MAFB-170	113	yes	100	yes	98	yes	96	yes
MAFB-171	108	yes	101	yes	98	yes	100	yes
MAFB-172	96	yes	100	yes	100	yes	88	yes
MAFB-173	97	yes	103	yes	100	yes	91	yes
MAFB-174	101	yes	101	yes	100	yes	90	yes
MAFB-175	107	yes	112	yes	112	yes	108	yes
MAFB-176	99	yes	101	yes	99	yes	92	yes
MAFB-177	106	yes	104	yes	97	yes	100	yes
MAFB-180	101	yes	107	yes	97	yes	88	yes
MAFB-181	103	yes	95	yes	105	yes	96	yes
MAFB-191	102	yes	96	yes	98	yes	99	yes
MAFB-193	102	yes	107	yes	100	yes	90	yes
MAFB-194	96	yes	109	yes	103	yes	106	yes
MAFB-194 (MS)	99	yes	111	yes	111	yes	107	yes
MAFB-194 (MSD)	97	yes	109	yes	110	yes	102	yes
MAFB-196	106	yes	105	yes	110	yes	100	yes
MAFB-198	98	yes	105	yes	96	yes	88	yes
MAFB-199	110	yes	101	yes	99	yes	99	yes
MAFB-200	103	yes	108	yes	103	yes	107	yes
MAFB-200 (FD)	102	yes	107	yes	99	yes	88	yes
MAFB-200 (MS)	104	yes	105	yes	107	yes	99	yes
MAFB-200 (MSD)	97	yes	101	yes	100	yes	100	yes
MAFB-201	92	yes	97	yes	95	yes	92	yes
MAFB-202	103	yes	101	yes	96	yes	92	yes
MAFB-203	96	yes	86	yes	98	yes	93	yes
MAFB-204	99	yes	83	yes	101	yes	93	yes
MAFB-205	89	yes	94	yes	92	yes	92	yes
MAFB-206	78	yes	99	yes	86	yes	99	yes
MAFB-207	99	yes	95	yes	98	yes	94	yes
MAFB-209	101	yes	92	yes	98	yes	96	yes
MAFB-210	102	yes	92	yes	100	yes	94	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-211	115	yes	115	yes	109	yes	115	yes
MAFB-212	102	yes	96	yes	98	yes	95	yes
MAFB-214	83	yes	93	yes	90	yes	88	yes
MAFB-215	106	yes	100	yes	102	yes	102	yes
MAFB-215 (FD)	97	yes	100	yes	98	yes	87	yes
MAFB-215 (MS)	104	yes	100	yes	103	yes	100	yes
MAFB-215 (MSD)	99	yes	101	yes	106	yes	95	yes
MAFB-216	92	yes	90	yes	95	yes	90	yes
MAFB-216 (FD)	93	yes	95	yes	93	yes	95	yes
MAFB-216 (MS)	85	yes	93	yes	92	yes	91	yes
MAFB-216 (MSD)	85	yes	100	yes	89	yes	97	yes
MAFB-217	106	yes	117	yes	108	yes	116	yes
MAFB-218	98	yes	81	yes	100	yes	87	yes
MAFB-220	88	yes	92	yes	90	yes	94	yes
MAFB-221	96	yes	114	yes	100	yes	108	yes
MAFB-222	101	yes	78	yes	100	yes	88	yes
MAFB-223	84	yes	92	yes	92	yes	90	yes
MAFB-224	111	yes	115	yes	113	yes	112	yes
MAFB-227	93	yes	95	yes	95	yes	93	yes
MAFB-228	96	yes	92	yes	96	yes	94	yes
MAFB-229	105	yes	97	yes	97	yes	101	yes
MAFB-230	110	yes	101	yes	99	yes	99	yes
MAFB-231	100	yes	102	yes	96	yes	105	yes
MAFB-232	102	yes	103	yes	100	yes	90	yes
MAFB-235	91	yes	96	yes	92	yes	96	yes
MAFB-239	107	yes	98	yes	92	yes	107	yes
MAFB-240	88	yes	97	yes	97	yes	100	yes
MAFB-242	95	yes	80	yes	97	yes	93	yes
MAFB-243	89	yes	95	yes	92	yes	97	yes
MAFB-246	98	yes	103	yes	99	yes	90	yes
MAFB-247	109	yes	113	yes	113	yes	105	yes
MAFB-248	94	yes	105	yes	96	yes	92	yes
MAFB-249	99	yes	107	yes	102	yes	101	yes
MAFB-250	103	yes	97	yes	102	yes	96	yes
MAFB-251	99	yes	94	yes	93	yes	98	yes
MAFB-258	105	yes	111	yes	108	yes	105	yes
MAFB-259	105	yes	106	yes	106	yes	103	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-260	98	yes	109	yes	100	yes	104	yes
MAFB-261	99	yes	105	yes	102	yes	108	yes
MAFB-263	100	yes	106	yes	103	yes	108	yes
MAFB-264	92	yes	97	yes	93	yes	97	yes
MAFB-265	102	yes	102	yes	100	yes	89	yes
MAFB-265 (FD)	102	yes	111	yes	101	yes	93	yes
MAFB-265 (MS)	97	yes	106	yes	105	yes	90	yes
MAFB-265 (MSD)	99	yes	106	yes	108	yes	90	yes
MAFB-266	79	yes	95	yes	85	yes	95	yes
MAFB-267	96	yes	104	yes	98	yes	100	yes
MAFB-268	99	yes	105	yes	102	yes	102	yes
MAFB-269	97	yes	101	yes	98	yes	101	yes
MAFB-270	103	yes	97	yes	108	yes	105	yes
MAFB-273	103	yes	108	yes	100	yes	89	yes
MAFB-274	106	yes	95	yes	96	yes	98	yes
MAFB-282	103	yes	101	yes	97	yes	100	yes
MAFB-284	107	yes	111	yes	93	yes	105	yes
MAFB-285	94	yes	102	yes	102	yes	101	yes
MAFB-288	103	yes	109	yes	109	yes	104	yes
MAFB-290	103	yes	103	yes	104	yes	101	yes
MAFB-291	99	yes	105	yes	95	yes	88	yes
MAFB-292	98	yes	104	yes	94	yes	88	yes
MAFB-292 (FD)	109	yes	104	yes	100	yes	105	yes
MAFB-292 (MS)	96	yes	106	yes	100	yes	89	yes
MAFB-292 (MSD)	94	yes	104	yes	105	yes	88	yes
MAFB-293	94	yes	96	yes	96	yes	103	yes
MAFB-294	83	yes	88	yes	84.5	no	88	yes
MAFB-296	105	yes	90	yes	101	yes	91	yes
MAFB-297	101	yes	100	yes	106	yes	100	yes
MAFB-300	95	yes	102	yes	102	yes	102	yes
MAFB-301	106	yes	113	yes	108	yes	108	yes
MAFB-301 (FD)	111	yes	118	yes	112	yes	113	yes
MAFB-301 (MS)	94	yes	108	yes	109	yes	103	yes
MAFB-301 (MSD)	101	yes	113	yes	119	no	106	yes
MAFB-302	99	yes	108	yes	101	yes	103	yes
MAFB-306	97	yes	101	yes	97	yes	87	yes
MAFB-308	92	yes	87	yes	96	yes	95	yes

Mather AR # 2970.1 Page 141 of 1088

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-311	105	yes	96	yes	109	yes	103	yes
MAFB-312	92	yes	94	yes	92	yes	99	yes
MAFB-313	99	yes	103	yes	98	yes	89	yes
MAFB-314	95	yes	82	yes	96	yes	93	yes
MAFB-314 (RE)	107	yes	96	yes	114	yes	102	yes
MAFB-318	87	yes	88	yes	87	yes	93	yes
MAFB-320	102	yes	86	yes	104	yes	92	yes
MAFB-329	96	yes	100	yes	97	yes	100	yes
MAFB-331	113	yes	99	yes	105	yes	98	yes
MAFB-332	92	yes	98	yes	91	yes	98	yes
MAFB-339	104	yes	91	yes	99	yes	91	yes
MAFB-340	105	yes	103	yes	98	yes	102	yes
MAFB-341	104	yes	98	yes	96	yes	100	yes
MAFB-342	107	yes	99	yes	99	yes	99	yes
MAFB-344	109	yes	93	yes	102	yes	97	yes
MAFB-346Bd	92	yes	97	yes	92	yes	96	yes
MAFB-346Bs	95	yes	103	yes	99	yes	103	yes
MAFB-346D	103	yes	110	yes	107	yes	111	yes
MAFB-347	103	yes	107	yes	102	yes	88	yes
MAFB-348B	97	yes	107	yes	99	yes	91	yes
MAFB-348Dd	100	yes	105	yes	99	yes	90	yes
MAFB-348Ds	99	yes	105	yes	99	yes	89	yes
MAFB-351D	100	yes	107	yes	104	yes	107	yes
MAFB-352D	105	yes	105	yes	108	yes	99	yes
MAFB-352D (MS)	93	yes	102	yes	102	yes	100	yes
MAFB-352D (MSD)	96	yes	104	yes	105	yes	101	yes
MAFB-353	115	yes	103	yes	108	yes	102	yes
MAFB-354B	116	yes	101	yes	108	yes	100	yes
MAFB-354D	113	yes	101	yes	106	yes	102	yes
MAFB-356B	94	yes	84	yes	92	yes	95	yes
MAFB-357D	107	yes	100	yes	96	yes	100	yes
MAFB-357D (FD)	100	yes	102	yes	94	yes	101	yes
MAFB-357Dd	108	yes	99	yes	98	yes	99	yes
MAFB-357Ds	105	yes	100	yes	94	yes	99	yes
MAFB-358B	108	yes	103	yes	98	yes	101	yes
MAFB-358D	108	yes	100	yes	97	yes	96	yes
MAFB-359	86	yes	99	yes	93	yes	96	yes

Mather AR # 2970.1 Page 142 of 1088

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-361	104	yes	100	yes	98	yes	100	yes
MAFB-362	84	yes	92	yes	88	yes	92	yes
MAFB-363	92	yes	91	yes	94	yes	89	yes
MAFB-364B	109	yes	117	yes	113	yes	110	yes
MAFB-364D	102	yes	110	yes	106	yes	104	yes
MAFB-365B	102	yes	110	yes	104	yes	104	yes
MAFB-365D	103	yes	106	yes	107	yes	101	yes
MAFB-366B	106	yes	111	yes	103	yes	106	yes
MAFB-366D	107	yes	105	yes	104	yes	101	yes
MAFB-366D (FD)	100	yes	105	yes	100	yes	89	yes
MAFB-367	100	yes	108	yes	99	yes	90	yes
MAFB-368B	104	yes	113	yes	111	yes	116	yes
MAFB-368D	102	yes	103	yes	106	yes	104	yes
MAFB-368D (FD)	100	yes	105	yes	101	yes	106	yes
MAFB-368D (MS)	98	yes	103	yes	106	yes	103	yes
MAFB-368D (MSD)	92	yes	102	yes	105	yes	101	yes
MAFB-369	99	yes	105	yes	101	yes	99	yes
MAFB-370	101	yes	107	yes	111	yes	109	yes
MAFB-371C	96	yes	106	yes	105	yes	106	yes
MAFB-371D	79	yes	107	yes	92	yes	110	yes
MAFB-372B	79	yes	103	yes	88	yes	102	yes
MAFB-372D	83	yes	111	yes	92	yes	107	yes
MAFB-373C	100	yes	104	yes	105	yes	103	yes
MAFB-373C (FD)	105	yes	104	yes	106	yes	102	yes
MAFB-373D	103	yes	99	yes	106	yes	98	yes
MAFB-373D (MS)	100	yes	100	yes	108	yes	97	yes
MAFB-373D (MSD)	99	yes	102	yes	106	yes	101	yes
MAFB-374	98	yes	93	yes	96	yes	92	yes
MAFB-375	91	yes	102	yes	92	yes	87	yes
MAFB-376	90	yes	102	yes	92	yes	88	yes
MAFB-376 (FD)	103	yes	105	yes	106	yes	103	yes
MAFB-377	101	yes	106	yes	100	yes	92	yes
MAFB-378B	108	yes	99	yes	103	yes	102	yes
MAFB-378B (FD)	105	yes	103	yes	108	yes	105	yes
MAFB-378D	105	yes	101	yes	106	yes	103	yes
MAFB-378D (MS)	107	yes	101	yes	103	yes	105	yes
MAFB-378D (MSD)	103	yes	97	yes	103	yes	102	yes

Mather AR # 2970.1 Page 143 of 1088

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-379B	104	yes	97	yes	100	yes	101	yes
MAFB-379D	106	yes	108	yes	101	yes	109	yes
MAFB-380B	92	yes	98	yes	97	yes	101	yes
MAFB-380B (FD)	93	yes	100	yes	97	yes	103	yes
MAFB-380D	95	yes	102	yes	99	yes	106	yes
MAFB-381B	105	yes	105	yes	108	yes	106	yes
MAFB-381D	99	yes	107	yes	102	yes	106	yes
MAFB-382B	104	yes	96	yes	106	yes	98	yes
MAFB-382B (FD)	103	yes	92	yes	99	yes	95	yes
MAFB-382D	107	yes	99	yes	103	yes	102	yes
MAFB-383B	100	yes	106	yes	98	yes	92	yes
MAFB-384B	103	yes	96	yes	97	yes	99	yes
MAFB-384D	105	yes	99	yes	97	yes	103	yes
MAFB-385D	96	yes	101	yes	95	yes	103	yes
MAFB-386D	102	yes	99	yes	99	yes	95	yes
MAFB-387B	98	yes	87	yes	95	yes	97	yes
MAFB-387Dd	94	yes	89	yes	91	yes	101	yes
MAFB-387Ds	92	yes	98	yes	97	yes	98	yes
MAFB-388B	94	yes	85	yes	88	yes	94	yes
MAFB-388Dd	93	yes	100	yes	101	yes	100	yes
MAFB-388Ds	95	yes	88	yes	90	yes	99	yes
MAFB-391	93	yes	99	yes	97	yes	100	yes
MAFB-392	103	yes	96	yes	102	yes	98	yes
MAFB-393	103	yes	96	yes	101	yes	99	yes
MAFB-394	107	yes	102	yes	102	yes	99	yes
MAFB-395	109	yes	105	yes	105	yes	104	yes
MAFB-395 (FD)	105	yes	99	yes	101	yes	98	yes
MAFB-396	107	yes	104	yes	103	yes	102	yes
MAFB-397	107	yes	108	yes	104	yes	111	yes
MAFB-398	94	yes	95	yes	95	yes	94	yes
MAFB-398C	98	yes	94	yes	98	yes	93	yes
MAFB-399	98	yes	87	yes	100	yes	93	yes
MAFB-400	104	yes	111	yes	108	yes	106	yes
MAFB-400 (FD)	101	yes	101	yes	103	yes	98	yes
MAFB-401	105	yes	110	yes	108	yes	108	yes
MAFB-401 (FD)	104	yes	106	yes	105	yes	102	yes
MAFB-402	101	yes	106	yes	102	yes	101	yes

Mather AR # 2970.1 Page 144 of 1088

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-403	104	yes	106	yes	106	yes	102	yes
MAFB-404	101	yes	107	yes	100	yes	106	yes
MAFB-405	108	yes	105	yes	107	yes	101	yes
MAFB-405 (FD)	97	yes	107	yes	98	yes	105	yes
MAFB-407	104	yes	98	yes	96	yes	99	yes
MAFB-408	103	yes	112	yes	106	yes	109	yes
MAFB-410	108	yes	119	yes	109	yes	118	yes
MAFB-411	99	yes	101	yes	101	yes	103	yes
MAFB-411 (FD)	101	yes	108	yes	103	yes	108	yes
MAFB-412	90	yes	96	yes	93	yes	98	yes
MAFB-413	107	yes	115	yes	96	yes	111	yes
MAFB-414	78	yes	107	yes	90	yes	105	yes
MAFB-414 (FD)	79	yes	103	yes	91	yes	103	yes
MAFB-415	101	yes	114	yes	101	yes	108	yes
MAFB-417	101	yes	89	yes	102	yes	94	yes
MAFB-418	102	yes	110	yes	103	yes	107	yes
MAFB-419	103	yes	86	yes	104	yes	90	yes
MAFB-420	104	yes	93	yes	97	yes	93	yes
MAFB-420 (RE)	97	yes	93	yes	95	yes	93	yes
MAFB-422	101	yes	107	yes	99	yes	90	yes
MAFB-423	91	yes	103	yes	96	yes	97	yes
MAFB-423B	99	yes	107	yes	102	yes	102	yes
MAFB-423B (FD)	90	yes	101	yes	99	yes	96	yes
MAFB-424	108	yes	108	yes	96	yes	100	yes
MAFB-425	97	yes	105	yes	98	yes	92	yes
MAFB-426	94	yes	88	yes	92	yes	99	yes
MAFB-427	92	yes	86	yes	90	yes	99	yes
MAFB-428	102	yes	85	yes	104	yes	90	yes
MAFB-429Bd	104	yes	96	yes	101	yes	100	yes
MAFB-429Bs	103	yes	99	yes	100	yes	97	yes
MAFB-429Bs (FD)	97	yes	101	yes	101	yes	103	yes
MAFB-429Bu	96	yes	96	yes	100	yes	96	yes
MAFB-430	98	yes	95	yes	98	yes	98	yes
MAFB-431Bd	106	yes	98	yes	102	yes	98	yes
MAFB-431Dd	99	yes	99	yes	101	yes	101	yes
MAFB-431Ds	105	yes	99	yes	105	yes	97	yes
MAFB-432	110	yes	100	yes	106	yes	102	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-433	113	yes	102	yes	109	yes	108	yes
MAFB-433 (FD)	114	yes	101	yes	112	yes	106	yes
MAFB-434Bd	106	yes	97	yes	105	yes	98	yes
MAFB-434Bs	102	yes	96	yes	102	yes	95	yes
MAFB-434Bs (MS)	103	yes	104	yes	101	yes	103	yes
MAFB-434Bs (MSD)	106	yes	101	yes	108	yes	101	yes
MAFB-434Bu	122	no	98	yes	113	yes	102	yes
MAFB-434Bu (FD)	110	yes	106	yes	105	yes	105	yes
MAFB-435	105	yes	100	yes	100	yes	97	yes
MAFB-437Dd	102	yes	106	yes	102	yes	105	yes
MAFB-437Ds	104	yes	111	yes	105	yes	102	yes
MAFB-438	117	yes	105	yes	117	no	105	yes
MAFB-439	81	yes	105	yes	93	yes	105	yes
MAFB-440	92	yes	83	yes	95	yes	92	yes
MAFB-440P	98	yes	87	yes	101	yes	96	yes
MAFB-441	103	yes	106	yes	102	yes	107	yes
MAFB-442	95	yes	89	yes	96	yes	96	yes
MAFB-443	93	yes	96	yes	98	yes	96	yes
MAFB-444	99	yes	107	yes	107	yes	106	yes
MAFB-445	93	yes	104	yes	101	yes	104	yes
MAFB-446	98	yes	106	yes	100	yes	104	yes
MAFB-446 (FD)	101	yes	103	yes	103	yes	101	yes
MAFB-447	98	yes	104	yes	103	yes	103	yes
MAFB-448	92	yes	107	yes	96	yes	103	yes
MAFB-449Bd	109	yes	100	yes	107	yes	103	yes
MAFB-449Bs	109	yes	98	yes	104	yes	103	yes
MAFB-450	100	yes	97	yes	101	yes	96	yes
MAFB-451	106	yes	103	yes	106	yes	100	yes
MAFB-452B	117	yes	106	yes	107	yes	103	yes
MAFB-452Bu	108	yes	101	yes	100	yes	98	yes
MAFB-453	110	yes	119	yes	103	yes	110	yes
MAFB-453C	105	yes	109	yes	99	yes	105	yes
MAFB-454	110	yes	102	yes	105	yes	105	yes
MAFB-454C	111	yes	94	yes	113	yes	97	yes
MAFB-455	118	yes	97	yes	114	yes	98	yes
MAFB-456	89	yes	110	yes	98	yes	108	yes
MAFB-456C	111	yes	100	yes	108	yes	106	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-457Bd	115	yes	102	yes	108	yes	106	yes
MAFB-457Bs	105	yes	102	yes	104	yes	104	yes
MAFB-457Bs (FD)	117	yes	104	yes	109	yes	107	yes
MAFB-458Bd	106	yes	105	yes	102	yes	108	yes
MAFB-458Bs	110	yes	101	yes	108	yes	105	yes
MAFB-459D	93	yes	101	yes	97	yes	103	yes
MAFB-459Dd	96	yes	99	yes	100	yes	98	yes
MBS 39ABuB	98	yes	100	yes	102	yes	102	yes
MBS EW1ABu	103	yes	105	yes	107	yes	107	yes
MBS EW-1B	103	yes	98	yes	101	yes	101	yes
MBS EW-1Bu	107	yes	105	yes	105	yes	108	yes
MBS EW-1Bu (FD)	108	yes	103	yes	105	yes	104	yes
MBS EW-1Bu (MS)	102	yes	105	yes	111	yes	109	yes
MBS EW-1Bu (MSD)	102	yes	101	yes	113	yes	105	yes
MBS EW-1D	105	yes	103	yes	107	yes	97	yes
MBS EW2ABu	102	yes	108	yes	105	yes	109	yes
MBS EW-2AR	105	yes	108	yes	106	yes	101	yes
MBS EW-2B	103	yes	103	yes	102	yes	104	yes
MBS EW-2D	116	yes	114	yes	115	yes	120	yes
MBS EW-3B	101	yes	107	yes	103	yes	110	yes
MBS EW-3B (FD)	89	yes	94	yes	93	yes	94	yes
MBS EW-3B (MS)	103	yes	107	yes	110	yes	109	yes
MBS EW-3B (MSD)	93	yes	103	yes	108	yes	104	yes
MBS EW-3Bu	108	yes	100	yes	107	yes	98	yes
MBS EW-3D	98	yes	103	yes	100	yes	109	yes
MBS EW-4A	103	yes	107	yes	107	yes	112	yes
MBS EW4ABu	100	yes	101	yes	101	yes	103	yes
MBS EW-4B	97	yes	102	yes	98	yes	104	yes
MBS EW-4Bu	108	yes	102	yes	107	yes	100	yes
MBS EW-4D	100	yes	102	yes	104	yes	102	yes
MBS EW5ABu	105	yes	102	yes	107	yes	102	yes
MBS EW-5B	110	yes	107	yes	111	yes	108	yes
MBS EW-5D	101	yes	106	yes	102	yes	105	yes
MBS EW6ABu	96	yes	101	yes	97	yes	103	yes
MBS EW-6B	103	yes	103	yes	103	yes	105	yes
MBS EW-6D	105	yes	101	yes	103	yes	101	yes
MBS EW7ABu	100	yes	103	yes	101	yes	105	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MBS EW-7B	89	yes	90	yes	90	yes	95	yes
MBS EW-8B	105	yes	95	yes	102	yes	96	yes
MBS EW-9B	111	yes	101	yes	107	yes	100	yes
MBS EW-10B	95	yes	100	yes	102	yes	97	yes
MBS EW-10B (FD)	94	yes	107	yes	100	yes	102	yes
MBS EW-10B (MS)	97	yes	105	yes	103	yes	106	yes
MBS EW-10B (MSD)	98	yes	99	yes	101	yes	98	yes
MBS EW-11B	101	yes	105	yes	105	yes	101	yes
MBS EW-12AB	100	yes	101	yes	104	yes	99	yes
MBS EW-12B	106	yes	101	yes	110	yes	97	yes
MBS EW-13BuB	107	yes	97	yes	104	yes	92	yes
MBS PTE AF-04/02/09	105	yes	99	yes	99	yes	104	yes
MBS PTE AF-04/16/09	107	yes	111	yes	97	yes	101	yes
MBS PTE AF-04/30/09	129	no	104	yes	117	no	104	yes
MBS PTE AF-05/14/09	103	yes	85	yes	104	yes	94	yes
MBS PTE AF-05/28/09	96	yes	101	yes	100	yes	102	yes
MBS PTE AF-06/11/09	118	yes	91	yes	111	yes	97	yes
MBS PTE AF-06/25/09	101	yes	84	yes	106	yes	90	yes
MBS PTI-04/16/09	109	yes	104	yes	106	yes	102	yes
MBS PTI-04/16/09 (FD)	109	yes	101	yes	104	yes	97	yes
MBS PTI-04/16/09 (MS)	107	yes	103	yes	102	yes	100	yes
MBS PTI-04/16/09 (MSD)	101	yes	107	yes	105	yes	104	yes
MBS PZ-11	95	yes	103	yes	96	yes	89	yes
MBS PZ-12	95	yes	87	yes	98	yes	94	yes
MBS PZ-13	96	yes	81	yes	101	yes	89	yes
MBS PZ-14	97	yes	86	yes	100	yes	94	yes
MBS PZ-15	95	yes	85	yes	99	yes	91	yes
MBS PZ-37	92	yes	99	yes	99	yes	92	yes
MBS PZ-38	98	yes	106	yes	99	yes	89	yes
MBS PZ-39	107	yes	96	yes	101	yes	92	yes
MBS PZ-42D	92	yes	106	yes	95	yes	90	yes
MBS PZ-42D (FD)	105	yes	103	yes	104	yes	107	yes
MBS PZ-42S	111	yes	108	yes	104	yes	109	yes
MBS PZ-44	98	yes	89	yes	101	yes	95	yes
MBS PZ-44 (MS)	101	yes	87	yes	101	yes	94	yes
MBS PZ-44 (MSD)	97	yes	82	yes	99	yes	92	yes
MBS PZ-49D	103	yes	80	yes	103	yes	88	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MBS PZ-50D	105	yes	101	yes	95	yes	102	yes
MBS PZ-50S	110	yes	99	yes	99	yes	97	yes
MBS PZ-51	97	yes	90	yes	98	yes	96	yes
MBS PZ-52	111	yes	114	yes	105	yes	113	yes
MBS PZ-53	103	yes	92	yes	97	yes	93	yes
MBS PZ-54	104	yes	84	yes	105	yes	90	yes
MBS PZ-55B	93	yes	91	yes	96	yes	91	yes
MBS PZ-55Bu	89	yes	94	yes	95	yes	93	yes
MBS PZ-58	94	yes	102	yes	94	yes	86	yes
OFB-06	103	yes	96	yes	99	yes	94	yes
OFB-07	109	yes	96	yes	105	yes	94	yes
OFB-09	106	yes	92	yes	98	yes	92	yes
OFB-12	102	yes	86	yes	97	yes	85	yes
OFB-17	103	yes	92	yes	96	yes	93	yes
OFB-17 (FD)	100	yes	101	yes	91	yes	92	yes
OFB-17 (MS)	113	yes	95	yes	110	yes	90	yes
OFB-17 (MSD)	107	yes	95	yes	103	yes	91	yes
OFB-24	109	yes	96	yes	104	yes	91	yes
OFB-39	109	yes	93	yes	105	yes	91	yes
OFB-40	102	yes	99	yes	99	yes	92	yes
OFB-43	102	yes	104	yes	98	yes	96	yes
OFB-46	96	yes	101	yes	95	yes	95	yes
OFB-47	106	yes	105	yes	103	yes	98	yes
OFB-48	193	no	108	yes	124	no	87	yes
OFB-53	115	yes	97	yes	100	yes	92	yes
OFB-53 (FD)	96	yes	95	yes	94	yes	95	yes
OFB-57	109	yes	101	yes	98	yes	92	yes
OFB-67	113	yes	116	yes	96	yes	102	yes
OFB-68	113	yes	102	yes	98	yes	93	yes
OFB-69	100	yes	93	yes	96	yes	95	yes
OFB-69	115	yes	104	yes	99	yes	95	yes
OFB-69 (MS)	78	yes	107	yes	86	yes	85	yes
OFB-69 (MSD)	100	yes	110	yes	112	yes	87	yes
OFB-70	116	yes	105	yes	100	yes	100	yes
OFB-71	112	yes	102	yes	95	yes	97	yes
OFB-72	117	yes	102	yes	99	yes	91	yes
OFB-72	112	yes	83	yes	107	yes	88	yes

Mather AR # 2970.1 Page 149 of 1088

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
OFB-73	197	no	116	yes	125	no	91	yes
OFB-74	94	yes	102	yes	86	yes	94	yes
OFB-75	107	yes	103	yes	97	yes	94	yes
OFB-76	98	yes	100	yes	88	yes	91	yes
OFB-77	110	yes	101	yes	104	yes	92	yes
OFB-78	103	yes	101	yes	96	yes	93	yes
OFB-79	104	yes	99	yes	99	yes	93	yes
OFB-80	104	yes	102	yes	92	yes	91	yes
OFB-81	103	yes	99	yes	92	yes	91	yes
OFB-81	116	yes	101	yes	108	yes	90	yes
OFB-82	98	yes	100	yes	98	yes	97	yes
OFB-83	100	yes	103	yes	93	yes	97	yes
TB-04/02/09	103	yes	98	yes	100	yes	102	yes
TB-04/13/09	110	yes	109	yes	100	yes	102	yes
TB-04/14/09	105	yes	112	yes	100	yes	109	yes
TB-04/15/09	110	yes	113	yes	103	yes	104	yes
TB-04/16/09	107	yes	104	yes	103	yes	102	yes
TB-04/17/09	103	yes	105	yes	109	yes	102	yes
TB-04/20/09	91	yes	110	yes	98	yes	104	yes
TB-04/21/09	84	yes	86	yes	88	yes	85	yes
TB-04/22/09	97	yes	105	yes	100	yes	103	yes
TB-04/23/09	95	yes	108	yes	100	yes	107	yes
TB-04/24/09	109	yes	100	yes	103	yes	101	yes
TB-04/27/09	110	yes	105	yes	108	yes	109	yes
TB-04/29/09	100	yes	95	yes	100	yes	95	yes
TB-04/30/09	99	yes	97	yes	99	yes	96	yes
TB-05/01/09	115	yes	103	yes	111	yes	102	yes
TB-05/04/09	117	yes	100	yes	113	yes	108	yes
TB-05/05/09	112	yes	90	yes	107	yes	96	yes
TB-05/06/09	103	yes	103	yes	113	yes	104	yes
TB-05/07/09	106	yes	100	yes	102	yes	99	yes
TB-05/08/09	86	yes	105	yes	91	yes	85	yes
TB-05/11/09	103	yes	97	yes	93	yes	109	yes
TB-05/12/09	105	yes	96	yes	95	yes	107	yes
TB-05/13/09	109	yes	100	yes	95	yes	108	yes
TB-05/14/09	102	yes	88	yes	107	yes	94	yes
TB-05/18/09	97	yes	89	yes	97	yes	94	yes

Mather AR # 2970.1 Page 150 of 1088

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
TB-05/19/09	97	yes	86	yes	101	yes	95	yes
TB-05/20/09	100	yes	111	yes	103	yes	113	yes
TB-05/21/09	94	yes	84	yes	98	yes	93	yes
TB-05/22/09	95	yes	109	yes	105	yes	108	yes
TB-05/26/09	85	yes	105	yes	91	yes	102	yes
TB-05/27/09	89	yes	106	yes	98	yes	110	yes
TB-05/28/09	88	yes	106	yes	96	yes	105	yes
TB-05/29/09	100	yes	91	yes	97	yes	93	yes
TB-06/01/09	97	yes	100	yes	93	yes	92	yes
TB-06/02/09	99	yes	100	yes	97	yes	92	yes
TB-06/11/09	112	yes	92	yes	110	yes	95	yes
TB-06/15/09	99	yes	88	yes	97	yes	96	yes
TB-06/25/09	105	yes	86	yes	106	yes	89	yes
TB-06/29/09	109	yes	87	yes	110	yes	91	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RE - Sample Reanalysis
TB - Trip Blank

(a) 1,2-Dichloroethane-d4 (control limits: 72-119%)
(b) 4-Bromofluorobenzene (control limits: 76-119%)
(c) Dibromofluoromethane (control limits: 85-115%)
(d) Toluene-d8 (control limits: 81-120%)

Shaded data indicate nonconformances with project control limits.

Mather AR # 2970.1 Page 151 of 1088

TABLE 2-2.2

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
MAFB-271	109	yes	104	yes
MAFB-319	92	yes	95	yes
MAFB-319 (FD)	100	yes	102	yes
MAFB-321	103	yes	93	yes
MAFB-322	100	yes	97	yes
MAFB-323	100	yes	102	yes
MAFB-324	100	yes	103	yes
MAFB-324 (FD)	104	yes	104	yes
MAFB-324 (MS)	98	yes	112	yes
MAFB-324 (MSD)	106	yes	120	yes
MAFB-326	96	yes	97	yes
MAFB-327	96	yes	99	yes
MAFB-328	92	yes	95	yes
MAFB-330	97	yes	99	yes
MAFB-336	101	yes	104	yes
MAFB-337	99	yes	98	yes
MAFB-338	100	yes	101	yes
MAFB-349	96	yes	102	yes
MB-4	94	yes	96	yes
OFB-04-04/28/09	109	yes	104	yes
OFB-04-05/26/09	102	yes	107	yes
OFB-04-06/30/09	113	yes	105	yes
OFB-04M-04/28/09	100	yes	99	yes
OFB-04M-05/26/09	93	yes	93	yes
OFB-04M-06/30/09	111	yes	107	yes
OFB-27	110	yes	106	yes
OFB-27 (FD)	105	yes	111	yes
OFB-27 (MS)	102	yes	114	yes
OFB-27 (MSD)	115	yes	106	yes
OFB-31	106	yes	106	yes
OFB-32	111	yes	106	yes
OFB-49	106	yes	103	yes
OFB-51	104	yes	111	yes
OFB-51/52I-04/28/09	109	yes	103	yes
OFB-51/52I-05/26/09	98	yes	102	yes
OFB-51/52I-06/30/09	109	yes	106	yes
OFB-51/52M-04/28/09	106	yes	107	yes
OFB-51/52M-05/26/09	102	yes	105	yes
OFB-51/52M-06/30/09	108	yes	103	yes
OFB-52	109	yes	102	yes
OFB-52 (FD)	107	yes	107	yes
OFB-52 (MS)	111	yes	107	yes
OFB-52 (MSD)	112	yes	113	yes
OFB-54	112	yes	112	yes
OFB-56	114	yes	104	yes

TABLE 2-2.2

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
TB-04/14/09	102	yes	100	yes
TB-04/28/09	111	yes	114	yes
TB-06/02/09	90	yes	95	yes
TB-06/30/09	108	yes	108	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 1,2-Dichloroethane-d4 (control limits: 50-150%)
(b) 4-Bromofluorobenzene (control limits: 50-150%)

TABLE 2-2.3

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Surrogate (a)	Accuracy Acceptability
7-BV-13	97	yes
7-EW-1	86	yes
7-EW-2	90	yes
7-PTE-04/02/09	88	yes
7-PTE-04/16/09	89	yes
7-PTE-04/30/09	94	yes
7-PTE-05/14/09	88	yes
7-PTE-05/28/09	81	yes
7-PTE-06/11/09	104	yes
7-PTE-06/25/09	93	yes
7-PTI-04/16/09	85	yes
7-PTI-04/16/09 (FD)	89	yes
7-PTI-04/16/09 (MS)	90	yes
7-PTI-04/16/09 (MSD)	85	yes
7-PZ-37	89	yes
7-PZ-37P	87	yes
7-PZ-37P (FD)	82	yes
7-PZ-37P (MS)	92	yes
7-PZ-37P (MSD)	85	yes
7-PZ-38P	95	yes
MAFB-149	84	yes
MAFB-203	82	yes
MAFB-284	90	yes
MAFB-314	75	yes
MAFB-413	92	yes
MAFB-414	84	yes
MAFB-417	81	yes
MAFB-419	82	yes
MAFB-428	80	yes
MAFB-439	82	yes
MBS EW-1D	85	yes
MBS EW-2AR	82	yes
MBS PTE AF-04/16/09	85	yes
MBS PTI-04/16/09	86	yes
MBS PTI-04/16/09 (FD)	78	yes
MBS PTI-04/16/09 (MS)	99	yes
MBS PTI-04/16/09 (MSD)	88	yes
TB-04/02/09	88	yes
TB-04/13/09	107	yes
TB-04/14/09	99	yes
TB-04/15/09	82	yes
TB-04/16/09	82	yes
TB-04/17/09	87	yes
TB-04/20/09	88	yes
TB-04/30/09	84	yes

TABLE 2-2.3

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Surrogate (a)	Accuracy Acceptability
TB-05/12/09	93	yes
TB-05/13/09	94	yes
TB-05/14/09	92	yes
TB-05/21/09	87	yes
TB-05/26/09	87	yes
TB-05/28/09	80	yes
TB-06/11/09	113	yes
TB-06/25/09	88	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 4-Bromofluorobenzene (control limits: 75-125%)

TABLE 2-2.4

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
7-BV-13	89	yes	88	yes
7-EW-1	81	yes	72	yes
7-EW-2	79	yes	64	yes
7-PTE-04/16/09	78	yes	70	yes
7-PTI-04/16/09	78	yes	65	yes
7-PTI-04/16/09 (FD)	78	yes	66	yes
7-PTI-04/16/09 (MS)	84	yes	77	yes
7-PTI-04/16/09 (MSD)	85	yes	75	yes
7-PZ-37	80	yes	62	yes
7-PZ-37P	90	yes	77	yes
7-PZ-37P (FD)	91	yes	79	yes
7-PZ-37P (MS)	83	yes	77	yes
7-PZ-37P (MSD)	80	yes	74	yes
7-PZ-38P	82	yes	82	yes
ACW PTE-04/16/09	73	yes	62	yes
ACW PTE-04/16/09 (FD)	76	yes	61	yes
ACW PTE-04/16/09 (MS)	77	yes	62	yes
ACW PTE-04/16/09 (MSD)	79	yes	70	yes
MAFB-044	106	yes	80	yes
MAFB-149	103	yes	79	yes
MAFB-284	88	yes	69	yes
MAFB-359	104	yes	92	yes
MAFB-372B	72	yes	58	yes
MAFB-413	97	yes	71	yes
MAFB-414	95	yes	88	yes
MAFB-419	136	yes	91	yes
MAFB-439	103	yes	75	yes
MBS PTE AF-04/16/09	77	yes	62	yes
MBS PTI-04/16/09	76	yes	60	yes
MBS PTI-04/16/09 (FD)	77	yes	61	yes
MBS PTI-04/16/09 (MS)	79	yes	64	yes
MBS PTI-04/16/09 (MSD)	81	yes	66	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

(a) n-Octacosane (control limits: 26-152%)
(b) o-Terphenyl (control limits: 57-132%)

TABLE 2-2.5

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8081 - PESTICIDES
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
7-PZ-37	124	yes	42	yes
7-PZ-37P	74	yes	91	yes
7-PZ-37P (FD)	69	yes	83	yes
7-PZ-37P (MS)	57	yes	71	yes
7-PZ-37P (MSD)	53	yes	76	yes
MAFB-284	70	yes	70	yes
MAFB-413	69	yes	77	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

(a) 2,4,5,6-Tetrachloro-meta-xylene (control limits: 33-138%)
(b) Decachlorobiphenyl (control limits: 32-135%)

TABLE 2-2.6

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8082 - POLYCHLORINATED BIPHENYLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability
7-PZ-37	46	yes
7-PZ-37P	86	yes
7-PZ-37P (FD)	80	yes
7-PZ-37P (MS)	68	yes
7-PZ-37P (MSD)	78	yes
MAFB-284	70	yes
MAFB-413	74	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

(a) Decachlorobiphenyl (control limits: 42-133%)

TABLE 2-2.7

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability
7-PZ-37	54	yes	51	yes	63	yes
7-PZ-37P	51	yes	61	yes	68	yes
7-PZ-37P (FD)	50	yes	55	yes	68	yes
7-PZ-37P (MS)	51	yes	52	yes	61	yes
7-PZ-37P (MSD)	50	yes	52	yes	60	yes
MAFB-284	52	yes	51	yes	62	yes
MAFB-413	48	yes	54	yes	69	yes
MAFB-440	79	yes	83	yes	78	yes
MAFB-440P	92	yes	95	yes	94	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

(a) 2-Fluorobiphenyl (control limits: 48-120%)
(b) Nitrobenzene-d5 (control limits: 41-120%)
(c) Terphenyl-d14 (control limits: 51-135%)

3.0 CROSS-REFERENCE TABLE

The table presented in this section (Table 3-1) corresponds to Table A-5 of the Handbook (Appendix A, Tab 6). Table 3-1 provides a cross-reference between laboratory sample and field sample identifications.

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MBS PTE AF	MBS PTE AF	AX94090	04/02/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AX94091	04/02/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX94092	04/02/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX94093	04/02/09	001A	Pump and Treat Effluent
TB-04/02/09	7-PTT	AX94094	04/02/09	001A	Trip Blank
TB-04/13/09	LF-MW-1	AX94662	04/13/09	001A	Trip Blank
MAFB-044	MAFB-044	AX94663	04/13/09	001A	Groundwater
MAFB-044 (MS)	MAFB-044	AX94663	04/13/09	001A	Matrix Spike
MAFB-044 (MSD)	MAFB-044	AX94663	04/13/09	001A	Matrix Spike Duplicate
MAFB-149	MAFB-149	AX94664	04/13/09	001A	Groundwater
7-PZ-23	7-PZ-23	AX94665	04/13/09	001A	Groundwater
7-PZ-24	7-PZ-24	AX94666	04/13/09	001A	Groundwater
7-PZ-25	7-PZ-25	AX94667	04/13/09	001A	Groundwater
7-PZ-26	7-PZ-26	AX94668	04/13/09	001A	Groundwater
MAFB-148	MAFB-148	AX94669	04/13/09	001A	Groundwater
MAFB-331	MAFB-331DF	AX94681	04/13/09	001A	Groundwater
MAFB-353	MAFB-353	AX94682	04/13/09	001A	Groundwater
MAFB-354B	MAFB-354(B)	AX94683	04/13/09	001A	Groundwater
MAFB-354D	MAFB-354(D)	AX94684	04/13/09	001A	Groundwater
MAFB-356B	MAFB-356(B)	AX94685	04/13/09	001A	Groundwater
MAFB-387B	MAFB-387(B)DF	AX94686	04/13/09	001A	Groundwater
MAFB-387Dd	MAFB-387(Dd)DF	AX94687	04/13/09	001A	Groundwater
MAFB-387Ds	MAFB-387(Ds)DF	AX94688	04/13/09	001A	Groundwater
MAFB-388B	MAFB-388(B)DF	AX94689	04/13/09	001A	Groundwater
MAFB-388Dd	MAFB-388(Dd)DF	AX94690	04/13/09	001A	Groundwater
MAFB-388Ds	MAFB-388(Ds)DF	AX94691	04/13/09	001A	Groundwater
MAFB-426	MAFB-426DF	AX94692	04/13/09	001A	Groundwater
MAFB-427	MAFB-427DF	AX94693	04/13/09	001A	Groundwater
MAFB-443	MAFB-443DF	AX94694	04/13/09	001A	Groundwater
MAFB-459D	MAFB-459(D)DF	AX94695	04/13/09	001A	Groundwater
MAFB-459Dd	MAFB-459(Dd)DF	AX94696	04/13/09	001A	Groundwater
TB-04/14/09	LF-MW-2	AX94798	04/14/09	001A	Trip Blank
MAFB-284	MAFB-284	AX94799	04/14/09	001A	Groundwater
MAFB-413	MAFB-413	AX94800	04/14/09	001A	Groundwater
MAFB-424	MAFB-424	AX94801	04/14/09	001A	Groundwater
MAFB-270	MAFB-270DF	AX94858	04/14/09	001A	Groundwater
MAFB-293	MAFB-293	AX94859	04/14/09	001A	Groundwater
MAFB-311	MAFB-311	AX94860	04/14/09	001A	Groundwater
MAFB-312	MAFB-312DF	AX94861	04/14/09	001A	Groundwater
MAFB-318	MAFB-318	AX94862	04/14/09	001A	Groundwater
MAFB-382B	MAFB-382(B)DF	AX94863	04/14/09	001A	Groundwater
MAFB-382D	MAFB-382(D)DF	AX94864	04/14/09	001A	Groundwater
MAFB-382B (FD)	MAFB-962	AX94865	04/14/09	001A	Field Duplicate
MAFB-323	MAFB-323DF	AX94866	04/14/09	001A	Groundwater
MAFB-327	MAFB-327	AX94867	04/14/09	001A	Groundwater
MAFB-330	MAFB-330DF	AX94868	04/14/09	001A	Groundwater
MAFB-336	MAFB-336DF	AX94869	04/14/09	001A	Groundwater
MAFB-349	MAFB-349	AX94870	04/14/09	001A	Groundwater
TB-04/14/09	OFB-MW-1	AX94871	04/14/09	001A	Trip Blank
7-PZ-37P	7-PZ-37(P)	AX94931	04/15/09	001A	Groundwater
7-PZ-37P (MS)	7-PZ-37(P)	AX94931	04/15/09	001A	Matrix Spike
7-PZ-37P (MSD)	7-PZ-37(P)	AX94931	04/15/09	001A	Matrix Spike Duplicate
TB-04/15/09	LF-MW-3	AX94932	04/15/09	001A	Trip Blank

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
7-PZ-37P (FD)	MAFB-954	AX94933	04/15/09	001A	Field Duplicate
MBS EW-10B (FD)	MAFB-976	AX95007	04/15/09	001A	Field Duplicate
MBS EW-10B	MBS EW-10B	AX95008	04/15/09	001A	Groundwater
MBS EW-10B (MS)	MBS EW-10B	AX95008	04/15/09	001A	Matrix Spike
MBS EW-10B (MSD)	MBS EW-10B	AX95008	04/15/09	001A	Matrix Spike Duplicate
MBS EW-11B	MBS EW-11B	AX95009	04/15/09	001A	Groundwater
MBS EW-12B	MBS EW-12B	AX95010	04/15/09	001A	Groundwater
MBS EW-13BuB	MBS EW-13Bu/B	AX95011	04/15/09	001A	Groundwater
MBS EW2ABu	MBS EW-2A/Bu	AX95012	04/15/09	001A	Groundwater
MBS EW-2AR	MBS EW-2AR	AX95013	04/15/09	001A	Groundwater
MBS EW-2B	MBS EW-2B	AX95014	04/15/09	001A	Groundwater
MBS EW-3Bu	MBS EW-3Bu DF	AX95015	04/15/09	001A	Groundwater
MBS EW4ABu	MBS EW-4A/Bu	AX95016	04/15/09	001A	Groundwater
MBS EW5ABu	MBS EW-5A/Bu	AX95017	04/15/09	001A	Groundwater
MBS EW-5B	MBS EW-5B	AX95018	04/15/09	001A	Groundwater
MBS EW-5D	MBS EW-5D	AX95019	04/15/09	001A	Groundwater
MBS EW-6B	MBS EW-6B	AX95020	04/15/09	001A	Groundwater
MBS EW-6D	MBS EW-6D	AX95021	04/15/09	001A	Groundwater
MBS EW-8B	MBS EW-8B	AX95022	04/15/09	001A	Groundwater
MBS PTE AF	MBS PTE AF	AX95053	04/16/09	001A	Pump and Treat Effluent
MBS EW-1Bu (FD)	MAFB-914	AX95054	04/16/09	001A	Field Duplicate
MBS PTI (FD)	MBS AS	AX95055	04/16/09	001A	Field Duplicate
MBS EW-1B	MBS EW-1B	AX95056	04/16/09	001A	Groundwater
MBS EW-1Bu	MBS EW-1Bu	AX95057	04/16/09	001A	Groundwater
MBS EW-1Bu (MS)	MBS EW-1Bu	AX95057	04/16/09	001A	Matrix Spike
MBS EW-1Bu (MSD)	MBS EW-1Bu	AX95057	04/16/09	001A	Matrix Spike Duplicate
MBS EW-2D	MBS EW-2D	AX95058	04/16/09	001A	Groundwater
MBS EW-3D	MBS EW-3D	AX95059	04/16/09	001A	Groundwater
MBS EW-4Bu	MBS EW-4Bu	AX95060	04/16/09	001A	Groundwater
MBS EW-7B	MBS EW-7B	AX95061	04/16/09	001A	Groundwater
MBS EW-9B	MBS EW-9B	AX95062	04/16/09	001A	Groundwater
MBS PTE AF (FD)	MBS PTA	AX95063	04/16/09	001A	Field Duplicate
MBS PTE AF	MBS PTE AF	AX95064	04/16/09	001A	Pump and Treat Effluent
MBS PTE AF (MS)	MBS PTE AF	AX95064	04/16/09	001A	Matrix Spike
MBS PTE AF (MSD)	MBS PTE AF	AX95064	04/16/09	001A	Matrix Spike Duplicate
MBS PTI	MBS PTI	AX95065	04/16/09	001A	Pump and Treat Influent
MBS PTI (MS)	MBS PTI	AX95065	04/16/09	001A	Matrix Spike
MBS PTI (MSD)	MBS PTI	AX95065	04/16/09	001A	Matrix Spike Duplicate
7-PTE	7-PTE	AX95066	04/16/09	001A	Pump and Treat Effluent
7-PTI (FD)	7-AS	AX95067	04/16/09	001A	Field Duplicate
7-EW-1	7-EW-1	AX95068	04/16/09	001A	Groundwater
7-EW-2	7-EW-2	AX95069	04/16/09	001A	Groundwater
7-EW-2 (MS)	7-EW-2	AX95069	04/16/09	001A	Matrix Spike
7-EW-2 (MSD)	7-EW-2	AX95069	04/16/09	001A	Matrix Spike Duplicate
7-PTE	7-PTE	AX95070	04/16/09	001A	Pump and Treat Effluent
7-PTI	7-PTI	AX95071	04/16/09	001A	Pump and Treat Influent
7-PTI (MS)	7-PTI	AX95071	04/16/09	001A	Matrix Spike
7-PTI (MSD)	7-PTI	AX95071	04/16/09	001A	Matrix Spike Duplicate
7-EW-2 (FD)	MAFB-975	AX95072	04/16/09	001A	Field Duplicate
ACW PTE	ACW PTE	AX95083	04/16/09	001A	Pump and Treat Effluent
ACW PTI (FD)	ACW AS	AX95084	04/16/09	001A	Field Duplicate
ACW PTE (FD)	ACW PTD	AX95085	04/16/09	001A	Field Duplicate
ACW PTE	ACW PTE	AX95086	04/16/09	001A	Pump and Treat Effluent

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
ACW PTE (MS)	ACW PTE	AX95086	04/16/09	001A	Matrix Spike
ACW PTE (MSD)	ACW PTE	AX95086	04/16/09	001A	Matrix Spike Duplicate
ACW PTI	ACW PTI	AX95087	04/16/09	001A	Pump and Treat Influent
ACW PTI (MS)	ACW PTI	AX95087	04/16/09	001A	Matrix Spike
ACW PTI (MSD)	ACW PTI	AX95087	04/16/09	001A	Matrix Spike Duplicate
ACW R2	ACW R2	AX95088	04/16/09	001A	Groundwater
TB-04/16/09	MBS PTT	AX95183	04/16/09	001A	Trip Blank
MBS EW-3B (FD)	MAFB-923	AX95197	04/17/09	001A	Field Duplicate
MBS EW-12AB	MBS EW-12AB	AX95198	04/17/09	001A	Groundwater
MBS EW1ABu	MBS EW-1A/Bu	AX95199	04/17/09	001A	Groundwater
MBS EW-1D	MBS EW-1D	AX95200	04/17/09	001A	Groundwater
MBS 39ABuB	MBS EW-39A/Bu/B	AX95201	04/17/09	001A	Groundwater
MBS EW-3B	MBS EW-3B	AX95202	04/17/09	001A	Groundwater
MBS EW-3B (MS)	MBS EW-3B	AX95202	04/17/09	001A	Matrix Spike
MBS EW-3B (MSD)	MBS EW-3B	AX95202	04/17/09	001A	Matrix Spike Duplicate
MBS EW-4A	MBS EW-4A	AX95203	04/17/09	001A	Groundwater
MBS EW-4B	MBS EW-4B	AX95204	04/17/09	001A	Groundwater
MBS EW-4D	MBS EW-4D	AX95205	04/17/09	001A	Groundwater
MBS EW6ABu	MBS EW-6A/Bu	AX95206	04/17/09	001A	Groundwater
MBS EW7ABu	MBS EW-7A/Bu	AX95207	04/17/09	001A	Groundwater
TB-04/17/09	MBS-MW-1	AX95208	04/17/09	001A	Trip Blank
ACW AT-1	ACW AT-1	AX95209	04/17/09	001A	Groundwater
ACW AT-1 (MS)	ACW AT-1	AX95209	04/17/09	001A	Matrix Spike
ACW AT-1 (MSD)	ACW AT-1	AX95209	04/17/09	001A	Matrix Spike Duplicate
ACW AT-2	ACW AT-2	AX95210	04/17/09	001A	Groundwater
ACW EW-1	ACW EW-1	AX95211	04/17/09	001A	Groundwater
ACW EW-2	ACW EW-2	AX95212	04/17/09	001A	Groundwater
ACW EW-3	ACW EW-3	AX95213	04/17/09	001A	Groundwater
ACW EW-4	ACW EW-4	AX95214	04/17/09	001A	Groundwater
ACW EW-6R	ACW EW-6R	AX95215	04/17/09	001A	Groundwater
ACW AT-1 (FD)	MAFB-901	AX95216	04/17/09	001A	Field Duplicate
7-PZ-37	7-PZ-37	AX95273	04/20/09	001A	Groundwater
TB-04/20/09	LF-MW-1	AX95274	04/20/09	001A	Trip Blank
MAFB-328	MAFB-328DF	AX95286	04/20/09	001A	Groundwater
MAFB-337	MAFB-337	AX95287	04/20/09	001A	Groundwater
MAFB-338	MAFB-338DF	AX95288	04/20/09	001A	Groundwater
MAFB-319 (FD)	MAFB-911	AX95289	04/20/09	001A	Field Duplicate
MAFB-324 (FD)	MAFB-918	AX95290	04/20/09	001A	Field Duplicate
MAFB-271	MAFB-271	AX95291	04/20/09	001A	Groundwater
MAFB-319	MAFB-319DF	AX95292	04/20/09	001A	Groundwater
MAFB-321	MAFB-321DF	AX95293	04/20/09	001A	Groundwater
MAFB-322	MAFB-322	AX95294	04/20/09	001A	Groundwater
MAFB-324	MAFB-324	AX95295	04/20/09	001A	Groundwater
MAFB-324 (MS)	MAFB-324	AX95295	04/20/09	001A	Matrix Spike
MAFB-324 (MSD)	MAFB-324	AX95295	04/20/09	001A	Matrix Spike Duplicate
MAFB-326	MAFB-326	AX95296	04/20/09	001A	Groundwater
MAFB-380B	MAFB-380(B)DF	AX95297	04/20/09	001A	Groundwater
MAFB-380D	MAFB-380(D)DF	AX95298	04/20/09	001A	Groundwater
MAFB-385D	MAFB-385(D)DF	AX95299	04/20/09	001A	Groundwater
MAFB-412	MAFB-412	AX95300	04/20/09	001A	Groundwater
MAFB-437Dd	MAFB-437(Dd)DF	AX95301	04/20/09	001A	Groundwater
MAFB-437Ds	MAFB-437(Ds)DF	AX95302	04/20/09	001A	Groundwater
MAFB-380B (FD)	MAFB-963	AX95303	04/20/09	001A	Field Duplicate

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-261	MAFB-261DF	AX95335	04/21/09	001A	Groundwater
MAFB-263	MAFB-263DF	AX95336	04/21/09	001A	Groundwater
MAFB-269	MAFB-269	AX95337	04/21/09	001A	Groundwater
MAFB-332	MAFB-332DF	AX95338	04/21/09	001A	Groundwater
MAFB-346Bd	MAFB-346(Bd)DF	AX95339	04/21/09	001A	Groundwater
MAFB-346Bs	MAFB-346(Bs)DF	AX95340	04/21/09	001A	Groundwater
MAFB-346D	MAFB-346(D)DF	AX95341	04/21/09	001A	Groundwater
MAFB-351D	MAFB-351(D)	AX95342	04/21/09	001A	Groundwater
MAFB-368B	MAFB-368(B)	AX95343	04/21/09	001A	Groundwater
MAFB-368D	MAFB-368(D)	AX95344	04/21/09	001A	Groundwater
MAFB-368D (MS)	MAFB-368(D)	AX95344	04/21/09	001A	Matrix Spike
MAFB-368D (MSD)	MAFB-368(D)	AX95344	04/21/09	001A	Matrix Spike Duplicate
MAFB-381B	MAFB-381(B)DF	AX95345	04/21/09	001A	Groundwater
MAFB-381D	MAFB-381(D)DF	AX95346	04/21/09	001A	Groundwater
MAFB-411	MAFB-411	AX95347	04/21/09	001A	Groundwater
MAFB-368D (FD)	MAFB-955	AX95348	04/21/09	001A	Field Duplicate
MAFB-411 (FD)	MAFB-974	AX95349	04/21/09	001A	Field Duplicate
TB-04/21/09	MBS-MW-10	AX95350	04/21/09	001A	Trip Blank
MAFB-129	MAFB-129	AX95352	04/21/09	001A	Groundwater
TB-04/22/09	ACW-MW-1	AX95441	04/22/09	001A	Trip Blank
MAFB-067	MAFB-067DF	AX95442	04/22/09	001A	Groundwater
MAFB-068	MAFB-068DF	AX95443	04/22/09	001A	Groundwater
MAFB-069	MAFB-069DF	AX95444	04/22/09	001A	Groundwater
MAFB-401	MAFB-401	AX95445	04/22/09	001A	Groundwater
MAFB-402	MAFB-402	AX95446	04/22/09	001A	Groundwater
MAFB-403	MAFB-403	AX95447	04/22/09	001A	Groundwater
MAFB-408	MAFB-408	AX95448	04/22/09	001A	Groundwater
MAFB-401 (FD)	MAFB-961	AX95449	04/22/09	001A	Field Duplicate
MAFB-068 (FD)	MAFB-977	AX95450	04/22/09	001A	Field Duplicate
ACW PZ-09C	ACW PZ-09C DF	AX95477	04/23/09	001A	Groundwater
ACW PZ-10C	ACW PZ-10C DF	AX95478	04/23/09	001A	Groundwater
MAFB-453C	MAFB-453(C)DF	AX95479	04/23/09	001A	Groundwater
MAFB-453	MAFB-453DF	AX95480	04/23/09	001A	Groundwater
MAFB-294	MAFB-294	AX95481	04/23/09	001A	Groundwater
TB-04/23/09	LF-MW-4	AX95482	04/23/09	001A	Trip Blank
MAFB-111	MAFB-111	AX95483	04/23/09	001A	Groundwater
MAFB-288	MAFB-288	AX95484	04/23/09	001A	Groundwater
MAFB-400	MAFB-400	AX95485	04/23/09	001A	Groundwater
MAFB-400 (FD)	MAFB-935	AX95486	04/23/09	001A	Field Duplicate
ACW PZ-06C	ACW PZ-06C DF	AX95784	04/24/09	001A	Groundwater
ACW PZ-07C	ACW PZ-07C DF	AX95785	04/24/09	001A	Groundwater
ACW PZ-08C	ACW PZ-08C DF	AX95786	04/24/09	001A	Groundwater
MAFB-053	MAFB-053	AX95787	04/24/09	001A	Groundwater
MAFB-078	MAFB-078DF	AX95788	04/24/09	001A	Groundwater
MAFB-194	MAFB-194DF	AX95789	04/24/09	001A	Groundwater
MAFB-194 (MS)	MAFB-194DF	AX95789	04/24/09	001A	Matrix Spike
MAFB-194 (MSD)	MAFB-194DF	AX95789	04/24/09	001A	Matrix Spike Duplicate
MAFB-196	MAFB-196DF	AX95790	04/24/09	001A	Groundwater
MAFB-432	MAFB-432DF	AX95791	04/24/09	001A	Groundwater
MAFB-454C	MAFB-454(C)DF	AX95792	04/24/09	001A	Groundwater
MAFB-454	MAFB-454DF	AX95793	04/24/09	001A	Groundwater
MAFB-259	MAFB-259	AX95794	04/24/09	001A	Groundwater
MAFB-260	MAFB-260DF	AX95795	04/24/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-267	MAFB-267	AX95796	04/24/09	001A	Groundwater
MAFB-268	MAFB-268DF	AX95797	04/24/09	001A	Groundwater
MAFB-449Bd	MAFB-449(Bd)DF	AX95798	04/24/09	001A	Groundwater
MAFB-449Bs	MAFB-449(Bs)DF	AX95799	04/24/09	001A	Groundwater
MAFB-457Bd	MAFB-457(Bd)DF	AX95800	04/24/09	001A	Groundwater
MAFB-457Bs	MAFB-457(Bs)DF	AX95801	04/24/09	001A	Groundwater
MAFB-458Bd	MAFB-458(Bd)DF	AX95802	04/24/09	001A	Groundwater
MAFB-458Bs	MAFB-458(Bs)DF	AX95803	04/24/09	001A	Groundwater
MAFB-457Bs (FD)	MAFB-900	AX95804	04/24/09	001A	Field Duplicate
TB-04/24/09	MBS-MW-13	AX95805	04/24/09	001A	Trip Blank
TB-04/27/09	ACW PTT	AX95837	04/27/09	001A	Trip Blank
ACW PZ-02	ACW PZ-02DF	AX95838	04/27/09	001A	Groundwater
ACW PZ-05	ACW PZ-05DF	AX95839	04/27/09	001A	Groundwater
MAFB-301	MAFB-301	AX95840	04/27/09	001A	Groundwater
MAFB-301 (MS)	MAFB-301	AX95840	04/27/09	001A	Matrix Spike
MAFB-301 (MSD)	MAFB-301	AX95840	04/27/09	001A	Matrix Spike Duplicate
MAFB-302	MAFB-302	AX95841	04/27/09	001A	Groundwater
MAFB-433	MAFB-433DF	AX95842	04/27/09	001A	Groundwater
MAFB-455	MAFB-455DF	AX95843	04/27/09	001A	Groundwater
MAFB-456C	MAFB-456(C)DF	AX95844	04/27/09	001A	Groundwater
MAFB-301 (FD)	MAFB-936	AX95845	04/27/09	001A	Field Duplicate
MAFB-433 (FD)	MAFB-942	AX95846	04/27/09	001A	Field Duplicate
OFB-31	GOULD	AX95948	04/28/09	001A	Groundwater
OFB-51/52I	JH INFLUENT	AX95949	04/28/09	001A	GAC Influent
OFB-51/52M	JH MID-GAC	AX95950	04/28/09	001A	Mid-GAC
OFB-51	JH1	AX95951	04/28/09	001A	Groundwater
OFB-52	JH2	AX95952	04/28/09	001A	Groundwater
OFB-52 (MS)	JH2	AX95952	04/28/09	001A	Matrix Spike
OFB-52 (MSD)	JH2	AX95952	04/28/09	001A	Matrix Spike Duplicate
OFB-27 (FD)	MAFB-926	AX95953	04/28/09	001A	Field Duplicate
OFB-52 (FD)	MAFB-927	AX95954	04/28/09	001A	Field Duplicate
OFB-27	MARS	AX95955	04/28/09	001A	Groundwater
OFB-27 (MS)	MARS	AX95955	04/28/09	001A	Matrix Spike
OFB-27 (MSD)	MARS	AX95955	04/28/09	001A	Matrix Spike Duplicate
OFB-04	MOONBEAM INFLUENT	AX95956	04/28/09	001A	GAC Influent
OFB-04M	MOONBEAM MID-GAC	AX95957	04/28/09	001A	Mid-GAC
OFB-32	NUT PLAINS	AX95958	04/28/09	001A	Groundwater
OFB-49	OAKEN BUCKET	AX95959	04/28/09	001A	Groundwater
TB-04/28/09	OFB-MW-2	AX95960	04/28/09	001A	Trip Blank
OFB-54	SOUTH PORT	AX95961	04/28/09	001A	Groundwater
OFB-56	TALLYHO #2	AX95962	04/28/09	001A	Groundwater
MAFB-013	MAFB-013	AX96068	04/29/09	001A	Groundwater
MAFB-104	MAFB-104	AX96069	04/29/09	001A	Groundwater
MAFB-151	MAFB-151	AX96070	04/29/09	001A	Groundwater
MAFB-175	MAFB-175	AX96071	04/29/09	001A	Groundwater
MAFB-247	MAFB-247	AX96072	04/29/09	001A	Groundwater
MAFB-249	MAFB-249	AX96073	04/29/09	001A	Groundwater
MAFB-258	MAFB-258	AX96074	04/29/09	001A	Groundwater
MAFB-364B	MAFB-364(B)	AX96075	04/29/09	001A	Groundwater
MAFB-364D	MAFB-364(D)	AX96076	04/29/09	001A	Groundwater
MAFB-365B	MAFB-365(B)DF	AX96077	04/29/09	001A	Groundwater
MAFB-365D	MAFB-365(D)	AX96078	04/29/09	001A	Groundwater
MAFB-369	MAFB-369	AX96079	04/29/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-423B	MAFB-423(B)DF	AX96080	04/29/09	001A	Groundwater
MAFB-423	MAFB-423DF	AX96081	04/29/09	001A	Groundwater
MAFB-441	MAFB-441DF	AX96082	04/29/09	001A	Groundwater
MAFB-451	MAFB-451DF	AX96083	04/29/09	001A	Groundwater
MAFB-452B	MAFB-452(B)DF	AX96084	04/29/09	001A	Groundwater
MAFB-452Bu	MAFB-452(Bu)DF	AX96085	04/29/09	001A	Groundwater
MAFB-423B (FD)	MAFB-981	AX96086	04/29/09	001A	Field Duplicate
MBS PZ-37	MBS PZ-37	AX96087	04/29/09	001A	Groundwater
TB-04/29/09	MBS-MW-3	AX96088	04/29/09	001A	Trip Blank
ACW PTE	ACW PTE	AX96201	04/30/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX96202	04/30/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX96203	04/30/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX96204	04/30/09	001A	Pump and Treat Effluent
TB-04/30/09	7-PTT	AX96205	04/30/09	001A	Trip Blank
FFS EW15-1	FFS-EW-15-1DF	AX96206	04/30/09	001A	Groundwater
FFS EW15-2	FFS-EW-15-2DF	AX96207	04/30/09	001A	Groundwater
FFS MW15-1	FFS-MW-15-1DF	AX96208	04/30/09	001A	Groundwater
FFS MW15-2	FFS-MW-15-2DF	AX96209	04/30/09	001A	Groundwater
FFS MW15-3	FFS-MW-15-3DF	AX96210	04/30/09	001A	Groundwater
MAFB-172	MAFB-172	AX96211	04/30/09	001A	Groundwater
MAFB-173	MAFB-173	AX96212	04/30/09	001A	Groundwater
MAFB-174	MAFB-174	AX96213	04/30/09	001A	Groundwater
MAFB-176	MAFB-176	AX96214	04/30/09	001A	Groundwater
MAFB-232	MAFB-232	AX96215	04/30/09	001A	Groundwater
MAFB-246	MAFB-246	AX96216	04/30/09	001A	Groundwater
MAFB-248	MAFB-248	AX96217	04/30/09	001A	Groundwater
MAFB-265	MAFB-265	AX96218	04/30/09	001A	Groundwater
MAFB-265 (MS)	MAFB-265	AX96218	04/30/09	001A	Matrix Spike
MAFB-265 (MSD)	MAFB-265	AX96218	04/30/09	001A	Matrix Spike Duplicate
MAFB-313	MAFB-313	AX96219	04/30/09	001A	Groundwater
MAFB-377	MAFB-377DF	AX96220	04/30/09	001A	Groundwater
MAFB-383B	MAFB-383(B)DF	AX96221	04/30/09	001A	Groundwater
MAFB-386D	MAFB-386(D)DF	AX96222	04/30/09	001A	Groundwater
MAFB-429Bd	MAFB-429(Bd)DF	AX96223	04/30/09	001A	Groundwater
MAFB-429Bs	MAFB-429(Bs)DF	AX96224	04/30/09	001A	Groundwater
MAFB-429Bu	MAFB-429(Bu)DF	AX96225	04/30/09	001A	Groundwater
MAFB-450	MAFB-450DF	AX96226	04/30/09	001A	Groundwater
MAFB-265 (FD)	MAFB-920	AX96227	04/30/09	001A	Field Duplicate
MAFB-429Bs (FD)	MAFB-921	AX96228	04/30/09	001A	Field Duplicate
MAFB-059	MAFB-059DF	AX96244	05/01/09	001A	Groundwater
MAFB-347	MAFB-347	AX96245	05/01/09	001A	Groundwater
MAFB-348B	MAFB-348(B)DF	AX96246	05/01/09	001A	Groundwater
MAFB-348Dd	MAFB-348(Dd)	AX96247	05/01/09	001A	Groundwater
MAFB-348Ds	MAFB-348(Ds)	AX96248	05/01/09	001A	Groundwater
MAFB-367	MAFB-367DF	AX96249	05/01/09	001A	Groundwater
MAFB-422	MAFB-422DF	AX96250	05/01/09	001A	Groundwater
MAFB-431Bd	MAFB-431(Bd)DF	AX96251	05/01/09	001A	Groundwater
MAFB-431Dd	MAFB-431(Dd)DF	AX96252	05/01/09	001A	Groundwater
MAFB-431Ds	MAFB-431(Ds)DF	AX96253	05/01/09	001A	Groundwater
MAFB-434Bd	MAFB-434(Bd)DF	AX96254	05/01/09	001A	Groundwater
MAFB-434Bs	MAFB-434(Bs)DF	AX96255	05/01/09	001A	Groundwater
MAFB-434Bs (MS)	MAFB-434(Bs)DF	AX96255	05/01/09	001A	Matrix Spike
MAFB-434Bs (MSD)	MAFB-434(Bs)DF	AX96255	05/01/09	001A	Matrix Spike Duplicate

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-434Bu	MAFB-434(Bu)DF	AX96256	05/01/09	001A	Groundwater
MAFB-434Bu (FD)	MAFB-983	AX96257	05/01/09	001A	Field Duplicate
MBS PZ-38	MBS PZ-38	AX96258	05/01/09	001A	Groundwater
TB-05/01/09	MBS-MW-4	AX96259	05/01/09	001A	Trip Blank
MAFB-181	MAFB-181	AX96291	05/04/09	001A	Groundwater
MAFB-200	MAFB-200	AX96292	05/04/09	001A	Groundwater
MAFB-200 (MS)	MAFB-200	AX96292	05/04/09	001A	Matrix Spike
MAFB-200 (MSD)	MAFB-200	AX96292	05/04/09	001A	Matrix Spike Duplicate
MAFB-215	MAFB-215	AX96293	05/04/09	001A	Groundwater
MAFB-215 (MS)	MAFB-215	AX96293	05/04/09	001A	Matrix Spike
MAFB-215 (MSD)	MAFB-215	AX96293	05/04/09	001A	Matrix Spike Duplicate
MAFB-290	MAFB-290	AX96294	05/04/09	001A	Groundwater
MAFB-329	MAFB-329DF	AX96295	05/04/09	001A	Groundwater
MAFB-352D	MAFB-352(D)DF	AX96296	05/04/09	001A	Groundwater
MAFB-352D (MS)	MAFB-352(D)DF	AX96296	05/04/09	001A	Matrix Spike
MAFB-352D (MSD)	MAFB-352(D)DF	AX96296	05/04/09	001A	Matrix Spike Duplicate
MAFB-366B	MAFB-366(B)	AX96297	05/04/09	001A	Groundwater
MAFB-366D	MAFB-366(D)DF	AX96298	05/04/09	001A	Groundwater
MAFB-425	MAFB-425DF	AX96299	05/04/09	001A	Groundwater
MAFB-438	MAFB-438DF	AX96300	05/04/09	001A	Groundwater
MAFB-215 (FD)	MAFB-932	AX96301	05/04/09	001A	Field Duplicate
MAFB-200 (FD)	MAFB-945	AX96302	05/04/09	001A	Field Duplicate
MAFB-366D (FD)	MAFB-956	AX96303	05/04/09	001A	Field Duplicate
MBS PZ-58	MBS PZ-58DF	AX96304	05/04/09	001A	Groundwater
TB-05/04/09	MBS-MW-5	AX96305	05/04/09	001A	Trip Blank
MAFB-193	MAFB-193	AX96306	05/04/09	001A	Groundwater
MAFB-198	MAFB-198	AX96307	05/04/09	001A	Groundwater
MAFB-306	MAFB-306	AX96308	05/04/09	001A	Groundwater
MAFB-391	MAFB-391DF	AX96331	05/05/09	001A	Groundwater
MAFB-393	MAFB-393DF	AX96332	05/05/09	001A	Groundwater
MAFB-394	MAFB-394DF	AX96333	05/05/09	001A	Groundwater
MAFB-395	MAFB-395DF	AX96334	05/05/09	001A	Groundwater
MAFB-396	MAFB-396DF	AX96335	05/05/09	001A	Groundwater
MAFB-395 (FD)	MAFB-931	AX96336	05/05/09	001A	Field Duplicate
MAFB-109	MAFB-109DF	AX96337	05/05/09	001A	Groundwater
TB-05/05/09	MBS-MW-2	AX96338	05/05/09	001A	Trip Blank
MAFB-006	MAFB-006	AX96404	05/06/09	001A	Groundwater
MAFB-094	MAFB-094	AX96405	05/06/09	001A	Groundwater
MAFB-096	MAFB-096	AX96406	05/06/09	001A	Groundwater
MAFB-155	MAFB-155	AX96407	05/06/09	001A	Groundwater
MAFB-180	MAFB-180	AX96408	05/06/09	001A	Groundwater
MAFB-273	MAFB-273	AX96409	05/06/09	001A	Groundwater
MAFB-291	MAFB-291DF	AX96410	05/06/09	001A	Groundwater
MAFB-292	MAFB-292	AX96411	05/06/09	001A	Groundwater
MAFB-292 (MS)	MAFB-292	AX96411	05/06/09	001A	Matrix Spike
MAFB-292 (MSD)	MAFB-292	AX96411	05/06/09	001A	Matrix Spike Duplicate
MAFB-375	MAFB-375DF	AX96412	05/06/09	001A	Groundwater
MAFB-376	MAFB-376DF	AX96413	05/06/09	001A	Groundwater
MAFB-378B	MAFB-378(B)DF	AX96414	05/06/09	001A	Groundwater
MAFB-378D	MAFB-378(D)DF	AX96415	05/06/09	001A	Groundwater
MAFB-378D (MS)	MAFB-378(D)DF	AX96415	05/06/09	001A	Matrix Spike
MAFB-378D (MSD)	MAFB-378(D)DF	AX96415	05/06/09	001A	Matrix Spike Duplicate
MAFB-379B	MAFB-379(B)DF	AX96416	05/06/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-379D	MAFB-379(D)DF	AX96417	05/06/09	001A	Groundwater
MAFB-397	MAFB-397DF	AX96418	05/06/09	001A	Groundwater
MAFB-435	MAFB-435DF	AX96419	05/06/09	001A	Groundwater
MAFB-155 (FD)	MAFB-905	AX96420	05/06/09	001A	Field Duplicate
MAFB-378B (FD)	MAFB-934	AX96421	05/06/09	001A	Field Duplicate
MAFB-292 (FD)	MAFB-941	AX96422	05/06/09	001A	Field Duplicate
MBS PZ-42D (FD)	MAFB-946	AX96423	05/06/09	001A	Field Duplicate
MAFB-376 (FD)	MAFB-957	AX96424	05/06/09	001A	Field Duplicate
MBS PZ-11	MBS PZ-11	AX96425	05/06/09	001A	Groundwater
MBS PZ-42D	MBS PZ-42(D)DF	AX96426	05/06/09	001A	Groundwater
MBS PZ-42S	MBS PZ-42(S)	AX96427	05/06/09	001A	Groundwater
TB-05/06/09	MBS-MW-17	AX96428	05/06/09	001A	Trip Blank
MAFB-282	MAFB-282DF	AX96491	05/07/09	001A	Groundwater
MAFB-340	MAFB-340	AX96492	05/07/09	001A	Groundwater
MAFB-342	MAFB-342DF	AX96493	05/07/09	001A	Groundwater
MAFB-357D	MAFB-357(D)DF	AX96494	05/07/09	001A	Groundwater
MAFB-357Dd	MAFB-357(Dd)DF	AX96495	05/07/09	001A	Groundwater
MAFB-357Ds	MAFB-357(Ds)DF	AX96496	05/07/09	001A	Groundwater
MAFB-358B	MAFB-358(B)	AX96497	05/07/09	001A	Groundwater
MAFB-358D	MAFB-358(D)	AX96498	05/07/09	001A	Groundwater
MAFB-357D (FD)	MAFB-972	AX96499	05/07/09	001A	Field Duplicate
TB-05/07/09	MBS-MW-16	AX96500	05/07/09	001A	Trip Blank
MAFB-047	MAFB-047	AX96534	05/08/09	001A	Groundwater
MAFB-047 (MS)	MAFB-047	AX96534	05/08/09	001A	Matrix Spike
MAFB-047 (MSD)	MAFB-047	AX96534	05/08/09	001A	Matrix Spike Duplicate
MAFB-060	MAFB-060	AX96535	05/08/09	001A	Groundwater
MAFB-167	MAFB-167	AX96536	05/08/09	001A	Groundwater
MAFB-229	MAFB-229	AX96537	05/08/09	001A	Groundwater
MAFB-231	MAFB-231	AX96538	05/08/09	001A	Groundwater
MAFB-274	MAFB-274	AX96539	05/08/09	001A	Groundwater
MAFB-341	MAFB-341	AX96540	05/08/09	001A	Groundwater
MAFB-384B	MAFB-384(B)DF	AX96541	05/08/09	001A	Groundwater
MAFB-384D	MAFB-384(D)DF	AX96542	05/08/09	001A	Groundwater
MAFB-407	MAFB-407	AX96543	05/08/09	001A	Groundwater
MAFB-047 (FD)	MAFB-917	AX96544	05/08/09	001A	Field Duplicate
MBS PZ-50D	MBS PZ-50(D)	AX96545	05/08/09	001A	Groundwater
MBS PZ-50S	MBS PZ-50(S)	AX96546	05/08/09	001A	Groundwater
TB-05/08/09	MBS-MW-11	AX96547	05/08/09	001A	Trip Blank
MAFB-062	MAFB-062DF	AX96570	05/11/09	001A	Groundwater
MAFB-170	MAFB-170	AX96571	05/11/09	001A	Groundwater
MAFB-171	MAFB-171	AX96572	05/11/09	001A	Groundwater
MAFB-177	MAFB-177	AX96573	05/11/09	001A	Groundwater
MAFB-199	MAFB-199DF	AX96574	05/11/09	001A	Groundwater
MAFB-230	MAFB-230	AX96575	05/11/09	001A	Groundwater
MAFB-239	MAFB-239DF	AX96576	05/11/09	001A	Groundwater
MAFB-361	MAFB-361	AX96577	05/11/09	001A	Groundwater
TB-05/11/09	MBS-MW-9	AX96578	05/11/09	001A	Trip Blank
7-BV-01	7-BV-01	AX96619	05/12/09	001A	Groundwater
7-BV-01 (RE)	7-BV-01	AX96619	05/12/09	001A	Groundwater
7-BV-04	7-BV-04	AX96620	05/12/09	001A	Groundwater
7-BV-04 (RE)	7-BV-04	AX96620	05/12/09	001A	Groundwater
7-BV-06	7-BV-06	AX96621	05/12/09	001A	Groundwater
7-BV-06 (RE)	7-BV-06	AX96621	05/12/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
7-BV-08	7-BV-08	AX96622	05/12/09	001A	Groundwater
7-BV-08 (RE)	7-BV-08	AX96622	05/12/09	001A	Groundwater
7-PZ-38P	7-PZ-38(P)	AX96623	05/12/09	001A	Groundwater
TB-05/12/09	LF-MW-2	AX96624	05/12/09	001A	Trip Blank
7-BV-02	7-BV-02	AX96710	05/13/09	001A	Groundwater
7-BV-02 (MS)	7-BV-02	AX96710	05/13/09	001A	Matrix Spike
7-BV-02 (MSD)	7-BV-02	AX96710	05/13/09	001A	Matrix Spike Duplicate
7-BV-02 (RE)	7-BV-02	AX96710	05/13/09	001A	Groundwater
7-BV-07	7-BV-07	AX96711	05/13/09	001A	Groundwater
7-BV-07 (RE)	7-BV-07	AX96711	05/13/09	001A	Groundwater
7-BV-13	7-BV-13	AX96712	05/13/09	001A	Groundwater
TB-05/13/09	LF-MW-3	AX96713	05/13/09	001A	Trip Blank
7-BV-02 (FD)	MAFB-951	AX96714	05/13/09	001A	Field Duplicate
7-BV-02 (FD)(RE)	MAFB-951	AX96714	05/13/09	001A	Field Duplicate
MAFB-168	MAFB-168DF	AX96715	05/13/09	001A	Groundwater
MAFB-201	MAFB-201	AX96716	05/13/09	001A	Groundwater
MAFB-240	MAFB-240	AX96717	05/13/09	001A	Groundwater
MAFB-266	MAFB-266	AX96718	05/13/09	001A	Groundwater
MAFB-359	MAFB-359	AX96719	05/13/09	001A	Groundwater
MBS PZ-55B	MBS PZ-55B DF	AX96720	05/13/09	001A	Groundwater
MBS PZ-55Bu	MBS PZ-55Bu DF	AX96721	05/13/09	001A	Groundwater
MBS PTE AF	MBS PTE AF	AX96753	05/14/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AX96754	05/14/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX96755	05/14/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX96756	05/14/09	001A	Pump and Treat Effluent
TB-05/14/09	7-PTT	AX96757	05/14/09	001A	Trip Blank
MAFB-063	MAFB-063DF	AX96758	05/14/09	001A	Groundwater
MAFB-164	MAFB-164DF	AX96759	05/14/09	001A	Groundwater
MAFB-205	MAFB-205	AX96760	05/14/09	001A	Groundwater
MAFB-216	MAFB-216	AX96761	05/14/09	001A	Groundwater
MAFB-216 (MS)	MAFB-216	AX96761	05/14/09	001A	Matrix Spike
MAFB-216 (MSD)	MAFB-216	AX96761	05/14/09	001A	Matrix Spike Duplicate
MAFB-220	MAFB-220	AX96762	05/14/09	001A	Groundwater
MAFB-227	MAFB-227	AX96763	05/14/09	001A	Groundwater
MAFB-235	MAFB-235DF	AX96764	05/14/09	001A	Groundwater
MAFB-243	MAFB-243	AX96765	05/14/09	001A	Groundwater
MAFB-264	MAFB-264	AX96766	05/14/09	001A	Groundwater
MAFB-363	MAFB-363DF	AX96767	05/14/09	001A	Groundwater
MAFB-216 (FD)	MAFB-950	AX96768	05/14/09	001A	Field Duplicate
MAFB-005	MAFB-005	AX96769	05/14/09	001A	Groundwater
MAFB-132	MAFB-132L	AX96770	05/14/09	001A	Groundwater
MAFB-398	MAFB-398	AX96771	05/14/09	001A	Groundwater
MAFB-398C	MAFB-398(C)	AX96772	05/14/09	001A	Groundwater
MAFB-214	MAFB-214	AX96889	05/18/09	001A	Groundwater
MAFB-223	MAFB-223	AX96890	05/18/09	001A	Groundwater
MAFB-362	MAFB-362	AX96891	05/18/09	001A	Groundwater
MAFB-430	MAFB-430DF	AX96892	05/18/09	001A	Groundwater
MAFB-442	MAFB-442DF	AX96893	05/18/09	001A	Groundwater
MBS PZ-51	MBS PZ-51DF	AX96894	05/18/09	001A	Groundwater
TB-05/18/09	MBS-MW-3	AX96895	05/18/09	001A	Trip Blank
MAFB-131	MAFB-131	AX96896	05/18/09	001A	Groundwater
MAFB-133	MAFB-133L	AX96897	05/18/09	001A	Groundwater
MAFB-133 (MS)	MAFB-133L	AX96897	05/18/09	001A	Matrix Spike

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-133 (MSD)	MAFB-133L	AX96897	05/18/09	001A	Matrix Spike Duplicate
MAFB-136	MAFB-136L	AX96898	05/18/09	001A	Groundwater
MAFB-140	MAFB-140	AX96899	05/18/09	001A	Groundwater
MAFB-133 (FD)	MAFB-948	AX96900	05/18/09	001A	Field Duplicate
TB-05/19/09	LF-MW-4	AX96958	05/19/09	001A	Trip Blank
MAFB-112	MAFB-112	AX96959	05/19/09	001A	Groundwater
MAFB-399	MAFB-399	AX96960	05/19/09	001A	Groundwater
MAFB-440	MAFB-440	AX96961	05/19/09	001A	Groundwater
MAFB-440P	MAFB-440(P)	AX96962	05/19/09	001A	Groundwater
MAFB-222	MAFB-222	AX96963	05/19/09	001A	Groundwater
MAFB-242	MAFB-242	AX96964	05/19/09	001A	Groundwater
MBS PZ-12	MBS PZ-12	AX96965	05/19/09	001A	Groundwater
MBS PZ-13	MBS PZ-13	AX96966	05/19/09	001A	Groundwater
MBS PZ-14	MBS PZ-14	AX96967	05/19/09	001A	Groundwater
MBS PZ-15	MBS PZ-15	AX96968	05/19/09	001A	Groundwater
MBS PZ-44	MBS PZ-44DF	AX96969	05/19/09	001A	Groundwater
MBS PZ-44 (MS)	MBS PZ-44DF	AX96969	05/19/09	001A	Matrix Spike
MBS PZ-44 (MSD)	MBS PZ-44DF	AX96969	05/19/09	001A	Matrix Spike Duplicate
MBS PZ-49D	MBS PZ-49(D)DF	AX96970	05/19/09	001A	Groundwater
MBS PZ-54	MBS PZ-54DF	AX96971	05/19/09	001A	Groundwater
FFS MW15-6	FFS-MW15-6DF	AX97104	05/20/09	001A	Groundwater
MAFB-048	MAFB-048	AX97105	05/20/09	001A	Groundwater
MAFB-061	MAFB-061	AX97106	05/20/09	001A	Groundwater
MAFB-101	MAFB-101DF	AX97107	05/20/09	001A	Groundwater
MAFB-102	MAFB-102	AX97108	05/20/09	001A	Groundwater
MAFB-211	MAFB-211	AX97109	05/20/09	001A	Groundwater
MAFB-217	MAFB-217	AX97110	05/20/09	001A	Groundwater
MAFB-224	MAFB-224	AX97111	05/20/09	001A	Groundwater
MAFB-410	MAFB-410	AX97112	05/20/09	001A	Groundwater
MBS PZ-52	MBS PZ-52DF	AX97113	05/20/09	001A	Groundwater
TB-05/20/09	MBS-MW-12	AX97114	05/20/09	001A	Trip Blank
MAFB-033	MAFB-033	AX97212	05/21/09	001A	Groundwater
MAFB-122	MAFB-122	AX97213	05/21/09	001A	Groundwater
MAFB-203	MAFB-203	AX97214	05/21/09	001A	Groundwater
MAFB-204	MAFB-204	AX97215	05/21/09	001A	Groundwater
MAFB-218	MAFB-218	AX97216	05/21/09	001A	Groundwater
MAFB-308	MAFB-308DF	AX97217	05/21/09	001A	Groundwater
MAFB-314	MAFB-314	AX97218	05/21/09	001A	Groundwater
MAFB-314 (RE)	MAFB-314	AX97218	05/21/09	001A	Groundwater
MAFB-320	MAFB-320	AX97219	05/21/09	001A	Groundwater
MAFB-417	MAFB-417	AX97220	05/21/09	001A	Groundwater
MAFB-419	MAFB-419	AX97221	05/21/09	001A	Groundwater
MAFB-428	MAFB-428	AX97222	05/21/09	001A	Groundwater
TB-05/21/09	MBS-MW-2	AX97223	05/21/09	001A	Trip Blank
MAFB-221	MAFB-221	AX97305	05/22/09	001A	Groundwater
MAFB-250	MAFB-250	AX97306	05/22/09	001A	Groundwater
MAFB-404	MAFB-404DF	AX97307	05/22/09	001A	Groundwater
MAFB-405	MAFB-405DF	AX97308	05/22/09	001A	Groundwater
MAFB-415	MAFB-415DF	AX97309	05/22/09	001A	Groundwater
MAFB-418	MAFB-418DF	AX97310	05/22/09	001A	Groundwater
MAFB-405 (FD)	MAFB-910	AX97311	05/22/09	001A	Field Duplicate
TB-05/22/09	MBS-MW-15	AX97312	05/22/09	001A	Trip Blank
MAFB-090	MAFB-090	AX97403	05/26/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-206	MAFB-206	AX97404	05/26/09	001A	Groundwater
MAFB-414	MAFB-414	AX97405	05/26/09	001A	Groundwater
MAFB-439	MAFB-439	AX97406	05/26/09	001A	Groundwater
MAFB-414 (FD)	MAFB-913	AX97407	05/26/09	001A	Field Duplicate
TB-05/26/09	MBS-MW-9	AX97408	05/26/09	001A	Trip Blank
MAFB-456	MAFB-456DF	AX97409	05/26/09	001A	Groundwater
OFB-51/52M	JH MID-GAC	AX97410	05/26/09	001A	Mid-GAC
OFB-51/52I	JH INFLUENT	AX97411	05/26/09	001A	GAC Influent
OFB-04	MOONBEAM INFLUENT	AX97412	05/26/09	001A	GAC Influent
OFB-04M	MOONBEAM MID-GAC	AX97413	05/26/09	001A	Mid-GAC
MAFB-042	MAFB-042DF	AX97489	05/27/09	001A	Groundwater
MAFB-285	MAFB-285DF	AX97490	05/27/09	001A	Groundwater
MAFB-297	MAFB-297DF	AX97491	05/27/09	001A	Groundwater
MAFB-300	MAFB-300	AX97492	05/27/09	001A	Groundwater
MAFB-370	MAFB-370DF	AX97493	05/27/09	001A	Groundwater
MAFB-371C	MAFB-371(C)DF	AX97494	05/27/09	001A	Groundwater
MAFB-371D	MAFB-371(D)DF	AX97495	05/27/09	001A	Groundwater
MAFB-372B	MAFB-372(B)	AX97496	05/27/09	001A	Groundwater
MAFB-372D	MAFB-372(D)DF	AX97497	05/27/09	001A	Groundwater
MAFB-373C	MAFB-373(C)DF	AX97498	05/27/09	001A	Groundwater
MAFB-373D	MAFB-373(D)DF	AX97499	05/27/09	001A	Groundwater
MAFB-373D (MS)	MAFB-373(D)DF	AX97499	05/27/09	001A	Matrix Spike
MAFB-373D (MSD)	MAFB-373(D)DF	AX97499	05/27/09	001A	Matrix Spike Duplicate
MAFB-444	MAFB-444DF	AX97500	05/27/09	001A	Groundwater
MAFB-445	MAFB-445DF	AX97501	05/27/09	001A	Groundwater
MAFB-446	MAFB-446DF	AX97502	05/27/09	001A	Groundwater
MAFB-447	MAFB-447DF	AX97503	05/27/09	001A	Groundwater
MAFB-448	MAFB-448DF	AX97504	05/27/09	001A	Groundwater
MAFB-373C (FD)	MAFB-903	AX97505	05/27/09	001A	Field Duplicate
MAFB-446 (FD)	MAFB-908	AX97506	05/27/09	001A	Field Duplicate
TB-05/27/09	ST7-MW-2	AX97507	05/27/09	001A	Trip Blank
ACW PTE	ACW PTE	AX97563	05/28/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX97564	05/28/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX97565	05/28/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX97566	05/28/09	001A	Pump and Treat Effluent
TB-05/28/09	7-PTT	AX97567	05/28/09	001A	Trip Blank
MAFB-209	MAFB-209	AX97568	05/28/09	001A	Groundwater
MAFB-210	MAFB-210	AX97569	05/28/09	001A	Groundwater
MAFB-228	MAFB-228	AX97570	05/28/09	001A	Groundwater
MAFB-339	MAFB-339DF	AX97571	05/28/09	001A	Groundwater
MAFB-374	MAFB-374DF	AX97572	05/28/09	001A	Groundwater
MAFB-420	MAFB-420DF	AX97573	05/28/09	001A	Groundwater
MAFB-420 (RE)	MAFB-420DF	AX97573	05/28/09	001A	Groundwater
MBS PZ-39	MBS PZ-39	AX97574	05/28/09	001A	Groundwater
MBS PZ-53	MBS PZ-53DF	AX97575	05/28/09	001A	Groundwater
MAFB-123	MAFB-123	AX97688	05/29/09	001A	Groundwater
MAFB-159	MAFB-159	AX97689	05/29/09	001A	Groundwater
MAFB-202	MAFB-202	AX97690	05/29/09	001A	Groundwater
MAFB-207	MAFB-207	AX97691	05/29/09	001A	Groundwater
MAFB-212	MAFB-212	AX97692	05/29/09	001A	Groundwater
MAFB-296	MAFB-296DF	AX97693	05/29/09	001A	Groundwater
TB-05/29/09	MBS-MW-7	AX97694	05/29/09	001A	Trip Blank
OFB-53 (FD)	MAFB-906	AX97705	06/01/09	001A	Field Duplicate

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
OFB-69 (FD)	MAFB-980	AX97706	06/01/09	001A	Field Duplicate
OFB-06	OFB-06	AX97707	06/01/09	001A	Groundwater
OFB-07	OFB-07	AX97708	06/01/09	001A	Groundwater
OFB-09	OFB-09	AX97709	06/01/09	001A	Groundwater
OFB-12	OFB-12	AX97710	06/01/09	001A	Groundwater
OFB-17	OFB-17	AX97711	06/01/09	001A	Groundwater
OFB-17 (MS)	OFB-17	AX97711	06/01/09	001A	Matrix Spike
OFB-17 (MSD)	OFB-17	AX97711	06/01/09	001A	Matrix Spike Duplicate
OFB-24	OFB-24	AX97712	06/01/09	001A	Groundwater
OFB-39	OFB-39	AX97713	06/01/09	001A	Groundwater
OFB-40	OFB-40	AX97714	06/01/09	001A	Groundwater
OFB-43	OFB-43	AX97715	06/01/09	001A	Groundwater
OFB-46	OFB-46	AX97716	06/01/09	001A	Groundwater
OFB-47	OFB-47	AX97717	06/01/09	001A	Groundwater
OFB-48	OFB-48	AX97718	06/01/09	001A	Groundwater
OFB-53	OFB-53	AX97719	06/01/09	001A	Groundwater
OFB-57	OFB-57	AX97720	06/01/09	001A	Groundwater
OFB-67	OFB-67	AX97721	06/01/09	001A	Groundwater
OFB-68	OFB-68	AX97722	06/01/09	001A	Groundwater
OFB-69	OFB-69	AX97723	06/01/09	001A	Groundwater
OFB-69 (MS)	OFB-69	AX97723	06/01/09	001A	Matrix Spike
OFB-69 (MSD)	OFB-69	AX97723	06/01/09	001A	Matrix Spike Duplicate
OFB-70	OFB-70	AX97724	06/01/09	001A	Groundwater
OFB-71	OFB-71	AX97725	06/01/09	001A	Groundwater
OFB-72	OFB-72	AX97726	06/01/09	001A	Groundwater
OFB-73	OFB-73	AX97727	06/01/09	001A	Groundwater
OFB-74	OFB-74	AX97728	06/01/09	001A	Groundwater
OFB-75	OFB-75	AX97729	06/01/09	001A	Groundwater
OFB-76	OFB-76	AX97730	06/01/09	001A	Groundwater
OFB-77	OFB-77	AX97731	06/01/09	001A	Groundwater
TB-06/01/09	OFB-MW-8	AX97732	06/01/09	001A	Trip Blank
OFB-17 (FD)	MAFB-938	AX97733	06/01/09	001A	Field Duplicate
OFB-81 (FD)	MAFB-985	AX97762	06/02/09	001A	Field Duplicate
MB-4	MB-4	AX97763	06/02/09	001A	Groundwater
OFB-78	OFB-78	AX97764	06/02/09	001A	Groundwater
OFB-79	OFB-79	AX97765	06/02/09	001A	Groundwater
OFB-80	OFB-80	AX97766	06/02/09	001A	Groundwater
OFB-81	OFB-81	AX97767	06/02/09	001A	Groundwater
TB-06/02/09	OFB-MW-6	AX97768	06/02/09	001A	Trip Blank
TB-06/02/09	OFB-MW-7	AX97769	06/02/09	001A	Trip Blank
ACW PTE	ACW PTE	AX98220	06/11/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX98221	06/11/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX98222	06/11/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX98223	06/11/09	001A	Pump and Treat Effluent
TB-06/11/09	7-PTT	AX98224	06/11/09	001A	Trip Blank
MAFB-251	MAFB-251DF	AX98330	06/15/09	001A	Groundwater
MAFB-344	MAFB-344DF	AX98331	06/15/09	001A	Groundwater
MAFB-191	MAFB-191DF	AX98332	06/15/09	001A	Groundwater
MAFB-041	MAFB-041DF	AX98333	06/15/09	001A	Groundwater
MAFB-056	MAFB-056DF	AX98334	06/15/09	001A	Groundwater
MAFB-392	MAFB-392DF	AX98335	06/15/09	001A	Groundwater
TB-06/15/09	ST7-MW-3	AX98336	06/15/09	001A	Trip Blank
OFB-82	OFB-82	AX98526	06/22/09	000A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 13)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
OFB-83	OFB-83	AX98527	06/22/09	000A	Groundwater
7-PTE	7-PTE	AX98767	06/25/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX98768	06/25/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AX98769	06/25/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX98770	06/25/09	001A	Pump and Treat Effluent
TB-06/25/09	7-PTT	AX98771	06/25/09	001A	Trip Blank
OFB-72	OFB-72	AX98919	06/29/09	001A	Groundwater
TB-06/29/09	OFB-MW-7	AX98920	06/29/09	001A	Trip Blank
OFB-51/52M	JH MID-GAC	AX99055	06/30/09	001A	Mid-GAC
OFB-51/52I	JH INFLUENT	AX99056	06/30/09	001A	GAC Influent
OFB-04	MOONBEAM INFLUENT	AX99057	06/30/09	001A	GAC Influent
OFB-04M	MOONBEAM MID-GAC	AX99058	06/30/09	001A	Mid-GAC
TB-06/30/09	OFB-MW-1	AX99059	06/30/09	001A	Trip Blank

Notes:
FD - Field Duplicate
GAC - Granulated Activated Carbon
Mid-GAC - Between GAC Canisters
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) Field Batch Identification corresponds to the ERPIMS Field LOTCTLNUM.

Trip blanks in the ERPIMS Identification column have been named as follows: TB - (date of collection).

4.0 HOLDING TIMES

The tables presented in this section correspond to Table A-6 of the Handbook (Appendix A, Tab 6). This Summary of Extraction and Analysis Dates is divided into 12 tables grouped by method (Tables 4-1.1 through 4-1.12).

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
7-BV-01	05/12/09	05/15/09	05/15/09
7-BV-02	05/13/09	05/15/09	05/15/09
7-BV-02 (FD)	05/13/09	05/15/09	05/15/09
7-BV-04	05/12/09	05/15/09	05/15/09
7-BV-06	05/12/09	05/15/09	05/15/09
7-BV-07	05/13/09	05/15/09	05/15/09
7-BV-08	05/12/09	05/15/09	05/15/09
7-BV-13	05/13/09	05/15/09	05/15/09
7-EW-1	04/16/09	04/29/09	04/29/09
7-EW-2	04/16/09	04/29/09	04/29/09
7-EW-2 (FD)	04/16/09	04/29/09	04/29/09
7-EW-2 (MS)	04/16/09	04/29/09	04/29/09
7-EW-2 (MSD)	04/16/09	04/29/09	04/29/09
7-PTE	04/16/09	04/27/09	04/27/09
7-PTE	06/25/09	06/29/09	06/29/09
7-PTE	04/02/09	04/10/09	04/10/09
7-PTE	04/30/09	05/06/09	05/06/09
7-PTE	06/11/09	06/12/09	06/12/09
7-PTE	05/28/09	05/29/09	05/29/09
7-PTE	05/14/09	05/18/09	05/18/09
7-PTI	04/16/09	04/29/09	04/29/09
7-PTI (FD)	04/16/09	04/29/09	04/29/09
7-PTI (MS)	04/16/09	04/29/09	04/29/09
7-PTI (MSD)	04/16/09	04/29/09	04/29/09
7-PZ-37	04/20/09	04/30/09	04/30/09
7-PZ-37P	04/15/09	04/27/09	04/27/09
7-PZ-37P (FD)	04/15/09	04/27/09	04/27/09
7-PZ-37P (MS)	04/15/09	04/27/09	04/27/09
7-PZ-37P (MSD)	04/15/09	04/27/09	04/27/09
7-PZ-38P	05/12/09	05/13/09	05/13/09
ACW AT-1	04/17/09	04/28/09	04/28/09
ACW AT-1 (FD)	04/17/09	04/28/09	04/28/09
ACW AT-1 (MS)	04/17/09	04/28/09	04/28/09
ACW AT-1 (MSD)	04/17/09	04/28/09	04/28/09
ACW AT-2	04/17/09	04/28/09	04/28/09
ACW EW-1	04/17/09	04/28/09	04/28/09
ACW EW-2	04/17/09	04/28/09	04/28/09
ACW EW-3	04/17/09	04/28/09	04/28/09
ACW EW-4	04/17/09	04/28/09	04/28/09
ACW EW-6R	04/17/09	04/28/09	04/28/09
ACW PTE	04/16/09	04/27/09	04/27/09
ACW PTE	06/11/09	06/12/09	06/12/09
ACW PTE	04/02/09	04/10/09	04/10/09
ACW PTE	06/25/09	06/29/09	06/29/09
ACW PTE	04/30/09	05/06/09	05/06/09
ACW PTE	05/28/09	05/29/09	05/29/09
ACW PTE	05/14/09	05/18/09	05/18/09
ACW PTI	04/16/09	04/29/09	04/29/09
ACW PTI (FD)	04/16/09	04/29/09	04/29/09
ACW PTI (MS)	04/16/09	04/29/09	04/29/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
ACW PTI (MSD)	04/16/09	04/29/09	04/29/09
ACW PZ-02	04/27/09	05/01/09	05/01/09
ACW PZ-05	04/27/09	05/01/09	05/01/09
ACW PZ-06C	04/24/09	05/01/09	05/01/09
ACW PZ-07C	04/24/09	05/01/09	05/01/09
ACW PZ-08C	04/24/09	05/01/09	05/01/09
ACW PZ-09C	04/23/09	05/01/09	05/01/09
ACW PZ-10C	04/23/09	05/01/09	05/01/09
ACW R2	04/16/09	04/29/09	04/29/09
FFS EW15-1	04/30/09	05/05/09	05/05/09
FFS EW15-2	04/30/09	05/05/09	05/05/09
FFS MW15-1	04/30/09	05/05/09	05/05/09
FFS MW15-2	04/30/09	05/05/09	05/05/09
FFS MW15-3	04/30/09	05/05/09	05/05/09
FFS MW15-6	05/20/09	05/21/09	05/21/09
MAFB-005	05/14/09	05/16/09	05/16/09
MAFB-006	05/06/09	05/09/09	05/09/09
MAFB-013	04/29/09	05/01/09	05/01/09
MAFB-033	05/21/09	05/22/09	05/22/09
MAFB-041	06/15/09	06/17/09	06/17/09
MAFB-042	05/27/09	05/30/09	05/30/09
MAFB-044	04/13/09	04/16/09	04/16/09
MAFB-047	05/08/09	05/11/09	05/11/09
MAFB-047 (FD)	05/08/09	05/12/09	05/12/09
MAFB-047 (MS)	05/08/09	05/12/09	05/12/09
MAFB-047 (MSD)	05/08/09	05/12/09	05/12/09
MAFB-048	05/20/09	05/22/09	05/22/09
MAFB-053	04/24/09	05/01/09	05/01/09
MAFB-056	06/15/09	06/17/09	06/17/09
MAFB-059	05/01/09	05/07/09	05/07/09
MAFB-060	05/08/09	05/12/09	05/12/09
MAFB-061	05/20/09	05/22/09	05/22/09
MAFB-062	05/11/09	05/13/09	05/13/09
MAFB-063	05/14/09	05/15/09	05/15/09
MAFB-067	04/22/09	04/30/09	04/30/09
MAFB-068	04/22/09	04/30/09	04/30/09
MAFB-068 (FD)	04/22/09	04/30/09	04/30/09
MAFB-069	04/22/09	04/30/09	04/30/09
MAFB-078	04/24/09	05/01/09	05/01/09
MAFB-090	05/26/09	05/28/09	05/28/09
MAFB-094	05/06/09	05/08/09	05/08/09
MAFB-096	05/06/09	05/08/09	05/08/09
MAFB-101	05/20/09	05/22/09	05/22/09
MAFB-102	05/20/09	05/22/09	05/22/09
MAFB-104	04/29/09	05/01/09	05/01/09
MAFB-109	05/05/09	05/07/09	05/07/09
MAFB-111	04/23/09	04/30/09	04/30/09
MAFB-112	05/19/09	05/21/09	05/21/09
MAFB-122	05/21/09	05/23/09	05/23/09
MAFB-123	05/29/09	06/03/09	06/03/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-129	04/21/09	04/30/09	04/30/09
MAFB-131	05/18/09	05/19/09	05/19/09
MAFB-132	05/14/09	05/16/09	05/16/09
MAFB-133	05/18/09	05/19/09	05/19/09
MAFB-133 (FD)	05/18/09	05/19/09	05/19/09
MAFB-133 (MS)	05/18/09	05/19/09	05/19/09
MAFB-133 (MSD)	05/18/09	05/19/09	05/19/09
MAFB-136	05/18/09	05/19/09	05/19/09
MAFB-148	04/13/09	04/27/09	04/27/09
MAFB-149	04/13/09	04/16/09	04/16/09
MAFB-151	04/29/09	05/01/09	05/01/09
MAFB-155	05/06/09	05/08/09	05/08/09
MAFB-155 (FD)	05/06/09	05/07/09	05/07/09
MAFB-159	05/29/09	06/05/09	06/05/09
MAFB-164	05/14/09	05/15/09	05/15/09
MAFB-167	05/08/09	05/12/09	05/12/09
MAFB-168	05/13/09	05/15/09	05/15/09
MAFB-170	05/11/09	05/13/09	05/13/09
MAFB-171	05/11/09	05/13/09	05/13/09
MAFB-172	04/30/09	05/06/09	05/06/09
MAFB-173	04/30/09	05/06/09	05/06/09
MAFB-174	04/30/09	05/06/09	05/06/09
MAFB-175	04/29/09	05/02/09	05/02/09
MAFB-176	04/30/09	05/06/09	05/06/09
MAFB-177	05/11/09	05/13/09	05/13/09
MAFB-180	05/06/09	05/08/09	05/08/09
MAFB-181	05/04/09	05/06/09	05/06/09
MAFB-191	06/15/09	06/17/09	06/17/09
MAFB-193	05/04/09	05/07/09	05/07/09
MAFB-194	04/24/09	05/01/09	05/01/09
MAFB-194 (MS)	04/24/09	05/01/09	05/01/09
MAFB-194 (MSD)	04/24/09	05/01/09	05/01/09
MAFB-196	04/24/09	05/01/09	05/01/09
MAFB-198	05/04/09	05/07/09	05/07/09
MAFB-199	05/11/09	05/13/09	05/13/09
MAFB-200	05/04/09	05/06/09	05/06/09
MAFB-200 (FD)	05/04/09	05/08/09	05/08/09
MAFB-200 (MS)	05/04/09	05/06/09	05/06/09
MAFB-200 (MSD)	05/04/09	05/06/09	05/06/09
MAFB-201	05/13/09	05/15/09	05/15/09
MAFB-202	05/29/09	06/05/09	06/05/09
MAFB-203	05/21/09	05/22/09	05/22/09
MAFB-204	05/21/09	05/23/09	05/23/09
MAFB-205	05/14/09	05/15/09	05/15/09
MAFB-206	05/26/09	05/28/09	05/28/09
MAFB-207	05/29/09	06/03/09	06/03/09
MAFB-209	05/28/09	06/02/09	06/02/09
MAFB-210	05/28/09	06/02/09	06/02/09
MAFB-211	05/20/09	05/22/09	05/22/09
MAFB-212	05/29/09	06/03/09	06/03/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-214	05/18/09	05/19/09	05/19/09
MAFB-215	05/04/09	05/06/09	05/06/09
MAFB-215 (FD)	05/04/09	05/07/09	05/07/09
MAFB-215 (MS)	05/04/09	05/06/09	05/06/09
MAFB-215 (MSD)	05/04/09	05/06/09	05/06/09
MAFB-216	05/14/09	05/15/09	05/15/09
MAFB-216 (FD)	05/14/09	05/16/09	05/16/09
MAFB-216 (MS)	05/14/09	05/16/09	05/16/09
MAFB-216 (MSD)	05/14/09	05/16/09	05/16/09
MAFB-217	05/20/09	05/22/09	05/22/09
MAFB-218	05/21/09	05/23/09	05/23/09
MAFB-220	05/14/09	05/15/09	05/15/09
MAFB-221	05/22/09	05/25/09	05/25/09
MAFB-222	05/19/09	05/21/09	05/21/09
MAFB-223	05/18/09	05/19/09	05/19/09
MAFB-224	05/20/09	05/22/09	05/22/09
MAFB-227	05/14/09	05/16/09	05/16/09
MAFB-228	05/28/09	06/02/09	06/02/09
MAFB-229	05/08/09	05/12/09	05/12/09
MAFB-230	05/11/09	05/13/09	05/13/09
MAFB-231	05/08/09	05/12/09	05/12/09
MAFB-232	04/30/09	05/06/09	05/06/09
MAFB-235	05/14/09	05/16/09	05/16/09
MAFB-239	05/11/09	05/15/09	05/15/09
MAFB-240	05/13/09	05/15/09	05/15/09
MAFB-242	05/19/09	05/21/09	05/21/09
MAFB-243	05/14/09	05/16/09	05/16/09
MAFB-246	04/30/09	05/06/09	05/06/09
MAFB-247	04/29/09	05/02/09	05/02/09
MAFB-248	04/30/09	05/06/09	05/06/09
MAFB-249	04/29/09	05/02/09	05/02/09
MAFB-250	05/22/09	05/25/09	05/25/09
MAFB-251	06/15/09	06/17/09	06/17/09
MAFB-258	04/29/09	05/02/09	05/02/09
MAFB-259	04/24/09	05/01/09	05/01/09
MAFB-260	04/24/09	05/01/09	05/01/09
MAFB-261	04/21/09	04/29/09	04/29/09
MAFB-263	04/21/09	04/29/09	04/29/09
MAFB-264	05/14/09	05/16/09	05/16/09
MAFB-265	04/30/09	05/06/09	05/06/09
MAFB-265 (FD)	04/30/09	05/06/09	05/06/09
MAFB-265 (MS)	04/30/09	05/06/09	05/06/09
MAFB-265 (MSD)	04/30/09	05/06/09	05/06/09
MAFB-266	05/13/09	05/15/09	05/15/09
MAFB-267	04/24/09	05/01/09	05/01/09
MAFB-268	04/24/09	05/01/09	05/01/09
MAFB-269	04/21/09	04/29/09	04/29/09
MAFB-270	04/14/09	04/26/09	04/26/09
MAFB-273	05/06/09	05/08/09	05/08/09
MAFB-274	05/08/09	05/12/09	05/12/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-282	05/07/09	05/13/09	05/13/09
MAFB-284	04/14/09	04/27/09	04/27/09
MAFB-285	05/27/09	05/30/09	05/30/09
MAFB-288	04/23/09	04/30/09	04/30/09
MAFB-290	05/04/09	05/06/09	05/06/09
MAFB-291	05/06/09	05/08/09	05/08/09
MAFB-292	05/06/09	05/08/09	05/08/09
MAFB-292 (FD)	05/06/09	05/07/09	05/07/09
MAFB-292 (MS)	05/06/09	05/08/09	05/08/09
MAFB-292 (MSD)	05/06/09	05/08/09	05/08/09
MAFB-293	04/14/09	04/26/09	04/26/09
MAFB-294	04/23/09	04/30/09	04/30/09
MAFB-296	05/29/09	06/03/09	06/03/09
MAFB-297	05/27/09	05/30/09	05/30/09
MAFB-300	05/27/09	05/30/09	05/30/09
MAFB-301	04/27/09	05/01/09	05/01/09
MAFB-301 (FD)	04/27/09	05/01/09	05/01/09
MAFB-301 (MS)	04/27/09	05/01/09	05/01/09
MAFB-301 (MSD)	04/27/09	05/01/09	05/01/09
MAFB-302	04/27/09	05/01/09	05/01/09
MAFB-306	05/04/09	05/07/09	05/07/09
MAFB-308	05/21/09	05/23/09	05/23/09
MAFB-311	04/14/09	04/26/09	04/26/09
MAFB-312	04/14/09	04/26/09	04/26/09
MAFB-313	04/30/09	05/06/09	05/06/09
MAFB-314	05/21/09	05/23/09	05/23/09
MAFB-314 (RE)	05/21/09	06/01/09	06/01/09
MAFB-318	04/14/09	04/26/09	04/26/09
MAFB-320	05/21/09	05/23/09	05/23/09
MAFB-329	05/04/09	05/06/09	05/06/09
MAFB-331	04/13/09	04/15/09	04/15/09
MAFB-332	04/21/09	04/29/09	04/29/09
MAFB-339	05/28/09	06/02/09	06/02/09
MAFB-340	05/07/09	05/13/09	05/13/09
MAFB-341	05/08/09	05/12/09	05/12/09
MAFB-342	05/07/09	05/13/09	05/13/09
MAFB-344	06/15/09	06/17/09	06/17/09
MAFB-346Bd	04/21/09	04/29/09	04/29/09
MAFB-346Bs	04/21/09	04/29/09	04/29/09
MAFB-346D	04/21/09	04/29/09	04/29/09
MAFB-347	05/01/09	05/07/09	05/07/09
MAFB-348B	05/01/09	05/07/09	05/07/09
MAFB-348Dd	05/01/09	05/07/09	05/07/09
MAFB-348Ds	05/01/09	05/07/09	05/07/09
MAFB-351D	04/21/09	04/29/09	04/29/09
MAFB-352D	05/04/09	05/06/09	05/06/09
MAFB-352D (MS)	05/04/09	05/06/09	05/06/09
MAFB-352D (MSD)	05/04/09	05/06/09	05/06/09
MAFB-353	04/13/09	04/15/09	04/15/09
MAFB-354B	04/13/09	04/15/09	04/15/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-354D	04/13/09	04/15/09	04/15/09
MAFB-356B	04/13/09	04/16/09	04/16/09
MAFB-357D	05/07/09	05/13/09	05/13/09
MAFB-357D (FD)	05/07/09	05/13/09	05/13/09
MAFB-357Dd	05/07/09	05/13/09	05/13/09
MAFB-357Ds	05/07/09	05/13/09	05/13/09
MAFB-358B	05/07/09	05/13/09	05/13/09
MAFB-358D	05/07/09	05/13/09	05/13/09
MAFB-359	05/13/09	05/15/09	05/15/09
MAFB-361	05/11/09	05/13/09	05/13/09
MAFB-362	05/18/09	05/19/09	05/19/09
MAFB-363	05/14/09	05/16/09	05/16/09
MAFB-364B	04/29/09	05/02/09	05/02/09
MAFB-364D	04/29/09	05/02/09	05/02/09
MAFB-365B	04/29/09	05/02/09	05/02/09
MAFB-365D	04/29/09	05/02/09	05/02/09
MAFB-366B	05/04/09	05/06/09	05/06/09
MAFB-366D	05/04/09	05/06/09	05/06/09
MAFB-366D (FD)	05/04/09	05/08/09	05/08/09
MAFB-367	05/01/09	05/07/09	05/07/09
MAFB-368B	04/21/09	04/29/09	04/29/09
MAFB-368D	04/21/09	04/30/09	04/30/09
MAFB-368D (FD)	04/21/09	04/30/09	04/30/09
MAFB-368D (MS)	04/21/09	04/30/09	04/30/09
MAFB-368D (MSD)	04/21/09	04/30/09	04/30/09
MAFB-369	04/29/09	05/02/09	05/02/09
MAFB-370	05/27/09	05/30/09	05/30/09
MAFB-371C	05/27/09	05/30/09	05/30/09
MAFB-371D	05/27/09	05/28/09	05/28/09
MAFB-372B	05/27/09	05/28/09	05/28/09
MAFB-372D	05/27/09	05/28/09	05/28/09
MAFB-373C	05/27/09	05/30/09	05/30/09
MAFB-373C (FD)	05/27/09	05/30/09	05/30/09
MAFB-373D	05/27/09	05/30/09	05/30/09
MAFB-373D (MS)	05/27/09	05/30/09	05/30/09
MAFB-373D (MSD)	05/27/09	05/30/09	05/30/09
MAFB-374	05/28/09	06/02/09	06/02/09
MAFB-375	05/06/09	05/09/09	05/09/09
MAFB-376	05/06/09	05/09/09	05/09/09
MAFB-376 (FD)	05/06/09	05/07/09	05/07/09
MAFB-377	04/30/09	05/06/09	05/06/09
MAFB-378B	05/06/09	05/07/09	05/07/09
MAFB-378B (FD)	05/06/09	05/07/09	05/07/09
MAFB-378D	05/06/09	05/07/09	05/07/09
MAFB-378D (MS)	05/06/09	05/07/09	05/07/09
MAFB-378D (MSD)	05/06/09	05/07/09	05/07/09
MAFB-379B	05/06/09	05/07/09	05/07/09
MAFB-379D	05/06/09	05/07/09	05/07/09
MAFB-380B	04/20/09	04/29/09	04/29/09
MAFB-380B (FD)	04/20/09	04/29/09	04/29/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-380D	04/20/09	04/29/09	04/29/09
MAFB-381B	04/21/09	04/30/09	04/30/09
MAFB-381D	04/21/09	04/30/09	04/30/09
MAFB-382B	04/14/09	04/26/09	04/26/09
MAFB-382B (FD)	04/14/09	04/26/09	04/26/09
MAFB-382D	04/14/09	04/26/09	04/26/09
MAFB-383B	04/30/09	05/06/09	05/06/09
MAFB-384B	05/08/09	05/12/09	05/12/09
MAFB-384D	05/08/09	05/12/09	05/12/09
MAFB-385D	04/20/09	04/29/09	04/29/09
MAFB-386D	04/30/09	05/05/09	05/05/09
MAFB-387B	04/13/09	04/16/09	04/16/09
MAFB-387Dd	04/13/09	04/16/09	04/16/09
MAFB-387Ds	04/13/09	04/14/09	04/14/09
MAFB-388B	04/13/09	04/16/09	04/16/09
MAFB-388Dd	04/13/09	04/14/09	04/14/09
MAFB-388Ds	04/13/09	04/16/09	04/16/09
MAFB-391	05/05/09	05/07/09	05/07/09
MAFB-392	06/15/09	06/17/09	06/17/09
MAFB-393	05/05/09	05/07/09	05/07/09
MAFB-394	05/05/09	05/07/09	05/07/09
MAFB-395	05/05/09	05/07/09	05/07/09
MAFB-395 (FD)	05/05/09	05/07/09	05/07/09
MAFB-396	05/05/09	05/07/09	05/07/09
MAFB-397	05/06/09	05/07/09	05/07/09
MAFB-398	05/14/09	05/16/09	05/16/09
MAFB-398C	05/14/09	05/16/09	05/16/09
MAFB-399	05/19/09	05/21/09	05/21/09
MAFB-400	04/23/09	04/30/09	04/30/09
MAFB-400 (FD)	04/23/09	04/30/09	04/30/09
MAFB-401	04/22/09	04/30/09	04/30/09
MAFB-401 (FD)	04/22/09	04/30/09	04/30/09
MAFB-402	04/22/09	04/30/09	04/30/09
MAFB-403	04/22/09	04/30/09	04/30/09
MAFB-404	05/22/09	05/25/09	05/25/09
MAFB-405	05/22/09	05/26/09	05/26/09
MAFB-405 (FD)	05/22/09	05/26/09	05/26/09
MAFB-407	05/08/09	05/12/09	05/12/09
MAFB-408	04/22/09	04/30/09	04/30/09
MAFB-410	05/20/09	05/22/09	05/22/09
MAFB-411	04/21/09	04/30/09	04/30/09
MAFB-411 (FD)	04/21/09	04/30/09	04/30/09
MAFB-412	04/20/09	04/29/09	04/29/09
MAFB-413	04/14/09	04/27/09	04/27/09
MAFB-414	05/26/09	05/28/09	05/28/09
MAFB-414 (FD)	05/26/09	05/28/09	05/28/09
MAFB-415	05/22/09	05/26/09	05/26/09
MAFB-417	05/21/09	05/22/09	05/22/09
MAFB-418	05/22/09	05/26/09	05/26/09
MAFB-419	05/21/09	05/22/09	05/22/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-420	05/28/09	06/02/09	06/02/09
MAFB-420 (RE)	05/28/09	06/03/09	06/03/09
MAFB-422	05/01/09	05/07/09	05/07/09
MAFB-423	04/29/09	05/04/09	05/04/09
MAFB-423B	04/29/09	05/02/09	05/02/09
MAFB-423B (FD)	04/29/09	05/04/09	05/04/09
MAFB-424	04/14/09	04/27/09	04/27/09
MAFB-425	05/04/09	05/07/09	05/07/09
MAFB-426	04/13/09	04/16/09	04/16/09
MAFB-427	04/13/09	04/16/09	04/16/09
MAFB-428	05/21/09	05/22/09	05/22/09
MAFB-429Bd	04/30/09	05/05/09	05/05/09
MAFB-429Bs	04/30/09	05/05/09	05/05/09
MAFB-429Bs (FD)	04/30/09	05/06/09	05/06/09
MAFB-429Bu	04/30/09	05/06/09	05/06/09
MAFB-430	05/18/09	05/19/09	05/19/09
MAFB-431Bd	05/01/09	05/06/09	05/06/09
MAFB-431Dd	05/01/09	05/06/09	05/06/09
MAFB-431Ds	05/01/09	05/06/09	05/06/09
MAFB-432	04/24/09	05/02/09	05/02/09
MAFB-433	04/27/09	05/06/09	05/06/09
MAFB-433 (FD)	04/27/09	05/06/09	05/06/09
MAFB-434Bd	05/01/09	05/06/09	05/06/09
MAFB-434Bs	05/01/09	05/06/09	05/06/09
MAFB-434Bs (MS)	05/01/09	05/06/09	05/06/09
MAFB-434Bs (MSD)	05/01/09	05/06/09	05/06/09
MAFB-434Bu	05/01/09	05/06/09	05/06/09
MAFB-434Bu (FD)	05/01/09	05/06/09	05/06/09
MAFB-435	05/06/09	05/07/09	05/07/09
MAFB-437Dd	04/20/09	04/30/09	04/30/09
MAFB-437Ds	04/20/09	04/30/09	04/30/09
MAFB-438	05/04/09	05/06/09	05/06/09
MAFB-439	05/26/09	05/28/09	05/28/09
MAFB-440	05/19/09	05/21/09	05/21/09
MAFB-440P	05/19/09	05/21/09	05/21/09
MAFB-441	04/29/09	05/05/09	05/05/09
MAFB-442	05/18/09	05/19/09	05/19/09
MAFB-443	04/13/09	04/15/09	04/15/09
MAFB-444	05/27/09	05/29/09	05/29/09
MAFB-445	05/27/09	05/29/09	05/29/09
MAFB-446	05/27/09	05/29/09	05/29/09
MAFB-446 (FD)	05/27/09	05/29/09	05/29/09
MAFB-447	05/27/09	05/29/09	05/29/09
MAFB-448	05/27/09	05/29/09	05/29/09
MAFB-449Bd	04/24/09	05/01/09	05/01/09
MAFB-449Bs	04/24/09	05/01/09	05/01/09
MAFB-450	04/30/09	05/06/09	05/06/09
MAFB-451	04/29/09	05/05/09	05/05/09
MAFB-452B	04/29/09	05/05/09	05/05/09
MAFB-452Bu	04/29/09	05/05/09	05/05/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-453	04/23/09	04/30/09	04/30/09
MAFB-453C	04/23/09	04/30/09	04/30/09
MAFB-454	04/24/09	05/02/09	05/02/09
MAFB-454C	04/24/09	05/02/09	05/02/09
MAFB-455	04/27/09	05/06/09	05/06/09
MAFB-456	05/26/09	05/29/09	05/29/09
MAFB-456C	04/27/09	05/06/09	05/06/09
MAFB-457Bd	04/24/09	05/02/09	05/02/09
MAFB-457Bs	04/24/09	05/02/09	05/02/09
MAFB-457Bs (FD)	04/24/09	05/02/09	05/02/09
MAFB-458Bd	04/24/09	05/02/09	05/02/09
MAFB-458Bs	04/24/09	05/02/09	05/02/09
MAFB-459D	04/13/09	04/15/09	04/15/09
MAFB-459Dd	04/13/09	04/15/09	04/15/09
MBS 39ABuB	04/17/09	04/28/09	04/28/09
MBS EW1ABu	04/17/09	04/28/09	04/28/09
MBS EW-1B	04/16/09	04/27/09	04/27/09
MBS EW-1Bu	04/16/09	04/27/09	04/27/09
MBS EW-1Bu (FD)	04/16/09	04/27/09	04/27/09
MBS EW-1Bu (MS)	04/16/09	04/27/09	04/27/09
MBS EW-1Bu (MSD)	04/16/09	04/27/09	04/27/09
MBS EW-1D	04/17/09	04/29/09	04/29/09
MBS EW2ABu	04/15/09	04/28/09	04/28/09
MBS EW-2AR	04/15/09	04/28/09	04/28/09
MBS EW-2B	04/15/09	04/27/09	04/27/09
MBS EW-2D	04/16/09	04/27/09	04/27/09
MBS EW-3B	04/17/09	04/28/09	04/28/09
MBS EW-3B (FD)	04/17/09	04/28/09	04/28/09
MBS EW-3B (MS)	04/17/09	04/29/09	04/29/09
MBS EW-3B (MSD)	04/17/09	04/29/09	04/29/09
MBS EW-3Bu	04/15/09	04/28/09	04/28/09
MBS EW-3D	04/16/09	04/28/09	04/28/09
MBS EW-4A	04/17/09	04/28/09	04/28/09
MBS EW4ABu	04/15/09	04/27/09	04/27/09
MBS EW-4B	04/17/09	04/28/09	04/28/09
MBS EW-4Bu	04/16/09	04/29/09	04/29/09
MBS EW-4D	04/17/09	04/29/09	04/29/09
MBS EW5ABu	04/15/09	04/27/09	04/27/09
MBS EW-5B	04/15/09	04/27/09	04/27/09
MBS EW-5D	04/15/09	04/28/09	04/28/09
MBS EW6ABu	04/17/09	04/28/09	04/28/09
MBS EW-6B	04/15/09	04/27/09	04/27/09
MBS EW-6D	04/15/09	04/28/09	04/28/09
MBS EW7ABu	04/17/09	04/29/09	04/29/09
MBS EW-7B	04/16/09	04/28/09	04/28/09
MBS EW-8B	04/15/09	04/27/09	04/27/09
MBS EW-9B	04/16/09	04/29/09	04/29/09
MBS EW-10B	04/15/09	04/28/09	04/28/09
MBS EW-10B (FD)	04/15/09	04/28/09	04/28/09
MBS EW-10B (MS)	04/15/09	04/28/09	04/28/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MBS EW-10B (MSD)	04/15/09	04/28/09	04/28/09
MBS EW-11B	04/15/09	04/28/09	04/28/09
MBS EW-12AB	04/17/09	04/29/09	04/29/09
MBS EW-12B	04/15/09	04/28/09	04/28/09
MBS EW-13BuB	04/15/09	04/28/09	04/28/09
MBS PTE AF	04/16/09	04/27/09	04/27/09
MBS PTE AF	04/30/09	05/06/09	05/06/09
MBS PTE AF	06/25/09	06/29/09	06/29/09
MBS PTE AF	06/11/09	06/12/09	06/12/09
MBS PTE AF	04/02/09	04/09/09	04/09/09
MBS PTE AF	05/28/09	05/29/09	05/29/09
MBS PTE AF	05/14/09	05/18/09	05/18/09
MBS PTI	04/16/09	04/29/09	04/29/09
MBS PTI (FD)	04/16/09	04/29/09	04/29/09
MBS PTI (MS)	04/16/09	04/29/09	04/29/09
MBS PTI (MSD)	04/16/09	04/29/09	04/29/09
MBS PZ-11	05/06/09	05/09/09	05/09/09
MBS PZ-12	05/19/09	05/21/09	05/21/09
MBS PZ-13	05/19/09	05/21/09	05/21/09
MBS PZ-14	05/19/09	05/22/09	05/22/09
MBS PZ-15	05/19/09	05/22/09	05/22/09
MBS PZ-37	04/29/09	05/04/09	05/04/09
MBS PZ-38	05/01/09	05/07/09	05/07/09
MBS PZ-39	05/28/09	06/03/09	06/03/09
MBS PZ-42D	05/06/09	05/09/09	05/09/09
MBS PZ-42D (FD)	05/06/09	05/07/09	05/07/09
MBS PZ-42S	05/06/09	05/07/09	05/07/09
MBS PZ-44	05/19/09	05/22/09	05/22/09
MBS PZ-44 (MS)	05/19/09	05/22/09	05/22/09
MBS PZ-44 (MSD)	05/19/09	05/22/09	05/22/09
MBS PZ-49D	05/19/09	05/22/09	05/22/09
MBS PZ-50D	05/08/09	05/12/09	05/12/09
MBS PZ-50S	05/08/09	05/12/09	05/12/09
MBS PZ-51	05/18/09	05/19/09	05/19/09
MBS PZ-52	05/20/09	05/22/09	05/22/09
MBS PZ-53	05/28/09	06/03/09	06/03/09
MBS PZ-54	05/19/09	05/22/09	05/22/09
MBS PZ-55B	05/13/09	05/15/09	05/15/09
MBS PZ-55Bu	05/13/09	05/15/09	05/15/09
MBS PZ-58	05/04/09	05/08/09	05/08/09
OFB-06	06/01/09	06/03/09	06/03/09
OFB-07	06/01/09	06/03/09	06/03/09
OFB-09	06/01/09	06/03/09	06/03/09
OFB-12	06/01/09	06/03/09	06/03/09
OFB-17	06/01/09	06/03/09	06/03/09
OFB-17 (FD)	06/01/09	06/05/09	06/05/09
OFB-17 (MS)	06/01/09	06/03/09	06/03/09
OFB-17 (MSD)	06/01/09	06/03/09	06/03/09
OFB-24	06/01/09	06/03/09	06/03/09
OFB-39	06/01/09	06/03/09	06/03/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
OFB-40	06/01/09	06/03/09	06/03/09
OFB-43	06/01/09	06/03/09	06/03/09
OFB-46	06/01/09	06/03/09	06/03/09
OFB-47	06/01/09	06/03/09	06/03/09
OFB-48	06/01/09	06/05/09	06/05/09
OFB-53	06/01/09	06/04/09	06/04/09
OFB-53 (FD)	06/01/09	06/03/09	06/03/09
OFB-57	06/01/09	06/04/09	06/04/09
OFB-67	06/01/09	06/04/09	06/04/09
OFB-68	06/01/09	06/04/09	06/04/09
OFB-69	06/01/09	06/03/09	06/03/09
OFB-69	06/01/09	06/04/09	06/04/09
OFB-69 (MS)	06/01/09	06/08/09	06/08/09
OFB-69 (MSD)	06/01/09	06/08/09	06/08/09
OFB-70	06/01/09	06/04/09	06/04/09
OFB-71	06/01/09	06/04/09	06/04/09
OFB-72	06/29/09	07/01/09	07/01/09
OFB-72	06/01/09	06/04/09	06/04/09
OFB-73	06/01/09	06/05/09	06/05/09
OFB-74	06/01/09	06/05/09	06/05/09
OFB-75	06/01/09	06/05/09	06/05/09
OFB-76	06/01/09	06/05/09	06/05/09
OFB-77	06/01/09	06/05/09	06/05/09
OFB-78	06/02/09	06/04/09	06/04/09
OFB-79	06/02/09	06/04/09	06/04/09
OFB-80	06/02/09	06/05/09	06/05/09
OFB-81	06/02/09	06/04/09	06/04/09
OFB-81	06/02/09	06/05/09	06/05/09
OFB-82	06/22/09	06/24/09	06/24/09
OFB-83	06/22/09	06/24/09	06/24/09
TB-04/02/09	04/02/09	04/09/09	04/09/09
TB-04/13/09	04/13/09	04/27/09	04/27/09
TB-04/14/09	04/14/09	04/27/09	04/27/09
TB-04/15/09	04/15/09	04/27/09	04/27/09
TB-04/16/09	04/16/09	04/28/09	04/28/09
TB-04/17/09	04/17/09	04/29/09	04/29/09
TB-04/20/09	04/20/09	04/30/09	04/30/09
TB-04/21/09	04/21/09	04/29/09	04/29/09
TB-04/22/09	04/22/09	04/30/09	04/30/09
TB-04/23/09	04/23/09	04/30/09	04/30/09
TB-04/24/09	04/24/09	05/01/09	05/01/09
TB-04/27/09	04/27/09	05/06/09	05/06/09
TB-04/29/09	04/29/09	05/05/09	05/05/09
TB-04/30/09	04/30/09	05/05/09	05/05/09
TB-05/01/09	05/01/09	05/06/09	05/06/09
TB-05/04/09	05/04/09	05/06/09	05/06/09
TB-05/05/09	05/05/09	05/06/09	05/06/09
TB-05/06/09	05/06/09	05/07/09	05/07/09
TB-05/07/09	05/07/09	05/13/09	05/13/09
TB-05/08/09	05/08/09	05/11/09	05/11/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 12)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
TB-05/11/09	05/11/09	05/15/09	05/15/09
TB-05/12/09	05/12/09	05/15/09	05/15/09
TB-05/13/09	05/13/09	05/15/09	05/15/09
TB-05/14/09	05/14/09	05/18/09	05/18/09
TB-05/18/09	05/18/09	05/19/09	05/19/09
TB-05/19/09	05/19/09	05/21/09	05/21/09
TB-05/20/09	05/20/09	05/21/09	05/21/09
TB-05/21/09	05/21/09	05/22/09	05/22/09
TB-05/22/09	05/22/09	05/25/09	05/25/09
TB-05/26/09	05/26/09	05/28/09	05/28/09
TB-05/27/09	05/27/09	05/29/09	05/29/09
TB-05/28/09	05/28/09	05/29/09	05/29/09
TB-05/29/09	05/29/09	06/03/09	06/03/09
TB-06/01/09	06/01/09	06/05/09	06/05/09
TB-06/02/09	06/02/09	06/05/09	06/05/09
TB-06/11/09	06/11/09	06/12/09	06/12/09
TB-06/15/09	06/15/09	06/16/09	06/16/09
TB-06/25/09	06/25/09	06/29/09	06/29/09
TB-06/29/09	06/29/09	07/01/09	07/01/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RE - Sample Reanalysis
TB - Trip Blank

TABLE 4-1.2

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 524.2 Date Prepared	USEPA 524.2 Date Analyzed
MAFB-271	04/20/09	04/28/09	04/28/09
MAFB-319	04/20/09	04/28/09	04/28/09
MAFB-319 (FD)	04/20/09	04/28/09	04/28/09
MAFB-321	04/20/09	04/28/09	04/28/09
MAFB-322	04/20/09	04/28/09	04/28/09
MAFB-323	04/14/09	04/28/09	04/28/09
MAFB-324	04/20/09	04/28/09	04/28/09
MAFB-324 (FD)	04/20/09	04/28/09	04/28/09
MAFB-324 (MS)	04/20/09	04/28/09	04/28/09
MAFB-324 (MSD)	04/20/09	04/28/09	04/28/09
MAFB-326	04/20/09	04/28/09	04/28/09
MAFB-327	04/14/09	04/28/09	04/28/09
MAFB-328	04/20/09	04/28/09	04/28/09
MAFB-330	04/14/09	04/28/09	04/28/09
MAFB-336	04/14/09	04/28/09	04/28/09
MAFB-337	04/20/09	04/28/09	04/28/09
MAFB-338	04/20/09	04/28/09	04/28/09
MAFB-349	04/14/09	04/28/09	04/28/09
MB-4	06/02/09	06/09/09	06/09/09
OFB-04	04/28/09	05/05/09	05/05/09
OFB-04	06/30/09	07/06/09	07/06/09
OFB-04	05/26/09	05/28/09	05/28/09
OFB-04M	04/28/09	05/05/09	05/05/09
OFB-04M	06/30/09	07/06/09	07/06/09
OFB-04M	05/26/09	05/29/09	05/29/09
OFB-27	04/28/09	05/05/09	05/05/09
OFB-27 (FD)	04/28/09	05/05/09	05/05/09
OFB-27 (MS)	04/28/09	05/05/09	05/05/09
OFB-27 (MSD)	04/28/09	05/05/09	05/05/09
OFB-31	04/28/09	05/05/09	05/05/09
OFB-32	04/28/09	05/05/09	05/05/09
OFB-49	04/28/09	05/05/09	05/05/09
OFB-51	04/28/09	05/05/09	05/05/09
OFB-51/52I	04/28/09	05/05/09	05/05/09
OFB-51/52I	05/26/09	05/28/09	05/28/09
OFB-51/52I	06/30/09	07/06/09	07/06/09
OFB-51/52M	04/28/09	05/05/09	05/05/09
OFB-51/52M	05/26/09	05/28/09	05/28/09
OFB-51/52M	06/30/09	07/06/09	07/06/09
OFB-52	04/28/09	05/05/09	05/05/09
OFB-52 (FD)	04/28/09	05/05/09	05/05/09
OFB-52 (MS)	04/28/09	05/05/09	05/05/09
OFB-52 (MSD)	04/28/09	05/05/09	05/05/09
OFB-54	04/28/09	05/05/09	05/05/09
OFB-56	04/28/09	05/05/09	05/05/09
TB-04/14/09	04/14/09	04/28/09	04/28/09
TB-04/28/09	04/28/09	05/05/09	05/05/09
TB-06/02/09	06/02/09	06/09/09	06/09/09
TB-06/30/09	06/30/09	07/06/09	07/06/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.3

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Date Sampled	TPH as Diesel		TPH as Gasoline	
		Date Prepared	Date Analyzed	Date Prepared	Date Analyzed
7-BV-13	05/13/09	05/15/09	05/19/09	05/21/09	05/21/09
7-EW-1	04/16/09	04/23/09	05/12/09	04/21/09	04/21/09
7-EW-2	04/16/09	04/23/09	05/12/09	04/22/09	04/22/09
7-PTE	04/16/09	04/23/09	05/12/09	04/22/09	04/22/09
7-PTE	06/25/09	--	--	07/08/09	07/08/09
7-PTE	04/02/09	--	--	04/05/09	04/05/09
7-PTE	04/30/09	--	--	05/12/09	05/12/09
7-PTE	06/11/09	--	--	06/25/09	06/25/09
7-PTE	05/28/09	--	--	06/09/09	06/09/09
7-PTE	05/14/09	--	--	05/22/09	05/22/09
7-PTI	04/16/09	04/23/09	05/12/09	04/22/09	04/22/09
7-PTI (FD)	04/16/09	04/23/09	05/12/09	04/21/09	04/21/09
7-PTI (MS)	04/16/09	04/23/09	05/12/09	04/22/09	04/22/09
7-PTI (MSD)	04/16/09	04/23/09	05/12/09	04/22/09	04/22/09
7-PZ-37	04/20/09	04/23/09	05/05/09	04/30/09	04/30/09
7-PZ-37P	04/15/09	04/16/09	04/17/09	04/21/09	04/21/09
7-PZ-37P (FD)	04/15/09	04/16/09	04/17/09	04/21/09	04/21/09
7-PZ-37P (MS)	04/15/09	04/20/09	04/27/09	04/21/09	04/21/09
7-PZ-37P (MSD)	04/15/09	04/20/09	04/27/09	04/21/09	04/21/09
7-PZ-38P	05/12/09	05/15/09	05/19/09	05/21/09	05/21/09
ACW PTE	04/16/09	04/21/09	04/25/09	--	--
ACW PTE (FD)	04/16/09	04/21/09	05/05/09	--	--
ACW PTE (MS)	04/16/09	04/21/09	04/25/09	--	--
ACW PTE (MSD)	04/16/09	04/21/09	04/25/09	--	--
MAFB-044	04/13/09	04/16/09	04/17/09	--	--
MAFB-149	04/13/09	04/16/09	04/17/09	04/19/09	04/19/09
MAFB-203	05/21/09	--	--	06/02/09	06/02/09
MAFB-284	04/14/09	04/16/09	04/17/09	04/19/09	04/19/09
MAFB-314	05/21/09	--	--	06/02/09	06/02/09
MAFB-359	05/13/09	05/15/09	05/19/09	--	--
MAFB-372B	05/27/09	05/28/09	06/07/09	--	--
MAFB-413	04/14/09	04/16/09	04/17/09	04/19/09	04/19/09
MAFB-414	05/26/09	05/28/09	06/07/09	06/02/09	06/02/09
MAFB-417	05/21/09	--	--	06/02/09	06/02/09
MAFB-419	05/21/09	05/26/09	05/27/09	06/02/09	06/02/09
MAFB-428	05/21/09	--	--	06/02/09	06/02/09
MAFB-439	05/26/09	05/28/09	06/17/09	06/02/09	06/02/09
MBS EW-1D	04/17/09	--	--	04/30/09	04/30/09
MBS EW-2AR	04/15/09	--	--	04/21/09	04/21/09
MBS PTE AF	04/16/09	04/23/09	05/05/09	04/20/09	04/20/09
MBS PTI	04/16/09	04/23/09	05/05/09	04/20/09	04/20/09
MBS PTI (FD)	04/16/09	04/23/09	05/05/09	04/20/09	04/20/09
MBS PTI (MS)	04/16/09	04/23/09	05/05/09	04/21/09	04/21/09
MBS PTI (MSD)	04/16/09	04/23/09	05/05/09	04/21/09	04/21/09

TABLE 4-1.3

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Date Sampled	TPH as Diesel		TPH as Gasoline	
		Date Prepared	Date Analyzed	Date Prepared	Date Analyzed
TB-04/02/09	04/02/09	--	--	04/05/09	04/05/09
TB-04/13/09	04/13/09	--	--	04/18/09	04/18/09
TB-04/14/09	04/14/09	--	--	04/18/09	04/18/09
TB-04/15/09	04/15/09	--	--	04/21/09	04/21/09
TB-04/16/09	04/16/09	--	--	04/20/09	04/20/09
TB-04/17/09	04/17/09	--	--	04/30/09	04/30/09
TB-04/20/09	04/20/09	--	--	04/30/09	04/30/09
TB-04/30/09	04/30/09	--	--	05/12/09	05/12/09
TB-05/12/09	05/12/09	--	--	05/20/09	05/20/09
TB-05/13/09	05/13/09	--	--	05/21/09	05/21/09
TB-05/14/09	05/14/09	--	--	05/22/09	05/22/09
TB-05/21/09	05/21/09	--	--	06/01/09	06/01/09
TB-05/26/09	05/26/09	--	--	06/01/09	06/01/09
TB-05/28/09	05/28/09	--	--	06/08/09	06/08/09
TB-06/11/09	06/11/09	--	--	06/25/09	06/25/09
TB-06/25/09	06/25/09	--	--	07/08/09	07/08/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.4

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8081 - PESTICIDES
USEPA METHOD 8082 - POLYCHLORINATED BIPHENYLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 8081 Date Prepared	USEPA 8081 Date Analyzed	USEPA 8082 Date Prepared	USEPA 8082 Date Analyzed
7-PZ-37	04/20/09	04/23/09	04/28/09	04/23/09	04/28/09
7-PZ-37P	04/15/09	04/21/09	04/23/09	04/21/09	04/23/09
7-PZ-37P (FD)	04/15/09	04/21/09	04/23/09	04/21/09	04/23/09
7-PZ-37P (MS)	04/15/09	04/21/09	04/23/09	04/21/09	04/23/09
7-PZ-37P (MSD)	04/15/09	04/21/09	04/23/09	04/21/09	04/23/09
MAFB-284	04/14/09	04/21/09	04/23/09	04/21/09	04/23/09
MAFB-413	04/14/09	04/21/09	04/23/09	04/21/09	04/23/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.5

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 8270 Date Prepared	USEPA 8270 Date Analyzed
7-PZ-37	04/20/09	04/27/09	05/01/09
7-PZ-37P	04/15/09	04/21/09	04/23/09
7-PZ-37P (FD)	04/15/09	04/21/09	04/23/09
7-PZ-37P (MS)	04/15/09	04/21/09	04/23/09
7-PZ-37P (MSD)	04/15/09	04/21/09	04/23/09
MAFB-284	04/14/09	04/17/09	04/19/09
MAFB-413	04/14/09	04/17/09	04/19/09
MAFB-440	05/19/09	05/26/09	05/28/09
MAFB-440P	05/19/09	05/26/09	05/28/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.6

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 6010 - ICP METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Date Sampled	USEPA 6010 Date Prepared	USEPA 6010 Date Analyzed
7-BV-01	05/12/09	05/13/09	05/15/09
7-BV-02	05/13/09	05/15/09	05/18/09
7-BV-02 (FD)	05/13/09	05/15/09	05/18/09
7-BV-02 (MS)	05/13/09	05/15/09	05/18/09
7-BV-02 (MSD)	05/13/09	05/15/09	05/18/09
7-BV-04	05/12/09	05/13/09	05/15/09
7-BV-06	05/12/09	05/13/09	05/15/09
7-BV-07	05/13/09	05/15/09	05/18/09
7-BV-08	05/12/09	05/13/09	05/15/09
7-BV-13	05/13/09	05/15/09	05/18/09
7-EW-1	04/16/09	04/20/09	04/21/09
7-EW-2	04/16/09	04/20/09	04/21/09
7-PTE	04/16/09	04/20/09	04/21/09
7-PTI	04/16/09	04/20/09	04/21/09
7-PTI (FD)	04/16/09	04/20/09	04/21/09
7-PTI (MS)	04/16/09	04/20/09	04/21/09
7-PTI (MSD)	04/16/09	04/20/09	04/21/09
7-PZ-23	04/13/09	04/16/09	04/17/09
7-PZ-24	04/13/09	04/16/09	04/17/09
7-PZ-25	04/13/09	04/16/09	04/17/09
7-PZ-26	04/13/09	04/16/09	04/17/09
7-PZ-37	04/20/09	04/22/09	04/23/09
7-PZ-37P	04/15/09	04/17/09	04/18/09
7-PZ-37P (FD)	04/15/09	04/17/09	04/18/09
7-PZ-37P (MS)	04/15/09	04/17/09	04/18/09
7-PZ-37P (MSD)	04/15/09	04/17/09	04/18/09
7-PZ-38P	05/12/09	05/13/09	05/14/09
ACW PTE	04/16/09	04/20/09	04/21/09
ACW PTI	04/16/09	04/20/09	04/21/09
ACW PTI (FD)	04/16/09	04/20/09	04/21/09
ACW PTI (MS)	04/16/09	04/20/09	04/21/09
ACW PTI (MSD)	04/16/09	04/20/09	04/21/09
MAFB-005	05/14/09	05/18/09	05/19/09
MAFB-013	04/29/09	05/05/09	05/08/09
MAFB-044	04/13/09	04/16/09	04/17/09
MAFB-111	04/23/09	04/27/09	04/28/09
MAFB-112	05/19/09	05/21/09	05/22/09
MAFB-129	04/21/09	04/23/09	04/28/09
MAFB-131	05/18/09	05/21/09	05/22/09
MAFB-132	05/14/09	05/18/09	05/19/09
MAFB-133	05/18/09	05/21/09	05/22/09
MAFB-133 (FD)	05/18/09	05/21/09	05/22/09
MAFB-133 (MS)	05/18/09	05/21/09	05/22/09
MAFB-133 (MSD)	05/18/09	05/21/09	05/22/09

TABLE 4-1.6

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 6010 - ICP METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Date Sampled	USEPA 6010 Date Prepared	USEPA 6010 Date Analyzed
MAFB-136	05/18/09	05/21/09	05/22/09
MAFB-140	05/18/09	05/21/09	05/22/09
MAFB-149	04/13/09	04/16/09	04/17/09
MAFB-202	05/29/09	06/02/09	06/03/09
MAFB-284	04/14/09	04/17/09	04/18/09
MAFB-288	04/23/09	04/27/09	04/28/09
MAFB-398	05/14/09	05/18/09	05/19/09
MAFB-398C	05/14/09	05/18/09	05/19/09
MAFB-399	05/19/09	05/21/09	05/22/09
MAFB-400	04/23/09	04/27/09	04/28/09
MAFB-400 (FD)	04/23/09	04/27/09	04/28/09
MAFB-413	04/14/09	04/17/09	04/18/09
MAFB-424	04/14/09	04/17/09	04/18/09
MAFB-439	05/26/09	05/29/09	06/01/09
MAFB-440	05/19/09	05/21/09	05/22/09
MAFB-440P	05/19/09	05/21/09	05/22/09
MBS PTE AF	04/16/09	04/20/09	04/21/09
MBS PTI	04/16/09	04/20/09	04/21/09
MBS PTI (FD)	04/16/09	04/20/09	04/21/09
MBS PTI (MS)	04/16/09	04/20/09	04/21/09
MBS PTI (MSD)	04/16/09	04/20/09	04/21/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.7

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 6020 - THALLIUM
USEPA METHOD 7470 - MERCURY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 6020 Date Prepared	USEPA 6020 Date Analyzed	USEPA 7470 Date Prepared	USEPA 7470 Date Analyzed
7-BV-13	05/13/09	05/15/09	05/27/09	05/20/09	05/22/09
7-PZ-37	04/20/09	04/30/09	05/01/09	04/22/09	04/23/09
7-PZ-37P	04/15/09	04/21/09	04/22/09	04/17/09	04/21/09
7-PZ-37P (FD)	04/15/09	04/21/09	04/22/09	04/17/09	04/21/09
7-PZ-37P (MS)	04/15/09	04/21/09	04/22/09	04/17/09	04/21/09
7-PZ-37P (MSD)	04/15/09	04/21/09	04/22/09	04/17/09	04/21/09
7-PZ-38P	05/12/09	05/14/09	05/27/09	05/20/09	05/22/09
MAFB-005	05/14/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-044	04/13/09	04/21/09	04/22/09	04/16/09	04/17/09
MAFB-111	04/23/09	04/30/09	05/01/09	04/27/09	05/01/09
MAFB-112	05/19/09	05/22/09	05/27/09	05/21/09	05/23/09
MAFB-131	05/18/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-132	05/14/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-133	05/18/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-133 (FD)	05/18/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-133 (MS)	05/18/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-133 (MSD)	05/18/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-136	05/18/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-149	04/13/09	04/21/09	04/22/09	04/16/09	04/17/09
MAFB-284	04/14/09	04/21/09	04/22/09	04/17/09	04/21/09
MAFB-288	04/23/09	04/30/09	05/01/09	04/27/09	05/01/09
MAFB-398	05/14/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-398C	05/14/09	05/20/09	05/27/09	05/20/09	05/22/09
MAFB-399	05/19/09	05/22/09	05/27/09	05/21/09	05/23/09
MAFB-400	04/23/09	04/30/09	05/01/09	04/27/09	05/01/09
MAFB-400 (FD)	04/23/09	04/30/09	05/01/09	04/27/09	05/01/09
MAFB-413	04/14/09	04/21/09	04/22/09	04/17/09	04/21/09
MAFB-424	04/14/09	04/21/09	04/22/09	04/17/09	04/21/09
MAFB-440	05/19/09	05/22/09	05/27/09	05/21/09	05/23/09
MAFB-440P	05/19/09	05/22/09	05/27/09	05/21/09	05/23/09
MBS PTE AF	04/16/09	04/21/09	04/22/09	04/21/09	04/22/09
MBS PTI	04/16/09	04/21/09	04/22/09	04/21/09	04/22/09
MBS PTI (FD)	04/16/09	04/21/09	04/22/09	04/21/09	04/22/09
MBS PTI (MS)	04/16/09	04/21/09	04/22/09	04/21/09	04/22/09
MBS PTI (MSD)	04/16/09	04/21/09	04/22/09	04/21/09	04/22/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.8

SUMMARY OF EXTRACTION AND ANALYSIS DATES
STANDARD METHOD 2320 - ALKALINITY
USEPA METHOD 130.2 - HARDNESS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Date Sampled	SM 2320 Date Prepared	SM 2320 Date Analyzed	USEPA 130.2 Date Prepared	USEPA 130.2 Date Analyzed
7-BV-01	05/12/09	05/19/09	05/19/09	05/23/09	05/23/09
7-BV-02	05/13/09	05/19/09	05/19/09	05/23/09	05/23/09
7-BV-02 (FD)	05/13/09	05/19/09	05/19/09	05/23/09	05/23/09
7-BV-02 (MS)	05/13/09	05/19/09	05/19/09	05/23/09	05/23/09
7-BV-02 (MSD)	05/13/09	05/19/09	05/19/09	05/23/09	05/23/09
7-BV-04	05/12/09	05/19/09	05/19/09	05/23/09	05/23/09
7-BV-06	05/12/09	05/19/09	05/19/09	05/23/09	05/23/09
7-BV-07	05/13/09	05/19/09	05/19/09	05/23/09	05/23/09
7-BV-08	05/12/09	05/19/09	05/19/09	05/23/09	05/23/09
7-EW-1	04/16/09	04/27/09	04/27/09	04/24/09	04/24/09
7-EW-2	04/16/09	04/27/09	04/27/09	04/24/09	04/24/09
7-PTE	04/16/09	04/27/09	04/27/09	04/24/09	04/24/09
7-PTI	04/16/09	04/27/09	04/27/09	04/24/09	04/24/09
7-PTI (FD)	04/16/09	04/27/09	04/27/09	04/24/09	04/24/09
7-PTI (MS)	04/16/09	04/27/09	04/27/09	04/24/09	04/24/09
7-PTI (MSD)	04/16/09	04/27/09	04/27/09	04/24/09	04/24/09
7-PZ-23	04/13/09	04/25/09	04/25/09	04/24/09	04/24/09
7-PZ-24	04/13/09	04/25/09	04/25/09	04/24/09	04/24/09
7-PZ-25	04/13/09	04/25/09	04/25/09	04/24/09	04/24/09
7-PZ-26	04/13/09	04/25/09	04/25/09	04/24/09	04/24/09
ACW PTE	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09
ACW PTI	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09
ACW PTI (FD)	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09
ACW PTI (MS)	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09
ACW PTI (MSD)	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09
MAFB-005	05/14/09	05/27/09	05/27/09	--	--
MAFB-111	04/23/09	05/01/09	05/01/09	--	--
MAFB-112	05/19/09	05/28/09	05/28/09	--	--
MAFB-131	05/18/09	05/27/09	05/27/09	--	--
MAFB-132	05/14/09	05/27/09	05/27/09	--	--
MAFB-133	05/18/09	05/27/09	05/27/09	--	--
MAFB-133 (FD)	05/18/09	05/27/09	05/27/09	--	--
MAFB-133 (MS)	05/18/09	05/27/09	05/27/09	--	--
MAFB-133 (MSD)	05/18/09	05/27/09	05/27/09	--	--
MAFB-136	05/18/09	05/27/09	05/27/09	--	--
MAFB-288	04/23/09	05/01/09	05/01/09	--	--
MAFB-398	05/14/09	05/27/09	05/27/09	--	--
MAFB-398C	05/14/09	05/27/09	05/27/09	--	--
MAFB-399	05/19/09	05/28/09	05/28/09	--	--
MAFB-400	04/23/09	05/01/09	05/01/09	--	--
MAFB-400 (FD)	04/23/09	05/01/09	05/01/09	--	--
MAFB-424	04/14/09	04/25/09	04/25/09	--	--
MBS PTE AF	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09

TABLE 4-1.8

SUMMARY OF EXTRACTION AND ANALYSIS DATES
STANDARD METHOD 2320 - ALKALINITY
USEPA METHOD 130.2 - HARDNESS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Date Sampled	SM 2320 Date Prepared	SM 2320 Date Analyzed	USEPA 130.2 Date Prepared	USEPA 130.2 Date Analyzed
MBS PTI	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09
MBS PTI (FD)	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09
MBS PTI (MS)	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09
MBS PTI (MSD)	04/16/09	04/27/09	04/27/09	04/28/09	04/28/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.9

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 160.1 - TOTAL FILTERABLE RESIDUE
USEPA METHOD 160.2 - TOTAL SUSPENDED SOLIDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Date Sampled	USEPA 160.1 Date Prepared	USEPA 160.1 Date Analyzed	USEPA 160.2 Date Prepared	USEPA 160.2 Date Analyzed
7-BV-01	05/12/09	05/13/09	05/13/09	--	--
7-BV-02	05/13/09	05/18/09	05/18/09	--	--
7-BV-02 (FD)	05/13/09	05/18/09	05/18/09	--	--
7-BV-02 (MS)	05/13/09	05/18/09	05/18/09	--	--
7-BV-02 (MSD)	05/13/09	05/18/09	05/18/09	--	--
7-BV-04	05/12/09	05/13/09	05/13/09	--	--
7-BV-06	05/12/09	05/13/09	05/13/09	--	--
7-BV-07	05/13/09	05/18/09	05/18/09	--	--
7-BV-08	05/12/09	05/13/09	05/13/09	--	--
7-EW-1	04/16/09	04/23/09	04/23/09	--	--
7-EW-2	04/16/09	04/23/09	04/23/09	--	--
7-PTE	04/16/09	04/23/09	04/23/09	--	--
7-PTI	04/16/09	04/23/09	04/23/09	--	--
7-PTI (FD)	04/16/09	04/23/09	04/23/09	--	--
7-PTI (MS)	04/16/09	04/23/09	04/23/09	--	--
7-PTI (MSD)	04/16/09	04/23/09	04/23/09	--	--
7-PZ-23	04/13/09	04/15/09	04/15/09	--	--
7-PZ-24	04/13/09	04/15/09	04/15/09	--	--
7-PZ-25	04/13/09	04/15/09	04/15/09	--	--
7-PZ-26	04/13/09	04/15/09	04/15/09	--	--
ACW PTE	04/16/09	04/23/09	04/23/09	--	--
ACW PTI	04/16/09	04/23/09	04/23/09	--	--
ACW PTI (FD)	04/16/09	04/23/09	04/23/09	--	--
ACW PTI (MS)	04/16/09	04/23/09	04/23/09	--	--
ACW PTI (MSD)	04/16/09	04/23/09	04/23/09	--	--
MAFB-005	05/14/09	05/18/09	05/18/09	--	--
MAFB-111	04/23/09	04/29/09	04/29/09	--	--
MAFB-111 (MS)	04/23/09	04/29/09	04/29/09	--	--
MAFB-111 (MSD)	04/23/09	04/29/09	04/29/09	--	--
MAFB-112	05/19/09	05/26/09	05/26/09	--	--
MAFB-131	05/18/09	05/20/09	05/20/09	--	--
MAFB-132	05/14/09	05/18/09	05/18/09	--	--
MAFB-133	05/18/09	05/20/09	05/20/09	--	--
MAFB-133 (FD)	05/18/09	05/20/09	05/20/09	--	--
MAFB-133 (MS)	05/18/09	05/20/09	05/20/09	--	--
MAFB-133 (MSD)	05/18/09	05/20/09	05/20/09	--	--
MAFB-136	05/18/09	05/20/09	05/20/09	--	--
MAFB-288	04/23/09	04/29/09	04/29/09	--	--
MAFB-398	05/14/09	05/18/09	05/18/09	--	--
MAFB-398C	05/14/09	05/18/09	05/18/09	--	--
MAFB-399	05/19/09	05/26/09	05/26/09	--	--
MAFB-400	04/23/09	04/29/09	04/29/09	--	--
MAFB-400 (FD)	04/23/09	04/29/09	04/29/09	--	--

TABLE 4-1.9

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 160.1 - TOTAL FILTERABLE RESIDUE
USEPA METHOD 160.2 - TOTAL SUSPENDED SOLIDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Date Sampled	USEPA 160.1 Date Prepared	USEPA 160.1 Date Analyzed	USEPA 160.2 Date Prepared	USEPA 160.2 Date Analyzed
MAFB-424	04/14/09	04/17/09	04/17/09	--	--
MBS PTE AF	04/16/09	04/23/09	04/23/09	04/21/09	04/21/09
MBS PTI	04/16/09	04/23/09	04/23/09	04/21/09	04/21/09
MBS PTI (FD)	04/16/09	04/23/09	04/23/09	04/21/09	04/21/09
MBS PTI (MS)	04/16/09	04/23/09	04/23/09	--	--
MBS PTI (MSD)	04/16/09	04/23/09	04/23/09	--	--

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.10

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 300.0 - CHLORIDE, NITRATE, AND SULFATE
USEPA METHOD 314.0 - PERCHLROATE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Date Sampled	USEPA 300.0 Date Prepared		USEPA 300.0 Date Analyzed		USEPA 314.0 Date Prepared	USEPA 314.0 Date Analyzed
7-BV-01	05/12/09	05/13/09		05/13/09		--	--
7-BV-01 (RE)	05/12/09	05/13/09		05/13/09		--	--
7-BV-02	05/13/09	05/14/09		05/14/09		--	--
7-BV-02 (FD)	05/13/09	05/14/09		05/14/09		--	--
7-BV-02 (FD)(RE)	05/13/09	05/14/09		05/14/09		--	--
7-BV-02 (MS)	05/13/09	05/14/09		05/14/09		--	--
7-BV-02 (MSD)	05/13/09	05/14/09		05/14/09		--	--
7-BV-02 (RE)	05/13/09	05/14/09		05/14/09		--	--
7-BV-04	05/12/09	05/13/09		05/13/09		--	--
7-BV-04 (RE)	05/12/09	05/13/09		05/13/09		--	--
7-BV-06	05/12/09	05/13/09		05/13/09		--	--
7-BV-06 (RE)	05/12/09	05/13/09		05/13/09		--	--
7-BV-07	05/13/09	05/14/09		05/14/09		--	--
7-BV-07 (RE)	05/13/09	05/14/09		05/14/09		--	--
7-BV-08	05/12/09	05/13/09		05/13/09		--	--
7-BV-08 (RE)	05/12/09	05/13/09		05/13/09		--	--
7-EW-1	04/16/09	04/29/09		04/29/09		--	--
7-EW-2	04/16/09	04/29/09		04/29/09		--	--
7-PTE	04/16/09	04/29/09		04/29/09		--	--
7-PTI	04/16/09	04/29/09		04/29/09		--	--
7-PTI (FD)	04/16/09	04/29/09		04/29/09		--	--
7-PTI (MS)	04/16/09	04/29/09	*	04/29/09	*	--	--
7-PTI (MSD)	04/16/09	04/29/09	*	04/29/09	*	--	--
7-PZ-23	04/13/09	04/14/09		04/14/09		--	--
7-PZ-24	04/13/09	04/14/09		04/14/09		--	--
7-PZ-25	04/13/09	04/14/09		04/14/09		--	--
7-PZ-26	04/13/09	04/14/09		04/14/09		--	--
ACW PTE	04/16/09	04/17/09		04/17/09		04/29/09	04/29/09
ACW PTE (FD)	04/16/09	--		--		04/29/09	04/29/09
ACW PTE (MS)	04/16/09	--		--		04/29/09	04/29/09
ACW PTE (MSD)	04/16/09	--		--		04/29/09	04/29/09
ACW PTI	04/16/09	04/17/09		04/17/09		--	--
ACW PTI (FD)	04/16/09	04/17/09		04/17/09		--	--
ACW PTI (MS)	04/16/09	04/21/09	*	04/21/09	*	--	--
ACW PTI (MSD)	04/16/09	04/21/09	*	04/21/09	*	--	--
MAFB-005	05/14/09	05/15/09		05/15/09		--	--
MAFB-111	04/23/09	04/27/09		04/27/09		--	--
MAFB-112	05/19/09	05/20/09		05/20/09		--	--
MAFB-131	05/18/09	05/19/09		05/19/09		--	--
MAFB-132	05/14/09	05/15/09		05/15/09		--	--
MAFB-133	05/18/09	05/19/09		05/19/09		--	--
MAFB-133 (FD)	05/18/09	05/19/09		05/19/09		--	--

* Analytical holding time requirement not met.

TABLE 4-1.10

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 300.0 - CHLORIDE, NITRATE, AND SULFATE
USEPA METHOD 314.0 - PERCHLROATE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Date Sampled	USEPA 300.0 Date Prepared	USEPA 300.0 Date Analyzed	USEPA 314.0 Date Prepared	USEPA 314.0 Date Analyzed
MAFB-133 (MS)	05/18/09	05/19/09	05/19/09	--	--
MAFB-133 (MSD)	05/18/09	05/19/09	05/19/09	--	--
MAFB-136	05/18/09	05/19/09	05/19/09	--	--
MAFB-288	04/23/09	04/27/09	04/27/09	--	--
MAFB-398	05/14/09	05/15/09	05/15/09	--	--
MAFB-398C	05/14/09	05/15/09	05/15/09	--	--
MAFB-399	05/19/09	05/20/09	05/20/09	--	--
MAFB-400	04/23/09	04/27/09	04/27/09	--	--
MAFB-400 (FD)	04/23/09	04/27/09	04/27/09	--	--
MAFB-424	04/14/09	04/15/09	04/15/09	--	--
MBS PTE AF	04/16/09	04/17/09	04/17/09	04/29/09	04/29/09
MBS PTE AF (FD)	04/16/09	--	--	04/29/09	04/29/09
MBS PTE AF (MS)	04/16/09	--	--	04/29/09	04/29/09
MBS PTE AF (MSD)	04/16/09	--	--	04/29/09	04/29/09
MBS PTI	04/16/09	04/17/09	04/17/09	--	--
MBS PTI (FD)	04/16/09	04/17/09	04/17/09	--	--
MBS PTI (MS)	04/16/09	04/17/09	04/17/09	--	--
MBS PTI (MSD)	04/16/09	04/17/09	04/17/09	--	--

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RE - Sample Reanalysis

* Analytical holding time requirement not met.

TABLE 4-1.11

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 340.2 - FLUORIDE
USEPA METHOD 376.1 - TOTAL SULFIDE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 340.2 Date Prepared	USEPA 340.2 Date Analyzed	USEPA 376.1 Date Prepared		USEPA 376.1 Date Analyzed	
MAFB-005	05/14/09	05/26/09	05/26/09	05/15/09		05/15/09	
MAFB-111	04/23/09	05/01/09	05/01/09	04/24/09		04/24/09	
MAFB-112	05/19/09	05/26/09	05/26/09	05/20/09	*	05/20/09	*
MAFB-131	05/18/09	05/26/09	05/26/09	05/19/09		05/19/09	
MAFB-132	05/14/09	05/26/09	05/26/09	05/15/09		05/15/09	
MAFB-133	05/18/09	05/26/09	05/26/09	05/19/09		05/19/09	
MAFB-133 (FD)	05/18/09	05/26/09	05/26/09	05/19/09		05/19/09	
MAFB-133 (MS)	05/18/09	05/26/09	05/26/09	05/19/09		05/19/09	
MAFB-133 (MSD)	05/18/09	05/26/09	05/26/09	05/19/09		05/19/09	
MAFB-136	05/18/09	05/26/09	05/26/09	05/19/09		05/19/09	
MAFB-288	04/23/09	05/01/09	05/01/09	04/24/09		04/24/09	
MAFB-398	05/14/09	05/26/09	05/26/09	05/15/09		05/15/09	
MAFB-398C	05/14/09	05/26/09	05/26/09	05/15/09		05/15/09	
MAFB-399	05/19/09	05/26/09	05/26/09	05/20/09	*	05/20/09	*
MAFB-400	04/23/09	05/01/09	05/01/09	04/24/09		04/24/09	
MAFB-400 (FD)	04/23/09	05/01/09	05/01/09	04/24/09		04/24/09	
MAFB-424	04/14/09	04/20/09	04/20/09	04/15/09		04/15/09	

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

* Analytical holding time requirement not met.

TABLE 4-1.12

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 7196 - HEXAVALENT CHROMIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 7196 Date Prepared	USEPA 7196 Date Analyzed
7-BV-13	05/13/09	05/14/09	05/14/09
7-PZ-37	04/20/09	04/21/09	04/21/09
7-PZ-37 (MS)	04/20/09	04/21/09	04/21/09
7-PZ-37 (MSD)	04/20/09	04/21/09	04/21/09
7-PZ-37P	04/15/09	04/16/09	04/16/09
7-PZ-37P (FD)	04/15/09	04/16/09	04/16/09
7-PZ-37P (MS)	04/15/09	04/16/09	04/16/09
7-PZ-37P (MSD)	04/15/09	04/16/09	04/16/09
7-PZ-38P	05/12/09	05/13/09	05/13/09
MAFB-044	04/13/09	04/14/09	04/14/09
MAFB-044 (MS)	04/13/09	04/14/09	04/14/09
MAFB-044 (MSD)	04/13/09	04/14/09	04/14/09
MAFB-149	04/13/09	04/14/09	04/14/09
MAFB-284	04/14/09	04/15/09	04/15/09
MAFB-413	04/14/09	04/15/09	04/15/09
MAFB-424	04/14/09	04/15/09	04/15/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

5.0 QA/QC SUMMARY REPORT

The tables presented in this section correspond to Table A-7 of the Handbook (Appendix A, Tab 6), which has been separated into four distinct table types for this ADR. The Analytical Batch Summary (Table 5-1.1) contains the laboratory batch assignments of all field samples for each method utilized during the Second Quarter Groundwater Monitoring event. The Matrix Spike and Matrix Spike Duplicate Batch Summary (Table 5-1.2) identifies which field samples are associated with each Matrix Spike/Matrix Spike Duplicate sample for each method utilized. Laboratory method blank results for each batch are addressed in the Analytical Data Summary (Section 2.0). The Laboratory Control Sample Recovery Summary (Tables 5-2.1 through 5-2.8) contains accuracy results for each LCS analyzed with its associated analytical batch. The Matrix Spike and Matrix Spike Duplicate Recovery Summary (Tables 5-3.1 through 5-3.8) contains precision and accuracy results for each MS/MSD duplicate pair analyzed. The Laboratory Duplicate Summary (Table 5-4) contains precision results for each laboratory duplicate sample.

Results for carbonate, bicarbonate, and hydroxide alkalinity are by calculation. As a result, no quality control data have been provided for these results.

Due to the limitations of the current Electronic Data Deliverable (EDD) format, Relative Percent Differences (RPD) in Tables 5-3.1 through 5-3.8 are calculated using MS/MSD percent recoveries, rather than actual observed values, and therefore should not be used for validation purposes. This deviation is limited to these tables only. Data validation qualifiers applied due to RPD nonconformances are based on the calculation from actual MS/MSD values.

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
SM 2320 Alkalinity	T090425A	04/25/09	MB-04/25/09 7-PZ-23 7-PZ-24 7-PZ-25 7-PZ-26 MAFB-424
	T090427A	04/27/09	MB-04/27/09 7-EW-1 7-EW-2 7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PTI-04/16/09 (MS) 7-PTI-04/16/09 (MSD) ACW PTE-04/16/09 ACW PTI-04/16/09 ACW PTI-04/16/09 (FD) ACW PTI-04/16/09 (MS) ACW PTI-04/16/09 (MSD) MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD)
	T090501A	05/01/09	MB-05/01/09 MAFB-111 MAFB-288 MAFB-400 MAFB-400 (FD)
	T090519B	05/19/09	MB-05/19/09 7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-04 7-BV-06 7-BV-07 7-BV-08
	T090527A	05/27/09	MB-05/27/09 MAFB-005 MAFB-131 MAFB-132
SM 2320 Alkalinity	T090527A (continued)	05/27/09	MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136 MAFB-398 MAFB-398C
	T090528A	05/28/09	MB-05/28/09 MAFB-112

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-399
USEPA 130.2 Hardness	B090424A	04/24/09	MB-04/24/09 7-EW-1 7-EW-2 7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PTI-04/16/09 (MS) 7-PTI-04/16/09 (MSD) 7-PZ-23 7-PZ-24 7-PZ-25 7-PZ-26
	B090428A	04/28/09	MB-04/28/09 ACW PTE-04/16/09 ACW PTI-04/16/09 ACW PTI-04/16/09 (FD) ACW PTI-04/16/09 (MS) ACW PTI-04/16/09 (MSD) MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD)
	B090523A	05/23/09	MB-05/23/09 7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-04 7-BV-06 7-BV-07 7-BV-08
USEPA 160.1 Total Filterable Residue	M090415A	04/15/09	MB-04/15/09 7-PZ-23 7-PZ-24 7-PZ-25 7-PZ-26
	M090417A	04/17/09	MB-04/17/09 MAFB-424
	M090422A	04/23/09	MB-04/23/09 MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD)
	M090422C	04/23/09	MB-04/23/09 7-EW-1 7-EW-2 7-PTE-04/16/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PTI-04/16/09 (MS) 7-PTI-04/16/09 (MSD)
	M090422E	04/23/09	MB-04/22/09 ACW PTE-04/16/09 ACW PTI-04/16/09 ACW PTI-04/16/09 (FD) ACW PTI-04/16/09 (MS) ACW PTI-04/16/09 (MSD)
	M090428A	04/29/09	MB-04/29/09 MAFB-111 MAFB-288 MAFB-400 MAFB-400 (FD)
	M090513B	05/13/09	MB-05/13/09 7-BV-01 7-BV-04 7-BV-06 7-BV-08
	M090518A	05/18/09	MB-05/18/09 7-BV-02 7-BV-02 (FD)
USEPA 160.1 Total Filterable Residue	M090518A (continued)	05/18/09	7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-07
	M090518B	05/18/09	MB-05/18/09 MAFB-005 MAFB-132 MAFB-398 MAFB-398C
	M090520A	05/20/09	MB-05/20/09 MAFB-131 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136
	M090526B	05/26/09	MB-05/26/09 MAFB-112 MAFB-399
USEPA 160.2 Total Suspended Solids	M090421B	04/21/09	MB-04/21/09 MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	D090414A	04/14/09	MB-04/14/09 7-PZ-23 7-PZ-24

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			7-PZ-25 7-PZ-26
	D090414B	04/14/09	MB-04/14/09 MAFB-424
	D090417A	04/17/09	MB-04/17/09 7-EW-1 7-EW-2 7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PTI-04/16/09 (MS) 7-PTI-04/16/09 (MSD) ACW PTE-04/16/09 ACW PTI-04/16/09 ACW PTI-04/16/09 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	D090417A (continued)	04/17/09	ACW PTI-04/16/09 (MS) ACW PTI-04/16/09 (MSD) MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD)
	D090427A	04/27/09	MB-04/27/09 MAFB-111 MAFB-288 MAFB-400 MAFB-400 (FD)
	D090429A	04/29/09	MB-04/29/09 7-EW-1 7-EW-2 7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PTI-04/16/09 (MS) 7-PTI-04/16/09 (MSD)
	D090513A	05/13/09	MB-05/13/09 7-BV-01 7-BV-01 (RE) 7-BV-04 7-BV-04 (RE) 7-BV-06 7-BV-06 (RE) 7-BV-08 7-BV-08 (RE)
	D090514A	05/14/09	MB-05/14/09 7-BV-02 7-BV-02 (FD) 7-BV-02 (FD)(RE) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-02 (RE)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			7-BV-07
			7-BV-07 (RE)
	D090515A	05/15/09	MB-05/15/09
			MAFB-005
			MAFB-132
			MAFB-398
USEPA 300.0	D090515A	05/15/09	MAFB-398C
Chloride, Nitrate, and Sulfate	(continued)		
	D090519A	05/19/09	MB-05/19/09
			MAFB-131
			MAFB-133
			MAFB-133 (FD)
			MAFB-133 (MS)
			MAFB-133 (MSD)
			MAFB-136
	D090520A	05/20/09	MB-05/20/09
			MAFB-112
			MAFB-399
USEPA 314.0	D090428A	04/29/09	MB-04/29/09
Perchlorate			ACW PTE-04/16/09
			ACW PTE-04/16/09 (FD)
			ACW PTE-04/16/09 (MS)
			ACW PTE-04/16/09 (MSD)
			MBS PTE AF-04/16/09
			MBS PTE AF-04/16/09 (FD)
			MBS PTE AF-04/16/09 (MS)
			MBS PTE AF-04/16/09 (MSD)
USEPA 340.2	M090420A	04/20/09	MB-04/20/09
Fluoride			MAFB-424
	M090501A	05/01/09	MB-05/01/09
			MAFB-111
			MAFB-288
			MAFB-400
			MAFB-400 (FD)
	M090526A	05/26/09	MB-05/26/09
			MAFB-005
			MAFB-112
			MAFB-131
			MAFB-132
			MAFB-133
			MAFB-133 (FD)
			MAFB-133 (MS)
			MAFB-133 (MSD)
			MAFB-136
			MAFB-398
			MAFB-398C
			MAFB-399
USEPA 376.1	090415A	04/15/09	MB-04/15/09
Sulfide, total			MAFB-424

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	090424A	04/24/09	MB-04/24/09 MAFB-111 MAFB-288 MAFB-400 MAFB-400 (FD)
	090515A	05/15/09	MB-05/15/09 MAFB-005 MAFB-132 MAFB-398 MAFB-398C
	090519A	05/19/09	MB-05/19/09 MAFB-131 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136
	090520A	05/20/09	MB-05/20/09 MAFB-112 MAFB-399
USEPA 524.2 VOCs	C090504A	05/05/09	MB-05/05/09 OFB-04-04/28/09 OFB-04M-04/28/09 OFB-27 OFB-27 (MS) OFB-27 (MSD) OFB-31 OFB-51/52I-04/28/09 OFB-51/52M-04/28/09 OFB-52 OFB-52 (MS) OFB-52 (MSD)
	C090504B	05/05/09	MB-05/05/09 OFB-27 (FD) OFB-32 OFB-49 OFB-51 OFB-52 (FD) OFB-54
USEPA 524.2 VOCs	C090504B (continued)	05/05/09	OFB-56 TB-04/28/09
	C090706A	07/06/09	MB-07/06/09 OFB-04-06/30/09 OFB-04M-06/30/09 OFB-51/52I-06/30/09 OFB-51/52M-06/30/09 TB-06/30/09
	N090427A	04/28/09	MB-04/28/09 MAFB-323 MAFB-327

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-330
			MAFB-336
			MAFB-349
			TB-04/14/09
	N090428A	04/28/09	MB-04/28/09
			MAFB-271
			MAFB-319
			MAFB-319 (FD)
			MAFB-321
			MAFB-322
			MAFB-324
			MAFB-324 (FD)
			MAFB-324 (MS)
			MAFB-324 (MSD)
			MAFB-326
			MAFB-328
			MAFB-337
			MAFB-338
	S090528A	05/28/09	MB-05/28/09
			OFB-04-05/26/09
			OFB-04M-05/26/09
			OFB-51/52I-05/26/09
			OFB-51/52M-05/26/09
	S090609A	06/09/09	MB-06/09/09
			MB-4
			TB-06/02/09
USEPA 8015 Modified TPH as Diesel	A090416A	04/16/09	MB-04/16/09
			7-PZ-37P
			7-PZ-37P (FD)
			7-PZ-37P (MS)
USEPA 8015 Modified TPH as Diesel	A090416A (continued)	04/16/09	7-PZ-37P (MSD)
			MAFB-044
			MAFB-149
			MAFB-284
			MAFB-413
	A090421A	04/21/09	MB-04/21/09
			ACW PTE-04/16/09
			ACW PTE-04/16/09 (FD)
			ACW PTE-04/16/09 (MS)
			ACW PTE-04/16/09 (MSD)
	A090423A	04/23/09	MB-04/23/09
			7-EW-1
			7-EW-2
			7-PTE-04/16/09
			7-PTI-04/16/09
			7-PTI-04/16/09 (FD)
			7-PTI-04/16/09 (MS)
			7-PTI-04/16/09 (MSD)
			7-PZ-37
			MBS PTE AF-04/16/09
			MBS PTI-04/16/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD)
	A090515A	05/15/09	MB-05/15/09 7-BV-13 7-PZ-38P MAFB-359
	A090526A	05/26/09	MB-05/26/09 MAFB-419
	A090528A	05/28/09	MB-05/28/09 MAFB-372B MAFB-414 MAFB-439
USEPA 8015 Modified TPH as Gasoline	H090404B	04/05/09	MB-04/05/09 7-PTE-04/02/09 TB-04/02/09
	H090418A	04/18/09	MB-04/18/09 TB-04/13/09 TB-04/14/09
USEPA 8015 Modified TPH as Gasoline (continued)	H090419A	04/19/09	MB-04/19/09 MAFB-149 MAFB-284 MAFB-413
	H090420B	04/20/09	MB-04/20/09 MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD) TB-04/16/09
	H090421A	04/21/09	MB-04/21/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MBS EW-2AR TB-04/15/09
	H090421B	04/21/09	MB-04/21/09 7-EW-1 7-EW-2 7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PTI-04/16/09 (MS) 7-PTI-04/16/09 (MSD)
	H090430A	04/30/09	MB-04/30/09 7-PZ-37 MBS EW-1D

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			TB-04/17/09 TB-04/20/09
	H090512A	05/12/09	MB-05/12/09 7-PTE-04/30/09 TB-04/30/09
	H090520A	05/20/09	MB-05/20/09 7-PZ-38P TB-05/12/09
	H090521A	05/21/09	MB-05/21/09 7-BV-13 TB-05/13/09
USEPA 8015 Modified TPH as Gasoline (continued)	H090521B	05/21/09	MB-05/21/09 7-PTE-05/14/09 TB-05/14/09
	H090601A	06/01/09	MB-06/01/09 MAFB-203 MAFB-314 MAFB-414 MAFB-417 MAFB-419 MAFB-428 MAFB-439 TB-05/21/09 TB-05/26/09
	H090609A	06/08/09	MB-06/08/09 7-PTE-05/28/09 TB-05/28/09
	H090625A	06/25/09	MB-06/25/09 7-PTE-06/11/09 TB-06/11/09
	H090708A	07/08/09	MB-07/08/09 7-PTE-06/25/09 TB-06/25/09
USEPA 6010 ICP Metals	P090416B	04/16/09	MB-04/16/09 7-PZ-23 7-PZ-24 7-PZ-25 7-PZ-26 MAFB-044 MAFB-149
	P090417A	04/17/09	MB-04/17/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-284 MAFB-413 MAFB-424

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	P090420B	04/20/09	MB-04/20/09 7-EW-1 7-EW-2
USEPA 6010 ICP Metals	P090420B (continued)	04/20/09	7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PTI-04/16/09 (MS) 7-PTI-04/16/09 (MSD) ACW PTE-04/16/09 ACW PTI-04/16/09 ACW PTI-04/16/09 (FD) ACW PTI-04/16/09 (MS) ACW PTI-04/16/09 (MSD) MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD)
	P090422A	04/22/09	MB-04/22/09 7-PZ-37
	P090423A	04/23/09	MB-04/23/09 MAFB-129
	P090427A	04/27/09	MB-04/27/09 MAFB-111 MAFB-288 MAFB-400 MAFB-400 (FD)
	P090505A	05/05/09	MB-05/05/09 MAFB-013
	P090513A	05/13/09	MB-05/13/09 7-BV-01 7-BV-04 7-BV-06 7-BV-08 7-PZ-38P
	P090515A	05/15/09	MB-05/15/09 7-BV-02 7-BV-02 (FD) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-07 7-BV-13
USEPA 6010 ICP Metals (continued)	P090518A	05/18/09	MB-05/18/09 MAFB-005 MAFB-132 MAFB-398 MAFB-398C

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	P090521A	05/21/09	MB-05/21/09 MAFB-112 MAFB-131 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136 MAFB-140 MAFB-399 MAFB-440 MAFB-440P
	P090529A	05/29/09	MB-05/29/09 MAFB-439
	P090602A	06/02/09	MB-06/02/09 MAFB-202
USEPA 6020 Thallium	O090421A	04/21/09	MB-04/21/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-044 MAFB-149 MAFB-284 MAFB-413 MAFB-424 MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD)
	O090430B	04/30/09	MB-04/30/09 7-PZ-37 MAFB-111 MAFB-288 MAFB-400 MAFB-400 (FD)
USEPA 6020 Thallium (continued)	O090514A	05/14/09	MB-05/14/09 7-PZ-38P
	O090515B	05/15/09	MB-05/15/09 7-BV-13
	O090520A	05/20/09	MB-05/20/09 MAFB-005 MAFB-131 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136 MAFB-398

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-398C
	O090522A	05/22/09	MB-05/22/09 MAFB-112 MAFB-399 MAFB-440 MAFB-440P
USEPA 7196 Hexavalent Chromium	M090414A	04/14/09	MB-04/14/09 MAFB-044 MAFB-044 (MS) MAFB-044 (MSD) MAFB-149
	M090415A	04/15/09	MB-04/15/09 MAFB-284 MAFB-413 MAFB-424
	M090416A	04/16/09	MB-04/16/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD)
	M090421A	04/21/09	MB-04/21/09 7-PZ-37 7-PZ-37 (MS) 7-PZ-37 (MSD)
USEPA 7196 Hexavalent Chromium (continued)	M090513A	05/13/09	MB-05/13/09 7-PZ-38P
	M090514A	05/14/09	MB-05/14/09 7-BV-13
USEPA 7470 Mercury	F090416A	04/16/09	MB-04/16/09 MAFB-044 MAFB-149
	F090417A	04/17/09	MB-04/17/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-284 MAFB-413 MAFB-424
	F090421B	04/21/09	MB-04/21/09 MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	F090422A	04/22/09	MB-04/22/09 7-PZ-37
	F090427A	04/27/09	MB-04/27/09 MAFB-111 MAFB-288 MAFB-400 MAFB-400 (FD)
	F090520A	05/20/09	MB-05/20/09 7-BV-13 7-PZ-38P MAFB-005 MAFB-131 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136 MAFB-398
USEPA 7470 Mercury	F090520A (continued)	05/20/09	MAFB-398C
	F090521A	05/21/09	MB-05/21/09 MAFB-112 MAFB-399 MAFB-440 MAFB-440P
USEPA 8081 Pesticides	E090421A	04/21/09	MB-04/21/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-284 MAFB-413
	L090423B	04/23/09	MB-04/23/09 7-PZ-37
USEPA 8082 PCBs	E090421A	04/21/09	MB-04/21/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-284 MAFB-413
	L090423A	04/23/09	MB-04/23/09 7-PZ-37
USEPA 8260 VOCs	C090409A	04/09/09	MB-04/09/09 7-PTE-04/02/09 ACW PTE-04/02/09 MBS PTE AF-04/02/09 TB-04/02/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 14 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	C090427A	04/28/09	MB-04/28/09 MBS EW-2AR MBS EW-3Bu MBS EW-5D MBS EW-6D MBS EW-10B MBS EW-10B (FD) MBS EW-10B (MS) MBS EW-10B (MSD) MBS EW-11B
USEPA 8260 VOCs	C090427A (continued)	04/28/09	MBS EW-12B MBS EW-13BuB
	C090428A	04/28/09	MB-04/28/09 ACW PTI-04/16/09 ACW PTI-04/16/09 (FD) ACW PTI-04/16/09 (MS) ACW PTI-04/16/09 (MSD) ACW R2 MBS EW-4Bu MBS EW-9B MBS PTI-04/16/09 MBS PTI-04/16/09 (FD) MBS PTI-04/16/09 (MS) MBS PTI-04/16/09 (MSD) TB-04/16/09
	C090429A	04/29/09	MB-04/29/09 7-EW-1 7-EW-2 7-EW-2 (FD) 7-EW-2 (MS) 7-EW-2 (MSD) 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PTI-04/16/09 (MS) 7-PTI-04/16/09 (MSD) MBS EW-1D MBS EW-4D MBS EW-12AB TB-04/17/09
	C090528A	05/28/09	MB-05/28/09 MAFB-090 MAFB-206 MAFB-371D MAFB-372B MAFB-372D MAFB-414 MAFB-414 (FD) MAFB-439 TB-05/26/09
	C090529A	05/29/09	MB-05/29/09 7-PTE-05/28/09 ACW PTE-05/28/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 15 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 8260 VOCs (continued)	C090529A	05/29/09	MAFB-444 MAFB-445 MAFB-446 MAFB-446 (FD) MAFB-447 MAFB-448 MAFB-456 MBS PTE AF-05/28/09 TB-05/27/09 TB-05/28/09
	C090529B	05/30/09	MB-05/30/09 MAFB-042 MAFB-285 MAFB-297 MAFB-300 MAFB-370 MAFB-371C MAFB-373C MAFB-373C (FD) MAFB-373D MAFB-373D (MS) MAFB-373D (MSD)
	C090612A	06/12/09	MB-06/12/09 7-PTE-06/11/09 ACW PTE-06/11/09 MBS PTE AF-06/11/09 TB-06/11/09
	C090616A	06/16/09	MB-06/16/09 TB-06/15/09
	C090617A	06/17/09	MB-06/17/09 MAFB-041 MAFB-056 MAFB-191 MAFB-251 MAFB-344 MAFB-392
	C090624A	06/24/09	MB-06/24/09 OFB-82 OFB-83
	H090603A	06/03/09	MB-06/03/09 MAFB-420 (RE)
USEPA 8260 VOCs (continued)	M090415A	04/15/09	MB-04/15/09 MAFB-331 MAFB-353 MAFB-354B MAFB-354D
	M090415B	04/16/09	MB-04/16/09 MAFB-044 MAFB-149

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 16 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-356B
			MAFB-387B
			MAFB-387Dd
			MAFB-388B
			MAFB-388Ds
			MAFB-426
			MAFB-427
	M090425B	04/26/09	MB-04/26/09
			MAFB-270
			MAFB-293
			MAFB-311
			MAFB-312
			MAFB-318
			MAFB-382B
			MAFB-382B (FD)
			MAFB-382D
	M090427A	04/27/09	MB-04/27/09
			MBS EW-1B
			MBS EW-1Bu
			MBS EW-1Bu (FD)
			MBS EW-1Bu (MS)
			MBS EW-1Bu (MSD)
			MBS EW-2B
			MBS EW-2D
			MBS EW4ABu
			MBS EW5ABu
			MBS EW-5B
			MBS EW-6B
			MBS EW-8B
	M090427B	04/28/09	MB-04/28/09
			ACW AT-1
			ACW AT-1 (FD)
			ACW AT-1 (MS)
			ACW AT-1 (MSD)
			ACW AT-2
USEPA 8260 VOCs	M090427B (continued)	04/28/09	ACW EW-1
			ACW EW-2
			ACW EW-3
			ACW EW-4
			ACW EW-6R
			MBS EW-3D
			MBS EW-7B
	M090428A	04/28/09	MB-04/28/09
			MBS 39ABuB
			MBS EW1ABu
			MBS EW2ABu
			MBS EW-3B
			MBS EW-3B (FD)
			MBS EW-3B (MS)
			MBS EW-3B (MSD)
			MBS EW-4A
			MBS EW-4B
			MBS EW6ABu

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 17 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MBS EW7ABu
	M090428B	04/29/09	MB-04/29/09 MAFB-261 MAFB-263 MAFB-269 MAFB-332 MAFB-346Bd MAFB-380B MAFB-380B (FD) MAFB-380D MAFB-385D MAFB-412
	M090429A	04/29/09	MB-04/29/09 MAFB-346Bs MAFB-346D MAFB-351D MAFB-368B MAFB-368D MAFB-368D (FD) MAFB-368D (MS) MAFB-368D (MSD) MAFB-381B MAFB-381D MAFB-411 MAFB-411 (FD) TB-04/21/09
USEPA 8260 VOCs (continued)	M090429B	04/30/09	MB-04/30/09 MAFB-067 MAFB-068 MAFB-068 (FD) MAFB-069 MAFB-129 MAFB-294 MAFB-401 MAFB-401 (FD) MAFB-402 MAFB-403 MAFB-408 TB-04/22/09
	M090430A	04/30/09	MB-04/30/09 ACW PZ-06C ACW PZ-07C ACW PZ-08C MAFB-053 MAFB-111 MAFB-259 MAFB-260 MAFB-267 MAFB-268 MAFB-288 MAFB-400 MAFB-400 (FD)
	M090430B	05/01/09	MB-04/30/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 18 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			ACW PZ-02 ACW PZ-05 ACW PZ-09C ACW PZ-10C MAFB-078 MAFB-194 MAFB-194 (MS) MAFB-194 (MSD) MAFB-196 MAFB-301 MAFB-301 (FD) MAFB-301 (MS) MAFB-301 (MSD) MAFB-302
	M090501A	05/01/09	MB-05/01/09 MAFB-013 MAFB-104
USEPA 8260 VOCs	M090501A (continued)	05/01/09	MAFB-151 MAFB-175 MAFB-247 MAFB-249 MAFB-258 MAFB-364B MAFB-364D MAFB-365B MAFB-365D MAFB-369 MAFB-423B
	M090504A	05/04/09	MB-05/04/09 MAFB-423 MAFB-423B (FD) MBS PZ-37
	M090505B	05/06/09	MB-05/06/09 MAFB-172 MAFB-173 MAFB-174 MAFB-176
	M090506A	05/06/09	MB-05/06/09 MAFB-232 MAFB-246 MAFB-248 MAFB-265 MAFB-265 (FD) MAFB-265 (MS) MAFB-265 (MSD) MAFB-313 MAFB-377 MAFB-383B
	M090507A	05/07/09	MB-05/07/09 MAFB-059 MAFB-193 MAFB-198

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 19 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-215 (FD)
			MAFB-306
			MAFB-347
			MAFB-348B
			MAFB-348Dd
			MAFB-348Ds
			MAFB-367
			MAFB-422
USEPA 8260 VOCs	M090507A (continued)	05/07/09	MAFB-425
			MBS PZ-38
	M090508A	05/08/09	MB-05/08/09
			MAFB-094
			MAFB-096
			MAFB-155
			MAFB-180
			MAFB-200 (FD)
			MAFB-273
			MAFB-291
			MAFB-292
			MAFB-292 (MS)
			MAFB-292 (MSD)
			MAFB-366D (FD)
			MBS PZ-58
	M090508B	05/09/09	MB-05/09/09
			MAFB-006
			MAFB-375
			MAFB-376
			MBS PZ-11
			MBS PZ-42D
	M090511A	05/11/09	MB-05/11/09
			MAFB-047
			MAFB-047 (MS)
			MAFB-047 (MSD)
			TB-05/08/09
	M090512A	05/12/09	MB-05/12/09
			MAFB-047 (FD)
			MAFB-060
			MAFB-167
			MAFB-229
			MAFB-231
			MAFB-274
			MAFB-341
			MAFB-384B
			MAFB-384D
			MAFB-407
			MBS PZ-50D
			MBS PZ-50S
	M090512B	05/13/09	MB-05/13/09
			MAFB-062
			MAFB-170
USEPA 8260 VOCs	M090512B (continued)	05/13/09	MAFB-171
			MAFB-177

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 20 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-199
			MAFB-230
			MAFB-282
			MAFB-340
			MAFB-342
			MAFB-357D
			MAFB-357D (FD)
			MAFB-357Dd
			MAFB-357Ds
			MAFB-358B
			MAFB-358D
			TB-05/07/09
	M090513A	05/13/09	MB-05/13/09
			7-PZ-38P
			MAFB-361
	M090515A	05/15/09	MB-05/15/09
			7-BV-01
			7-BV-02
			7-BV-02 (FD)
			7-BV-04
			7-BV-06
			7-BV-07
			7-BV-08
			7-BV-13
			MAFB-239
			TB-05/11/09
			TB-05/12/09
			TB-05/13/09
	M090521A	05/21/09	MB-05/21/09
			FFS MW15-6
			MAFB-048
			MAFB-061
			MAFB-101
			MAFB-102
			MAFB-211
			MAFB-217
			MAFB-224
			MAFB-410
			MBS PZ-52
			TB-05/20/09
USEPA 8260 VOCs (continued)	M090601A	06/01/09	MB-06/01/09
			MAFB-314 (RE)
	M090604A	06/04/09	MB-06/04/09
			OFB-78
			OFB-79
			OFB-81
	M090604N	06/04/09	MB-06/04/09
			OFB-53
			OFB-57
			OFB-67

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 21 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			OFB-68
			OFB-69
			OFB-69 (MS)
			OFB-69 (MSD)
			OFB-70
			OFB-71
			OFB-72-06/01/09
	M090605A	06/05/09	MB-06/05/09
			MAFB-159
			MAFB-202
			OFB-17 (FD)
			OFB-48
			OFB-73
			OFB-74
			OFB-75
			OFB-76
			OFB-77
			OFB-80
			OFB-81
			TB-06/01/09
			TB-06/02/09
	N090427A	04/27/09	MB-04/27/09
			7-PTE-04/16/09
			7-PZ-37P
			7-PZ-37P (FD)
			7-PZ-37P (MS)
			7-PZ-37P (MSD)
			ACW PTE-04/16/09
			MAFB-148
			MAFB-284
			MAFB-413
			MAFB-424
			MBS PTE AF-04/16/09
USEPA 8260 VOCs	N090427A (continued)	04/27/09	TB-04/13/09
			TB-04/14/09
			TB-04/15/09
	N090430A	04/30/09	MB-04/30/09
			7-PZ-37
			MAFB-437Dd
			MAFB-437Ds
			MAFB-453
			MAFB-453C
			TB-04/20/09
			TB-04/23/09
	N090505A	05/05/09	MB-05/05/09
			FFS EW15-1
			FFS EW15-2
			FFS MW15-1
			FFS MW15-2
			FFS MW15-3
			MAFB-386D
			MAFB-429Bd
			MAFB-429Bs

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 22 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-441
			MAFB-451
			MAFB-452B
			MAFB-452Bu
			TB-04/29/09
			TB-04/30/09
	N090505B	05/06/09	MB-05/06/09
			MAFB-429Bs (FD)
			MAFB-429Bu
			MAFB-431Bd
			MAFB-431Dd
			MAFB-431Ds
			MAFB-434Bd
			MAFB-434Bs
			MAFB-434Bs (MS)
			MAFB-434Bs (MSD)
			MAFB-450
	N090506A	05/06/09	MB-05/06/09
			MAFB-181
			MAFB-200
			MAFB-200 (MS)
			MAFB-200 (MSD)
			MAFB-215
USEPA 8260 VOCs	N090506A (continued)	05/06/09	MAFB-215 (MS)
			MAFB-215 (MSD)
			MAFB-290
			MAFB-329
			MAFB-352D
			MAFB-352D (MS)
			MAFB-352D (MSD)
			MAFB-366B
			MAFB-366D
	N090507A	05/07/09	MB-05/07/09
			MAFB-109
			MAFB-391
			MAFB-393
			MAFB-394
			MAFB-395
			MAFB-395 (FD)
			MAFB-396
			MAFB-435
			MBS PZ-42S
			TB-05/06/09
	N090515A	05/15/09	MB-05/15/09
			MAFB-063
			MAFB-164
			MAFB-168
			MAFB-201
			MAFB-205
			MAFB-216
			MAFB-216 (MS)
			MAFB-216 (MSD)
			MAFB-220

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 23 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-227 MAFB-240 MAFB-266 MAFB-359 MBS PZ-55B MBS PZ-55Bu
	N090515B	05/16/09	MB-05/16/09 MAFB-005 MAFB-132 MAFB-216 (FD) MAFB-235 MAFB-243 MAFB-264 MAFB-363
USEPA 8260 VOCs	N090515B (continued)	05/16/09	MAFB-398 MAFB-398C
	N090519A	05/19/09	MB-05/19/09 MAFB-131 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136 MAFB-214 MAFB-223 MAFB-362
	N090526A	05/25/09	MB-05/25/09 MAFB-221 MAFB-250 MAFB-404 MAFB-405 MAFB-405 (FD) MAFB-415 MAFB-418 TB-05/22/09
	N090603A	06/03/09	MB-06/03/09 OFB-40 OFB-43 OFB-46 OFB-47
	S090414A	04/14/09	MB-04/14/09 MAFB-387Ds MAFB-388Dd MAFB-443 MAFB-459D MAFB-459Dd
	S090501B	05/01/09	MB-05/01/09 MAFB-432 MAFB-449Bd MAFB-449Bs MAFB-454

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 24 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-454C
			MAFB-457Bd
			MAFB-457Bs
			MAFB-457Bs (FD)
			MAFB-458Bd
USEPA 8260	S090501B	05/01/09	MAFB-458Bs
VOCs	(continued)		TB-04/24/09
	S090506A	05/06/09	MB-05/06/09
			7-PTE-04/30/09
			ACW PTE-04/30/09
			MAFB-433
			MAFB-433 (FD)
			MAFB-434Bu
			MAFB-434Bu (FD)
			MAFB-438
			MAFB-455
			MAFB-456C
			MBS PTE AF-04/30/09
			TB-04/27/09
			TB-05/01/09
			TB-05/04/09
			TB-05/05/09
	S090507A	05/07/09	MB-05/07/09
			MAFB-155 (FD)
			MAFB-292 (FD)
			MAFB-376 (FD)
			MAFB-378B
			MAFB-378B (FD)
			MAFB-378D
			MAFB-378D (MS)
			MAFB-378D (MSD)
			MAFB-379B
			MAFB-379D
			MAFB-397
			MBS PZ-42D (FD)
	S090518A	05/18/09	MB-05/18/09
			7-PTE-05/14/09
			ACW PTE-05/14/09
			MBS PTE AF-05/14/09
			TB-05/14/09
	S090519A	05/19/09	MB-05/19/09
			MAFB-430
			MAFB-442
			MBS PZ-51
			TB-05/18/09
	S090520B	05/21/09	MB-05/21/09
			MAFB-112
USEPA 8260	S090520B	05/21/09	MAFB-399
VOCs	(continued)		MAFB-440
			MAFB-440P
			TB-05/19/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 25 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	S090521A	05/21/09	MB-05/21/09
			MAFB-222
			MAFB-242
			MBS PZ-12
			MBS PZ-13
			MBS PZ-14
			MBS PZ-15
	S090522A	05/22/09	MB-05/22/09
			MAFB-033
			MAFB-203
			MAFB-417
			MAFB-419
			MAFB-428
			MBS PZ-44
			MBS PZ-44 (MS)
			MBS PZ-44 (MSD)
			MBS PZ-49D
			MBS PZ-54
			TB-05/21/09
	S090522B	05/23/09	MB-05/23/09
			MAFB-122
			MAFB-204
			MAFB-218
			MAFB-308
			MAFB-314
			MAFB-320
	S090602A	06/02/09	MB-06/02/09
			MAFB-207
			MAFB-209
			MAFB-210
			MAFB-212
			MAFB-228
			MAFB-296
			MAFB-339
			MAFB-374
			MAFB-420
	S090602B	06/03/09	MB-06/03/09
			OFB-06
USEPA 8260 VOCs	S090602B (continued)	06/03/09	OFB-07
			OFB-09
			OFB-12
			OFB-17
			OFB-17 (MS)
			OFB-17 (MSD)
			OFB-24
			OFB-39
			OFB-53 (FD)
			OFB-69
			TB-05/29/09
	S090603B	06/03/09	MB-06/03/09
			MAFB-123
			MBS PZ-39

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 26 of 26)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MBS PZ-53
	S090629A	06/29/09	MB-06/29/09 7-PTE-06/25/09 ACW PTE-06/25/09 MBS PTE AF-06/25/09 TB-06/25/09
	S090701A	07/01/09	MB-07/01/09 OFB-72-06/29/09 TB-06/29/09
USEPA 8270 PAHs	Y090417A	04/17/09	MB-04/17/09 MAFB-284 MAFB-413
	Y090421C	04/21/09	MB-04/21/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD)
	Y090427A	04/27/09	MB-04/27/09 7-PZ-37
	Y090526A	05/26/09	MB-05/26/09 MAFB-440 MAFB-440P

Notes:
FD - Field Duplicate
ICP - Inductively Coupled Plasma
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
PAHs - Polynuclear Aromatic Hydrocrabons
PCBs - Polychlorinated Biphenyls
SM - Standard Methods
TB - Trip Blank
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
SM 2320 Alkalinity	7-BV-02	7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-04 7-BV-06 7-BV-07 7-BV-08 MAFB-424
	7-PTI-04/16/09	7-EW-1 7-EW-2 7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PZ-23 7-PZ-24 7-PZ-25 7-PZ-26
	ACW PTI-04/16/09	ACW PTE-04/16/09 ACW PTI-04/16/09 ACW PTI-04/16/09 (FD)
	MAFB-133	MAFB-005 MAFB-111 MAFB-112 MAFB-131 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-288 MAFB-398 MAFB-398C MAFB-399 MAFB-400 MAFB-400 (FD)
	MBS PTI-04/16/09	MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD)
USEPA 130.2 Hardness	7-BV-02	7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-04 7-BV-06 7-BV-07
USEPA 130.2 Hardness	7-BV-02 (continued)	7-BV-08
	7-PTI-04/16/09	7-EW-1 7-EW-2 7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PZ-23 7-PZ-24

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		7-PZ-25
		7-PZ-26
	ACW PTI-04/16/09	ACW PTE-04/16/09
		ACW PTI-04/16/09
		ACW PTI-04/16/09 (FD)
	MBS PTI-04/16/09	MBS PTE AF-04/16/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
USEPA 160.1 Total Filterable Residue	7-BV-02	7-BV-01
		7-BV-02
		7-BV-02 (FD)
		7-BV-04
		7-BV-06
		7-BV-07
		7-BV-08
		MAFB-424
	7-PTI-04/16/09	7-EW-1
		7-EW-2
		7-PTE-04/16/09
		7-PTI-04/16/09
		7-PTI-04/16/09 (FD)
		7-PZ-23
		7-PZ-24
		7-PZ-25
		7-PZ-26
	ACW PTI-04/16/09	ACW PTE-04/16/09
		ACW PTI-04/16/09
		ACW PTI-04/16/09 (FD)
	MAFB-133	MAFB-005
		MAFB-111
		MAFB-112
		MAFB-131
USEPA 160.1 Total Filterable Residue	MAFB-133 (continued)	MAFB-132
		MAFB-133
		MAFB-133 (FD)
		MAFB-136
		MAFB-288
		MAFB-398
		MAFB-398C
		MAFB-399
		MAFB-400
		MAFB-400 (FD)
	MBS PTI-04/16/09	MBS PTE AF-04/16/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
USEPA 160.2 Total Suspended Solids	NA	MBS PTE AF-04/16/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
USEPA 300.0	7-BV-02	7-BV-01

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
Chloride, Nitrate, and Sulfate		7-BV-02
		7-BV-02 (FD)
		7-BV-04
		7-BV-06
		7-BV-07
		7-BV-08
		MAFB-424
	7-PTI-04/16/09	7-EW-1
		7-EW-1
		7-EW-2
		7-EW-2
		7-PTE-04/16/09
		7-PTI-04/16/09
		7-PTI-04/16/09 (FD)
		7-PZ-23
		7-PZ-24
		7-PZ-25
		7-PZ-26
	ACW PTI-04/16/09	ACW PTE-04/16/09
		ACW PTI-04/16/09
		ACW PTI-04/16/09 (FD)
	MAFB-133	MAFB-005
		MAFB-111
		MAFB-112
		MAFB-131
USEPA 300.0	MAFB-133	MAFB-132
Chloride, Nitrate, and Sulfate	(continued)	MAFB-133
		MAFB-133 (FD)
		MAFB-136
		MAFB-288
		MAFB-398
		MAFB-398C
		MAFB-399
		MAFB-400
		MAFB-400 (FD)
	MBS PTI-04/16/09	MBS PTE AF-04/16/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
USEPA 314.0	ACW PTE-04/16/09	ACW PTE-04/16/09
Perchlorate		ACW PTE-04/16/09 (FD)
	MBS PTE AF-04/16/09	MBS PTE AF-04/16/09
		MBS PTE AF-04/16/09 (FD)
USEPA 340.2	MAFB-133	MAFB-005
Fluoride		MAFB-111
		MAFB-112
		MAFB-131
		MAFB-132
		MAFB-133
		MAFB-133 (FD)
		MAFB-136
		MAFB-288

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-398
		MAFB-398C
		MAFB-399
		MAFB-400
		MAFB-400 (FD)
		MAFB-424
USEPA 376.1	MAFB-133	MAFB-005
Sulfide, total		MAFB-111
		MAFB-112
		MAFB-131
		MAFB-132
		MAFB-133
		MAFB-133 (FD)
		MAFB-136
		MAFB-288
		MAFB-398
		MAFB-398C
USEPA 376.1	MAFB-133	MAFB-399
Sulfide, total	(continuned)	MAFB-400
		MAFB-400 (FD)
		MAFB-424
USEPA 524.2	MAFB-324	MAFB-271
VOCs		MAFB-319
		MAFB-319 (FD)
		MAFB-321
		MAFB-322
		MAFB-323
		MAFB-324
		MAFB-324 (FD)
		MAFB-326
		MAFB-327
		MAFB-328
		MAFB-330
		MAFB-336
		MAFB-337
		MAFB-338
		MAFB-349
	OFB-27	OFB-27
		OFB-27 (FD)
		OFB-31
		OFB-32
		OFB-49
	OFB-52	MB-4
		OFB-04-04/28/09
		OFB-04-05/26/09
		OFB-04-06/30/09
		OFB-04M-04/28/09
		OFB-04M-05/26/09
		OFB-04M-06/30/09
		OFB-51
		OFB-51/52I-04/28/09
		OFB-51/52I-05/26/09
		OFB-51/52I-06/30/09
		OFB-51/52M-04/28/09

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		OFB-51/52M-05/26/09
		OFB-51/52M-06/30/09
		OFB-52
		OFB-52 (FD)
		OFB-54
		OFB-56
USEPA 8015 Modified TPH as Diesel	7-PTI-04/16/09	7-EW-1
		7-EW-2
		7-PTE-04/16/09
		7-PTI-04/16/09
		7-PTI-04/16/09 (FD)
		MAFB-372B
	7-PZ-37P	7-BV-13
		7-PZ-37
		7-PZ-37P
		7-PZ-37P (FD)
		7-PZ-38P
		MAFB-044
		MAFB-149
		MAFB-284
		MAFB-413
	ACW PTE-04/16/09	ACW PTE-04/16/09
		ACW PTE-04/16/09 (FD)
	MBS PTI-04/16/09	MAFB-359
		MAFB-414
		MAFB-419
		MAFB-439
		MBS PTE AF-04/16/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
USEPA 8015 Modified TPH as Gasoline	7-PTI-04/16/09	7-EW-1
		7-EW-2
		7-PTE-04/02/09
		7-PTE-04/16/09
		7-PTE-04/30/09
		7-PTE-05/14/09
		7-PTE-05/28/09
		7-PTE-06/11/09
		7-PTE-06/25/09
		7-PTI-04/16/09
		7-PTI-04/16/09 (FD)
	7-PZ-37P	7-BV-13
		7-PZ-37
		7-PZ-37P
		7-PZ-37P (FD)
		7-PZ-38P
		MAFB-149
		MAFB-284
		MAFB-413
USEPA 8015 Modified TPH as Gasoline	MBS PTI-04/16/09	MAFB-203
		MAFB-314

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
(continued)		MAFB-414 MAFB-417 MAFB-419 MAFB-428 MAFB-439 MBS EW-1D MBS EW-2AR MBS PTE AF-04/16/09 MBS PTI-04/16/09 MBS PTI-04/16/09 (FD)
USEPA 6010 ICP Metals	7-BV-02	7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-04 7-BV-06 7-BV-07 7-BV-08 7-BV-13 7-PZ-38P MAFB-440 MAFB-440P
	7-PTI-04/16/09	7-EW-1 7-EW-2 7-PTE-04/16/09 7-PTI-04/16/09 7-PTI-04/16/09 (FD) 7-PZ-23 7-PZ-24 7-PZ-25 7-PZ-26
	7-PZ-37P	7-PZ-37 7-PZ-37P 7-PZ-37P (FD) MAFB-044 MAFB-149 MAFB-284 MAFB-413 MAFB-424
	ACW PTI-04/16/09	ACW PTE-04/16/09 ACW PTI-04/16/09 ACW PTI-04/16/09 (FD)
USEPA 6010 ICP Metals (continued)	MAFB-133	MAFB-005 MAFB-111 MAFB-112 MAFB-129 MAFB-131 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-140 MAFB-288 MAFB-398

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-398C
		MAFB-399
		MAFB-400
		MAFB-400 (FD)
	MBS PTI-04/16/09	MAFB-013
		MAFB-202
		MAFB-439
		MBS PTE AF-04/16/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
USEPA 6020 Thallium	7-PZ-37P	7-BV-13
		7-PZ-37
		7-PZ-37P
		7-PZ-37P (FD)
		7-PZ-38P
		MAFB-044
		MAFB-149
		MAFB-284
		MAFB-413
		MAFB-424
	MAFB-133	MAFB-005
		MAFB-111
		MAFB-112
		MAFB-131
		MAFB-132
		MAFB-133
		MAFB-133 (FD)
		MAFB-136
		MAFB-288
		MAFB-398
		MAFB-398C
		MAFB-399
		MAFB-400
USEPA 6020 Thallium	MAFB-133 (continued)	MAFB-400 (FD)
		MAFB-440
		MAFB-440P
	MBS PTI-04/16/09	MBS PTE AF-04/16/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
USEPA 7196 Hexavalent Chromium	7-PZ-37P	7-BV-13
		7-PZ-37
		7-PZ-37P
		7-PZ-37P (FD)
		7-PZ-38P
	MAFB-044	MAFB-044
		MAFB-149
		MAFB-284
		MAFB-413
		MAFB-424
USEPA 7470 Mercury	7-PZ-37P	7-BV-13
		7-PZ-37

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		7-PZ-37P
		7-PZ-37P (FD)
		7-PZ-38P
		MAFB-044
		MAFB-149
		MAFB-284
		MAFB-413
		MAFB-424
	MAFB-133	MAFB-005
		MAFB-111
		MAFB-112
		MAFB-131
		MAFB-132
		MAFB-133
		MAFB-133 (FD)
		MAFB-136
		MAFB-288
		MAFB-398
		MAFB-398C
		MAFB-399
		MAFB-400
		MAFB-400 (FD)
		MAFB-440
		MAFB-440P
USEPA 7470 Mercury (continued)	MBS PTI-04/16/09	MBS PTE AF-04/16/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
USEPA 8081 Pesticides	7-PZ-37P	7-PZ-37
		7-PZ-37P
		7-PZ-37P (FD)
		MAFB-284
		MAFB-413
USEPA 8082 PCBs	7-PZ-37P	7-PZ-37
		7-PZ-37P
		7-PZ-37P (FD)
		MAFB-284
		MAFB-413
USEPA 8260 VOCs	7-EW-2	7-EW-1
		7-EW-2
		7-EW-2 (FD)
		MAFB-042
		MAFB-148
		MAFB-391
		MAFB-393
		MAFB-394
		MAFB-395
		MAFB-395 (FD)
		MAFB-396
	7-PTI-04/16/09	7-PTE-04/02/09
		7-PTE-04/16/09
		7-PTE-04/30/09
		7-PTE-05/14/09

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		7-PTE-05/28/09
		7-PTE-06/11/09
		7-PTE-06/25/09
		7-PTI-04/16/09
		7-PTI-04/16/09 (FD)
	7-PZ-37P	7-BV-01
		7-BV-02
		7-BV-02 (FD)
		7-BV-04
		7-BV-06
		7-BV-07
		7-BV-08
		7-BV-13
		7-PZ-37
		7-PZ-37P
USEPA 8260 VOCs	7-PZ-37P (continued)	7-PZ-37P (FD)
		7-PZ-38P
		MAFB-044
		MAFB-149
		MAFB-284
		MAFB-413
		MAFB-424
		MAFB-440
		MAFB-440P
	ACW AT-1	ACW AT-1
		ACW AT-1 (FD)
		ACW AT-2
		ACW EW-1
		ACW EW-2
		ACW EW-3
		ACW EW-4
		ACW EW-6R
	ACW PTI-04/16/09	ACW PTE-04/02/09
		ACW PTE-04/16/09
		ACW PTE-04/30/09
		ACW PTE-05/14/09
		ACW PTE-05/28/09
		ACW PTE-06/11/09
		ACW PTE-06/25/09
		ACW PTI-04/16/09
		ACW PTI-04/16/09 (FD)
		ACW R2
	MAFB-047	MAFB-047
		MAFB-047 (FD)
		MAFB-060
		MAFB-062
		MAFB-167
		MAFB-170
		MAFB-171
		MAFB-229
		MAFB-231
		MAFB-274
		MAFB-341
		MAFB-357D

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-357D (FD)
		MAFB-357Dd
		MAFB-357Ds
		MAFB-384B
		MAFB-384D
		MAFB-407
USEPA 8260	MAFB-047	MBS PZ-50D
VOCs	(continued)	MBS PZ-50S
	MAFB-133	MAFB-005
		MAFB-111
		MAFB-112
		MAFB-129
		MAFB-131
		MAFB-132
		MAFB-133
		MAFB-133 (FD)
		MAFB-136
		MAFB-288
		MAFB-398
		MAFB-398C
		MAFB-399
		MAFB-400
		MAFB-400 (FD)
	MAFB-194	ACW PZ-06C
		ACW PZ-07C
		ACW PZ-08C
		ACW PZ-09C
		ACW PZ-10C
		MAFB-053
		MAFB-067
		MAFB-068
		MAFB-068 (FD)
		MAFB-069
		MAFB-078
		MAFB-194
		MAFB-196
		MAFB-401
		MAFB-401 (FD)
		MAFB-402
		MAFB-403
		MAFB-408
		MAFB-453
		MAFB-453C
	MAFB-200	MAFB-200
		MAFB-200 (FD)
		MAFB-259
		MAFB-260
		MAFB-267
		MAFB-268
		MAFB-294
		MAFB-346Bd
USEPA 8260	MAFB-200	MAFB-346Bs
VOCs	(continued)	MAFB-346D
		MAFB-368B
		MAFB-381B

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-381D
		MAFB-411
		MAFB-411 (FD)
		MAFB-449Bd
		MAFB-449Bs
		MAFB-457Bd
		MAFB-457Bs
		MAFB-457Bs (FD)
	MAFB-215	MAFB-013
		MAFB-104
		MAFB-151
		MAFB-175
		MAFB-215
		MAFB-215 (FD)
		MAFB-247
		MAFB-249
		MAFB-258
		MAFB-364B
		MAFB-364D
		MAFB-365B
		MAFB-365D
		MAFB-369
		MAFB-423
		MAFB-423B
		MAFB-423B (FD)
		MAFB-441
		MAFB-458Bd
		MAFB-458Bs
	MAFB-216	MAFB-063
		MAFB-164
		MAFB-168
		MAFB-177
		MAFB-199
		MAFB-201
		MAFB-205
		MAFB-216
		MAFB-216 (FD)
		MAFB-220
		MAFB-227
		MAFB-230
		MAFB-235
		MAFB-239
USEPA 8260 VOCs	MAFB-216 (continued)	MAFB-240
		MAFB-266
		MAFB-359
		MAFB-361
		MBS PZ-55B
		MBS PZ-55Bu
	MAFB-265	MAFB-261
		MAFB-263
		MAFB-265
		MAFB-265 (FD)
		MAFB-269
		MAFB-311
		MAFB-312

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-318
		MAFB-332
		MAFB-351D
		MAFB-380B
		MAFB-380B (FD)
		MAFB-380D
		MAFB-382B
		MAFB-382B (FD)
		MAFB-382D
		MAFB-385D
		MAFB-412
		MAFB-437Dd
		MAFB-437Ds
	MAFB-292	MAFB-006
		MAFB-094
		MAFB-096
		MAFB-109
		MAFB-155
		MAFB-155 (FD)
		MAFB-180
		MAFB-181
		MAFB-273
		MAFB-290
		MAFB-292
		MAFB-292 (FD)
		MAFB-329
		MAFB-366B
		MAFB-366D
		MAFB-366D (FD)
		MAFB-425
		MAFB-438
		MBS PZ-38
		MBS PZ-58
USEPA 8260 VOCs (continued)	MAFB-301	ACW PZ-02
		ACW PZ-05
		MAFB-191
		MAFB-193
		MAFB-198
		MAFB-301
		MAFB-301 (FD)
		MAFB-302
		MAFB-306
		MAFB-432
		MAFB-433
		MAFB-433 (FD)
		MAFB-454
		MAFB-454C
		MAFB-455
		MAFB-456
		MAFB-456C
	MAFB-352D	MAFB-059
		MAFB-313
		MAFB-347
		MAFB-348B
		MAFB-348Dd
		MAFB-348Ds

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-352D
		MAFB-367
		MAFB-377
		MAFB-383B
		MAFB-386D
		MAFB-422
		MAFB-429Bd
		MAFB-429Bs
		MAFB-429Bs (FD)
		MAFB-429Bu
		MAFB-431Bd
		MAFB-431Dd
		MAFB-431Ds
		MAFB-450
	MAFB-368D	MAFB-270
		MAFB-293
		MAFB-331
		MAFB-353
		MAFB-354B
		MAFB-354D
		MAFB-356B
		MAFB-368D
		MAFB-368D (FD)
USEPA 8260 VOCs	MAFB-368D (continued)	MAFB-387B
		MAFB-387Dd
		MAFB-387Ds
		MAFB-388B
		MAFB-388Dd
		MAFB-388Ds
		MAFB-426
		MAFB-427
		MAFB-443
		MAFB-459D
		MAFB-459Dd
	MAFB-373D	MAFB-041
		MAFB-056
		MAFB-285
		MAFB-297
		MAFB-300
		MAFB-370
		MAFB-371C
		MAFB-371D
		MAFB-372B
		MAFB-372D
		MAFB-373C
		MAFB-373C (FD)
		MAFB-373D
		MAFB-392
		MAFB-444
		MAFB-445
		MAFB-446
		MAFB-446 (FD)
		MAFB-447
		MAFB-448
	MAFB-378D	MAFB-282

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 14 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-291
		MAFB-340
		MAFB-342
		MAFB-358B
		MAFB-358D
		MAFB-375
		MAFB-376
		MAFB-376 (FD)
		MAFB-378B
		MAFB-378B (FD)
		MAFB-378D
		MAFB-379B
		MAFB-379D
		MAFB-397
USEPA 8260 VOCs	MAFB-378D (continued)	MAFB-435
		MBS PZ-11
		MBS PZ-42D
		MBS PZ-42D (FD)
		MBS PZ-42S
	MAFB-434Bs	FFS EW15-1
		FFS EW15-2
		FFS MW15-1
		FFS MW15-2
		FFS MW15-3
		MAFB-172
		MAFB-173
		MAFB-174
		MAFB-176
		MAFB-232
		MAFB-246
		MAFB-248
		MAFB-434Bd
		MAFB-434Bs
		MAFB-434Bu
		MAFB-434Bu (FD)
		MAFB-451
		MAFB-452B
		MAFB-452Bu
		MBS PZ-37
	MBS EW-1Bu	MAFB-033
		MAFB-061
		MAFB-101
		MAFB-102
		MAFB-122
		MAFB-203
		MAFB-204
		MAFB-211
		MAFB-217
		MAFB-218
		MAFB-224
		MAFB-308
		MAFB-314
		MAFB-320
		MAFB-410
		MAFB-417
		MBS EW-1B

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 15 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MBS EW-1Bu
		MBS EW-1Bu (FD)
		MBS PZ-52
USEPA 8260 VOCs (continued)	MBS EW-3B	MAFB-123
		MAFB-159
		MAFB-202
		MAFB-207
		MAFB-212
		MAFB-251
		MAFB-296
		MAFB-344
		MAFB-374
		MAFB-420
		MBS EW2ABu
		MBS EW-2AR
		MBS EW-2B
		MBS EW-3B
		MBS EW-3B (FD)
		MBS EW-11B
		MBS EW-12B
		MBS EW-13BuB
		MBS PZ-39
		MBS PZ-53
	MBS EW-10B	MAFB-090
		MAFB-206
		MAFB-209
		MAFB-210
		MAFB-221
		MAFB-228
		MAFB-250
		MAFB-339
		MAFB-404
		MAFB-405
		MAFB-405 (FD)
		MAFB-414
		MAFB-414 (FD)
		MAFB-415
		MAFB-418
		MAFB-419
		MAFB-428
		MAFB-439
		MBS EW-10B
		MBS EW-10B (FD)
	MBS PTI-04/16/09	MBS EW-2D
		MBS EW-3Bu
		MBS EW-3D
		MBS EW4ABu
		MBS EW-4Bu
		MBS EW5ABu
USEPA 8260 VOCs	MBS PTI-04/16/09 (continued)	MBS EW-5B
		MBS EW-5D
		MBS EW-6B
		MBS EW-6D
		MBS EW-8B
		MBS PTE AF-04/02/09

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 16 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MBS PTE AF-04/16/09
		MBS PTE AF-04/30/09
		MBS PTE AF-05/14/09
		MBS PTE AF-05/28/09
		MBS PTE AF-06/11/09
		MBS PTE AF-06/25/09
		MBS PTI-04/16/09
		MBS PTI-04/16/09 (FD)
	MBS PZ-44	FFS MW15-6
		MAFB-048
		MAFB-214
		MAFB-222
		MAFB-223
		MAFB-242
		MAFB-243
		MAFB-264
		MAFB-362
		MAFB-363
		MAFB-430
		MAFB-442
		MBS PZ-12
		MBS PZ-13
		MBS PZ-14
		MBS PZ-15
		MBS PZ-44
		MBS PZ-49D
		MBS PZ-51
		MBS PZ-54
	OFB-17	OFB-06
		OFB-07
		OFB-09
		OFB-12
		OFB-17
		OFB-17 (FD)
		OFB-24
		OFB-39
		OFB-40
		OFB-43
		OFB-46
		OFB-47
USEPA 8260	OFB-17	OFB-48
VOCs	(continued)	OFB-53
		OFB-53 (FD)
		OFB-57
	OFB-69	OFB-67
		OFB-68
		OFB-69
		OFB-69 (FD)
		OFB-70
		OFB-71
		OFB-72-06/01/09
		OFB-72-06/29/09
		OFB-73
		OFB-74
		OFB-75

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 17 of 17)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		OFB-76
		OFB-77
		OFB-78
		OFB-79
		OFB-80
		OFB-81
		OFB-81 (FD)
		OFB-82
		OFB-83
	None	MBS 39ABuB
		MBS EW1ABu
		MBS EW-1D
		MBS EW-4A
		MBS EW-4B
		MBS EW-4D
		MBS EW6ABu
		MBS EW7ABu
		MBS EW-7B
		MBS EW-9B
		MBS EW-12AB
USEPA 8270 PAHs	7-PZ-37P	7-PZ-37
		7-PZ-37P
		7-PZ-37P (FD)
		MAFB-284
		MAFB-413
		MAFB-440
		MAFB-440P

Notes:
FD - Field Duplicate
ICP - Inductively Coupled Plasma
NA - Not Applicable
PAHs - Polynuclear Aromatic Hydrocarbons
PCBs - Polychlorinated Biphenyls
SM - Standard Methods
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
C090409A	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	86	63-128	yes
	1,1,2-Trichloroethane	98	75-125	yes
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	106	68-130	yes
	1,2-Dichlorobenzene	102	71-122	yes
	1,2-Dichloroethane	91	69-132	yes
	1,2-Dichloropropane	101	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	104	74-123	yes
	Benzene	99	81-122	yes
	Bromodichloromethane	98	76-121	yes
	Bromoform	86	69-128	yes
	Bromomethane	114	30-141	yes
	Carbon tetrachloride	111	66-138	yes
	Chlorobenzene	105	81-122	yes
	Chloroethane	88	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
	cis-1,3-Dichloropropene	103	69-131	yes
	Dibromochloromethane	101	66-133	yes
	Dichlorodifluoromethane	109	30-153	yes
	Ethylbenzene	102	73-127	yes
	Methylene chloride	97	63-137	yes
	Tetrachloroethene	108	66-128	yes
	Toluene	104	77-122	yes
	trans-1,2-Dichloroethene	103	63-137	yes
	trans-1,3-Dichloropropene	92	59-135	yes
	Trichloroethene	111	70-127	yes
	Trichlorofluoromethane	112	57-129	yes
	Vinyl chloride	108	50-134	yes
	Xylenes, total	105	76-128	yes
C090427A	1,1,1-Trichloroethane	96	67-132	yes
	1,1,2,2-Tetrachloroethane	89	63-128	yes
	1,1,2-Trichloroethane	101	75-125	yes
	1,1-Dichloroethane	94	69-133	yes
	1,1-Dichloroethene	98	68-130	yes
	1,2-Dichlorobenzene	104	71-122	yes
	1,2-Dichloroethane	85	69-132	yes
	1,2-Dichloropropane	103	75-125	yes
	1,3-Dichlorobenzene	103	75-124	yes
	1,4-Dichlorobenzene	108	74-123	yes
	Benzene	101	81-122	yes
C090427A (continued)	Bromodichloromethane	100	76-121	yes
	Bromoform	87	69-128	yes
	Bromomethane	96	30-141	yes
	Carbon tetrachloride	107	66-138	yes
	Chlorobenzene	107	81-122	yes
	Chloroethane	82	58-133	yes
	Chloroform	97	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	93	72-126	yes
	cis-1,3-Dichloropropene	100	69-131	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Dibromochloromethane	89	66-133	yes
	Dichlorodifluoromethane	110	30-153	yes
	Ethylbenzene	100	73-127	yes
	Methylene chloride	95	63-137	yes
	Tetrachloroethene	118	66-128	yes
	Toluene	109	77-122	yes
	trans-1,2-Dichloroethene	100	63-137	yes
	trans-1,3-Dichloropropene	92	59-135	yes
	Trichloroethene	102	70-127	yes
	Trichlorofluoromethane	105	57-129	yes
	Vinyl chloride	109	50-134	yes
	Xylenes, total	109	76-128	yes
C090428A	1,1,1-Trichloroethane	107	67-132	yes
	1,1,2,2-Tetrachloroethane	111	63-128	yes
	1,1,2-Trichloroethane	107	75-125	yes
	1,1-Dichloroethane	110	69-133	yes
	1,1-Dichloroethene	108	68-130	yes
	1,2-Dichlorobenzene	91	71-122	yes
	1,2-Dichloroethane	111	69-132	yes
	1,2-Dichloropropane	114	75-125	yes
	1,3-Dichlorobenzene	90	75-124	yes
	1,4-Dichlorobenzene	91	74-123	yes
	Benzene	105	81-122	yes
	Bromodichloromethane	119	76-121	yes
	Bromoform	88	69-128	yes
	Bromomethane	84	30-141	yes
	Carbon tetrachloride	102	66-138	yes
	Chlorobenzene	97	81-122	yes
	Chloroethane	92	58-133	yes
	Chloroform	111	69-128	yes
	Chloromethane	107	56-131	yes
	cis-1,2-Dichloroethene	110	72-126	yes
	cis-1,3-Dichloropropene	117	69-131	yes
	Dibromochloromethane	87	66-133	yes
C090428A (continued)	Dichlorodifluoromethane	116	30-153	yes
	Ethylbenzene	99	73-127	yes
	Methylene chloride	113	63-137	yes
	Tetrachloroethene	96	66-128	yes
	Toluene	105	77-122	yes
	trans-1,2-Dichloroethene	100	63-137	yes
	trans-1,3-Dichloropropene	113	59-135	yes
	Trichloroethene	100	70-127	yes
	Trichlorofluoromethane	112	57-129	yes
	Vinyl chloride	111	50-134	yes
	Xylenes, total	98	76-128	yes
C090429A	1,1,1-Trichloroethane	107	67-132	yes
	1,1,2,2-Tetrachloroethane	91	63-128	yes
	1,1,2-Trichloroethane	102	75-125	yes
	1,1-Dichloroethane	112	69-133	yes
	1,1-Dichloroethene	112	68-130	yes
	1,2-Dichlorobenzene	86	71-122	yes
	1,2-Dichloroethane	103	69-132	yes
	1,2-Dichloropropane	111	75-125	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,3-Dichlorobenzene	80	75-124	yes
	1,4-Dichlorobenzene	85	74-123	yes
	Benzene	108	81-122	yes
	Bromodichloromethane	112	76-121	yes
	Bromoform	80	69-128	yes
	Bromomethane	87	30-141	yes
	Carbon tetrachloride	107	66-138	yes
	Chlorobenzene	99	81-122	yes
	Chloroethane	105	58-133	yes
	Chloroform	112	69-128	yes
	Chloromethane	108	56-131	yes
	cis-1,2-Dichloroethene	109	72-126	yes
	cis-1,3-Dichloropropene	113	69-131	yes
	Dibromochloromethane	81	66-133	yes
	Dichlorodifluoromethane	100	30-153	yes
	Ethylbenzene	102	73-127	yes
	Methylene chloride	100	63-137	yes
	Tetrachloroethene	101	66-128	yes
	Toluene	109	77-122	yes
	trans-1,2-Dichloroethene	102	63-137	yes
	trans-1,3-Dichloropropene	103	59-135	yes
	Trichloroethene	105	70-127	yes
	Trichlorofluoromethane	105	57-129	yes
	Vinyl chloride	111	50-134	yes
	Xylenes, total	101	76-128	yes
C090528A	1,1,1-Trichloroethane	110	67-132	yes
	1,1,2,2-Tetrachloroethane	101	63-128	yes
	1,1,2-Trichloroethane	111	75-125	yes
	1,1-Dichloroethane	106	69-133	yes
	1,1-Dichloroethene	106	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	107	69-132	yes
	1,2-Dichloropropane	105	75-125	yes
	1,3-Dichlorobenzene	97	75-124	yes
	1,4-Dichlorobenzene	98	74-123	yes
	Benzene	100	81-122	yes
	Bromodichloromethane	113	76-121	yes
	Bromoform	104	69-128	yes
	Bromomethane	102	30-141	yes
	Carbon tetrachloride	107	66-138	yes
	Chlorobenzene	102	81-122	yes
	Chloroethane	100	58-133	yes
	Chloroform	109	69-128	yes
	Chloromethane	96	56-131	yes
	cis-1,2-Dichloroethene	108	72-126	yes
	cis-1,3-Dichloropropene	116	69-131	yes
	Dibromochloromethane	109	66-133	yes
	Dichlorodifluoromethane	105	30-153	yes
	Ethylbenzene	101	73-127	yes
	Methylene chloride	109	63-137	yes
	Tetrachloroethene	102	66-128	yes
	Toluene	106	77-122	yes
	trans-1,2-Dichloroethene	106	63-137	yes
	trans-1,3-Dichloropropene	114	59-135	yes
	Trichloroethene	105	70-127	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Trichlorofluoromethane	106	57-129	yes
	Vinyl chloride	120	50-134	yes
	Xylenes, total	102	76-128	yes
C090529A	1,1,1-Trichloroethane	112	67-132	yes
	1,1,2,2-Tetrachloroethane	104	63-128	yes
	1,1,2-Trichloroethane	105	75-125	yes
	1,1-Dichloroethane	112	69-133	yes
	1,1-Dichloroethene	109	68-130	yes
	1,2-Dichlorobenzene	101	71-122	yes
	1,2-Dichloroethane	106	69-132	yes
	1,2-Dichloropropane	107	75-125	yes
	1,3-Dichlorobenzene	102	75-124	yes
	1,4-Dichlorobenzene	105	74-123	yes
	Benzene	110	81-122	yes
C090529A	Bromodichloromethane	110	76-121	yes
(continued)	Bromoform	94	69-128	yes
	Bromomethane	96	30-141	yes
	Carbon tetrachloride	112	66-138	yes
	Chlorobenzene	101	81-122	yes
	Chloroethane	89	58-133	yes
	Chloroform	116	69-128	yes
	Chloromethane	95	56-131	yes
	cis-1,2-Dichloroethene	111	72-126	yes
	cis-1,3-Dichloropropene	116	69-131	yes
	Dibromochloromethane	98	66-133	yes
	Dichlorodifluoromethane	101	30-153	yes
	Ethylbenzene	103	73-127	yes
	Methylene chloride	109	63-137	yes
	Tetrachloroethene	106	66-128	yes
	Toluene	114	77-122	yes
	trans-1,2-Dichloroethene	107	63-137	yes
	trans-1,3-Dichloropropene	107	59-135	yes
	Trichloroethene	107	70-127	yes
	Trichlorofluoromethane	100	57-129	yes
	Vinyl chloride	114	50-134	yes
	Xylenes, total	105	76-128	yes
C090529B	1,1-Dichloroethene	109	68-130	yes
	1,2-Dichloroethane	120	69-132	yes
	1,2-Dichloropropane	115	75-125	yes
	1,4-Dichlorobenzene	90	74-123	yes
	Carbon tetrachloride	117	66-138	yes
	Chloroform	116	69-128	yes
	Chloromethane	99	56-131	yes
	cis-1,2-Dichloroethene	111	72-126	yes
	Tetrachloroethene	98	66-128	yes
	Trichloroethene	114	70-127	yes
	Vinyl chloride	109	50-134	yes
C090612A	1,1,1-Trichloroethane	111	67-132	yes
	1,1,2,2-Tetrachloroethane	106	63-128	yes
	1,1,2-Trichloroethane	116	75-125	yes
	1,1-Dichloroethane	109	69-133	yes
	1,1-Dichloroethene	105	68-130	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichlorobenzene	94	71-122	yes
	1,2-Dichloroethane	111	69-132	yes
	1,2-Dichloropropane	111	75-125	yes
	1,3-Dichlorobenzene	97	75-124	yes
	1,4-Dichlorobenzene	96	74-123	yes
C090612A	Benzene	105	81-122	yes
(continued)	Bromodichloromethane	116	76-121	yes
	Bromoform	104	69-128	yes
	Bromomethane	113	30-141	yes
	Carbon tetrachloride	105	66-138	yes
	Chlorobenzene	98	81-122	yes
	Chloroethane	108	58-133	yes
	Chloroform	109	69-128	yes
	Chloromethane	105	56-131	yes
	cis-1,2-Dichloroethene	110	72-126	yes
	cis-1,3-Dichloropropene	118	69-131	yes
	Dibromochloromethane	102	66-133	yes
	Dichlorodifluoromethane	100	30-153	yes
	Ethylbenzene	97	73-127	yes
	Methylene chloride	105	63-137	yes
	Tetrachloroethene	98	66-128	yes
	Toluene	111	77-122	yes
	trans-1,2-Dichloroethene	112	63-137	yes
	trans-1,3-Dichloropropene	115	59-135	yes
	Trichloroethene	107	70-127	yes
	Trichlorofluoromethane	110	57-129	yes
	Vinyl chloride	110	50-134	yes
	Xylenes, total	98	76-128	yes
C090616A	1,1-Dichloroethene	103	68-130	yes
	1,2-Dichloroethane	107	69-132	yes
	1,2-Dichloropropane	102	75-125	yes
	1,4-Dichlorobenzene	103	74-123	yes
	Carbon tetrachloride	105	66-138	yes
	Chloroform	106	69-128	yes
	Chloromethane	111	56-131	yes
	cis-1,2-Dichloroethene	107	72-126	yes
	Tetrachloroethene	102	66-128	yes
	Trichloroethene	98	70-127	yes
	Vinyl chloride	102	50-134	yes
C090617A	1,1-Dichloroethene	105	68-130	yes
	1,2-Dichloroethane	110	69-132	yes
	1,2-Dichloropropane	111	75-125	yes
	1,4-Dichlorobenzene	98	74-123	yes
	Carbon tetrachloride	103	66-138	yes
	Chloroform	107	69-128	yes
	Chloromethane	114	56-131	yes
	cis-1,2-Dichloroethene	111	72-126	yes
	Tetrachloroethene	98	66-128	yes
C090617A	Trichloroethene	100	70-127	yes
(continued)	Vinyl chloride	100	50-134	yes
C090624A	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichloroethane	98	69-132	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichloropropane	99	75-125	yes
	1,4-Dichlorobenzene	102	74-123	yes
	Carbon tetrachloride	92	66-138	yes
	Chloroform	100	69-128	yes
	Chloromethane	87	56-131	yes
	cis-1,2-Dichloroethene	101	72-126	yes
	Tetrachloroethene	100	66-128	yes
	Trichloroethene	95	70-127	yes
	Vinyl chloride	110	50-134	yes
H090603A	Trichloroethene	95	70-127	yes
M090415A	1,1-Dichloroethene	108	68-130	yes
	1,2-Dichloroethane	91	69-132	yes
	1,2-Dichloropropane	120	75-125	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Carbon tetrachloride	100	66-138	yes
	Chloroform	98	69-128	yes
	Chloromethane	104	56-131	yes
	cis-1,2-Dichloroethene	105	72-126	yes
	Tetrachloroethene	108	66-128	yes
	Trichloroethene	94	70-127	yes
	Vinyl chloride	100	50-134	yes
M090415B	1,1-Dichloroethene	108	68-130	yes
	1,2-Dichloroethane	90	69-132	yes
	1,2-Dichloropropane	106	75-125	yes
	1,4-Dichlorobenzene	96	74-123	yes
	Carbon tetrachloride	94	66-138	yes
	Chloroform	100	69-128	yes
	Chloromethane	104	56-131	yes
	cis-1,2-Dichloroethene	109	72-126	yes
	Tetrachloroethene	108	66-128	yes
	Trichloroethene	101	70-127	yes
	Vinyl chloride	107	50-134	yes
M090425B	1,1-Dichloroethene	97	68-130	yes
	1,2-Dichloroethane	90	69-132	yes
	1,2-Dichloropropane	93	75-125	yes
	1,4-Dichlorobenzene	91	74-123	yes
M090425B	Carbon tetrachloride	80	66-138	yes
(continued)	Chloroform	99	69-128	yes
	Chloromethane	93	56-131	yes
	cis-1,2-Dichloroethene	105	72-126	yes
	Tetrachloroethene	99	66-128	yes
	Trichloroethene	99	70-127	yes
	Vinyl chloride	94	50-134	yes
M090427A	1,1-Dichloroethene	88	68-130	yes
	1,2-Dichloroethane	87	69-132	yes
	1,2-Dichloropropane	96	75-125	yes
	1,4-Dichlorobenzene	86	74-123	yes
	Carbon tetrachloride	90	66-138	yes
	Chloroform	95	69-128	yes
	Chloromethane	98	56-131	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	cis-1,2-Dichloroethene	100	72-126	yes
	Tetrachloroethene	96	66-128	yes
	Trichloroethene	91	70-127	yes
	Vinyl chloride	89	50-134	yes
M090427B	1,1-Dichloroethene	105	68-130	yes
	1,2-Dichloroethane	100	69-132	yes
	1,2-Dichloropropane	105	75-125	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Carbon tetrachloride	97	66-138	yes
	Chloroform	109	69-128	yes
	Chloromethane	112	56-131	yes
	cis-1,2-Dichloroethene	116	72-126	yes
	Tetrachloroethene	104	66-128	yes
	Trichloroethene	113	70-127	yes
	Vinyl chloride	103	50-134	yes
M090428A	1,1-Dichloroethene	93	68-130	yes
	1,2-Dichloroethane	96	69-132	yes
	1,2-Dichloropropane	107	75-125	yes
	1,4-Dichlorobenzene	98	74-123	yes
	Carbon tetrachloride	98	66-138	yes
	Chloroform	104	69-128	yes
	Chloromethane	108	56-131	yes
	cis-1,2-Dichloroethene	108	72-126	yes
	Tetrachloroethene	101	66-128	yes
	Trichloroethene	98	70-127	yes
	Vinyl chloride	88	50-134	yes
M090428B	1,1-Dichloroethene	98	68-130	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	104	75-125	yes
	1,4-Dichlorobenzene	99	74-123	yes
	Carbon tetrachloride	93	66-138	yes
	Chloroform	106	69-128	yes
	Chloromethane	111	56-131	yes
	cis-1,2-Dichloroethene	112	72-126	yes
	Tetrachloroethene	103	66-128	yes
	Trichloroethene	102	70-127	yes
	Vinyl chloride	98	50-134	yes
M090429A	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichloroethane	100	69-132	yes
	1,2-Dichloropropane	109	75-125	yes
	1,4-Dichlorobenzene	99	74-123	yes
	Carbon tetrachloride	106	66-138	yes
	Chloroform	110	69-128	yes
	Chloromethane	101	56-131	yes
	cis-1,2-Dichloroethene	113	72-126	yes
	Tetrachloroethene	103	66-128	yes
	Trichloroethene	107	70-127	yes
	Vinyl chloride	88	50-134	yes
M090429B	1,1-Dichloroethene	108	68-130	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichloroethane	98	69-132	yes
	1,2-Dichloropropane	113	75-125	yes
	1,4-Dichlorobenzene	99	74-123	yes
	Carbon tetrachloride	117	66-138	yes
	Chloroform	113	69-128	yes
	Chloromethane	106	56-131	yes
	cis-1,2-Dichloroethene	118	72-126	yes
	Tetrachloroethene	110	66-128	yes
	Trichloroethene	110	70-127	yes
	Vinyl chloride	97	50-134	yes
M090430A	1,1-Dichloroethene	98	68-130	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	111	75-125	yes
	1,4-Dichlorobenzene	102	74-123	yes
	Carbon tetrachloride	112	66-138	yes
	Chloroform	107	69-128	yes
	Chloromethane	98	56-131	yes
	cis-1,2-Dichloroethene	111	72-126	yes
	Tetrachloroethene	108	66-128	yes
M090430A	Trichloroethene	101	70-127	yes
(continued)	Vinyl chloride	97	50-134	yes
M090430B	1,1-Dichloroethene	94	68-130	yes
	1,2-Dichloroethane	94	69-132	yes
	1,2-Dichloropropane	109	75-125	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Carbon tetrachloride	109	66-138	yes
	Chloroform	100	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	107	72-126	yes
	Tetrachloroethene	99	66-128	yes
	Trichloroethene	101	70-127	yes
	Vinyl chloride	90	50-134	yes
M090501A	1,1-Dichloroethene	94	68-130	yes
	1,2-Dichloroethane	101	69-132	yes
	1,2-Dichloropropane	116	75-125	yes
	1,4-Dichlorobenzene	99	74-123	yes
	Carbon tetrachloride	117	66-138	yes
	Chloroform	112	69-128	yes
	Chloromethane	107	56-131	yes
	cis-1,2-Dichloroethene	115	72-126	yes
	Tetrachloroethene	101	66-128	yes
	Trichloroethene	105	70-127	yes
	Vinyl chloride	89	50-134	yes
M090504A	1,1-Dichloroethene	92	68-130	yes
	1,2-Dichloroethane	80	69-132	yes
	1,2-Dichloropropane	98	75-125	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Carbon tetrachloride	82	66-138	yes
	Chloroform	96	69-128	yes
	Chloromethane	96	56-131	yes
	cis-1,2-Dichloroethene	106	72-126	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Tetrachloroethene	100	66-128	yes
	Trichloroethene	95	70-127	yes
	Vinyl chloride	95	50-134	yes
M090505B	1,1-Dichloroethene	91	68-130	yes
	1,2-Dichloroethane	102	69-132	yes
	1,2-Dichloropropane	97	75-125	yes
	1,4-Dichlorobenzene	83	74-123	yes
	Carbon tetrachloride	100	66-138	yes
	Chloroform	103	69-128	yes
M090505B	Chloromethane	90	56-131	yes
(continued)	cis-1,2-Dichloroethene	109	72-126	yes
	Tetrachloroethene	86	66-128	yes
	Trichloroethene	94	70-127	yes
	Vinyl chloride	100	50-134	yes
M090506A	1,1-Dichloroethene	87	68-130	yes
	1,2-Dichloroethane	94	69-132	yes
	1,2-Dichloropropane	94	75-125	yes
	1,4-Dichlorobenzene	90	74-123	yes
	Carbon tetrachloride	106	66-138	yes
	Chloroform	98	69-128	yes
	Chloromethane	86	56-131	yes
	cis-1,2-Dichloroethene	102	72-126	yes
	Tetrachloroethene	95	66-128	yes
	Trichloroethene	88	70-127	yes
	Vinyl chloride	92	50-134	yes
M090507A	1,1-Dichloroethene	82	68-130	yes
	1,2-Dichloroethane	90	69-132	yes
	1,2-Dichloropropane	97	75-125	yes
	1,4-Dichlorobenzene	85	74-123	yes
	Carbon tetrachloride	100	66-138	yes
	Chloroform	92	69-128	yes
	Chloromethane	83	56-131	yes
	cis-1,2-Dichloroethene	95	72-126	yes
	Tetrachloroethene	88	66-128	yes
	Trichloroethene	84	70-127	yes
	Vinyl chloride	90	50-134	yes
M090508A	1,1-Dichloroethene	91	68-130	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	94	75-125	yes
	1,4-Dichlorobenzene	90	74-123	yes
	Carbon tetrachloride	109	66-138	yes
	Chloroform	100	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	105	72-126	yes
	Tetrachloroethene	97	66-128	yes
	Trichloroethene	93	70-127	yes
	Vinyl chloride	96	50-134	yes
M090508B	1,1-Dichloroethene	92	68-130	yes
	1,2-Dichloroethane	96	69-132	yes
	1,2-Dichloropropane	100	75-125	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
M090508B (continued)	1,4-Dichlorobenzene	92	74-123	yes
	Carbon tetrachloride	109	66-138	yes
	Chloroform	100	69-128	yes
	Chloromethane	92	56-131	yes
	cis-1,2-Dichloroethene	105	72-126	yes
	Tetrachloroethene	96	66-128	yes
	Trichloroethene	100	70-127	yes
	Vinyl chloride	100	50-134	yes
M090511A	1,1-Dichloroethene	89	68-130	yes
	1,2-Dichloroethane	88	69-132	yes
	1,2-Dichloropropane	92	75-125	yes
	1,4-Dichlorobenzene	82	74-123	yes
	Carbon tetrachloride	113	66-138	yes
	Chloroform	94	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	95	72-126	yes
	Tetrachloroethene	93	66-128	yes
	Trichloroethene	89	70-127	yes
	Vinyl chloride	100	50-134	yes
M090512A	1,1-Dichloroethene	93	68-130	yes
	1,2-Dichloroethane	82	69-132	yes
	1,2-Dichloropropane	98	75-125	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Carbon tetrachloride	91	66-138	yes
	Chloroform	97	69-128	yes
	Chloromethane	83	56-131	yes
	cis-1,2-Dichloroethene	94	72-126	yes
	Tetrachloroethene	100	66-128	yes
	Trichloroethene	92	70-127	yes
	Vinyl chloride	112	50-134	yes
M090512B	1,1-Dichloroethene	88	68-130	yes
	1,2-Dichloroethane	87	69-132	yes
	1,2-Dichloropropane	96	75-125	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Carbon tetrachloride	88	66-138	yes
	Chloroform	98	69-128	yes
	Chloromethane	91	56-131	yes
	cis-1,2-Dichloroethene	95	72-126	yes
	Tetrachloroethene	95	66-128	yes
	Trichloroethene	96	70-127	yes
	Vinyl chloride	106	50-134	yes
M090513A	1,1-Dichloroethene	87	68-130	yes
	1,2-Dichloroethane	84	69-132	yes
	1,2-Dichloropropane	94	75-125	yes
	1,4-Dichlorobenzene	91	74-123	yes
	Carbon tetrachloride	99	66-138	yes
	Chloroform	95	69-128	yes
	Chloromethane	81	56-131	yes
	cis-1,2-Dichloroethene	95	72-126	yes
	Tetrachloroethene	98	66-128	yes
	Trichloroethene	91	70-127	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Vinyl chloride	110	50-134	yes
M090515A	1,1,1-Trichloroethane	96	67-132	yes
	1,1,2,2-Tetrachloroethane	94	63-128	yes
	1,1,2-Trichloroethane	100	75-125	yes
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	93	68-130	yes
	1,2-Dichlorobenzene	95	71-122	yes
	1,2-Dichloroethane	88	69-132	yes
	1,2-Dichloropropane	91	75-125	yes
	1,3-Dichlorobenzene	94	75-124	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Benzene	94	81-122	yes
	Bromodichloromethane	92	76-121	yes
	Bromoform	87	69-128	yes
	Bromomethane	101	30-141	yes
	Carbon tetrachloride	87	66-138	yes
	Chlorobenzene	95	81-122	yes
	Chloroethane	85	58-133	yes
	Chloroform	96	69-128	yes
	Chloromethane	89	56-131	yes
	cis-1,2-Dichloroethene	96	72-126	yes
	cis-1,3-Dichloropropene	81	69-131	yes
	Dibromochloromethane	93	66-133	yes
	Dichlorodifluoromethane	98	30-153	yes
	Ethylbenzene	94	73-127	yes
	Methylene chloride	85	63-137	yes
	Tetrachloroethene	95	66-128	yes
	Toluene	94	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	80	59-135	yes
	Trichloroethene	95	70-127	yes
	Trichlorofluoromethane	108	57-129	yes
	Vinyl chloride	104	50-134	yes
	Xylenes, total	96	76-128	yes
M090521A	1,1-Dichloroethene	92	68-130	yes
	1,2-Dichloroethane	80	69-132	yes
	1,2-Dichloropropane	89	75-125	yes
	1,4-Dichlorobenzene	102	74-123	yes
	Carbon tetrachloride	82	66-138	yes
	Chloroform	92	69-128	yes
	Chloromethane	90	56-131	yes
	cis-1,2-Dichloroethene	86	72-126	yes
	Tetrachloroethene	99	66-128	yes
	Trichloroethene	91	70-127	yes
	Vinyl chloride	110	50-134	yes
M090601A	Tetrachloroethene	99	66-128	yes
M090604A	1,1-Dichloroethene	97	68-130	yes
	1,2-Dichloroethane	81	69-132	yes
	1,2-Dichloropropane	93	75-125	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Carbon tetrachloride	101	66-138	yes
	Chloroform	91	69-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Chloromethane	97	56-131	yes
	cis-1,2-Dichloroethene	93	72-126	yes
	Tetrachloroethene	85	66-128	yes
	Trichloroethene	90	70-127	yes
	Vinyl chloride	103	50-134	yes
M090604N	1,1-Dichloroethene	104	68-130	yes
	1,2-Dichloroethane	106	69-132	yes
	1,2-Dichloropropane	97	75-125	yes
	1,4-Dichlorobenzene	90	74-123	yes
	Carbon tetrachloride	98	66-138	yes
	Chloroform	107	69-128	yes
	Chloromethane	110	56-131	yes
	cis-1,2-Dichloroethene	99	72-126	yes
	Tetrachloroethene	92	66-128	yes
	Trichloroethene	95	70-127	yes
	Vinyl chloride	105	50-134	yes
M090605A	1,1-Dichloroethene	102	68-130	yes
	1,2-Dichloroethane	83	69-132	yes
	1,2-Dichloropropane	103	75-125	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Carbon tetrachloride	104	66-138	yes
	Chloroform	101	69-128	yes
	Chloromethane	93	56-131	yes
M090605A	cis-1,2-Dichloroethene	100	72-126	yes
(continued)	Tetrachloroethene	88	66-128	yes
	Trichloroethene	100	70-127	yes
	Vinyl chloride	91	50-134	yes
N090427A	1,1,1-Trichloroethane	94	67-132	yes
	1,1,2,2-Tetrachloroethane	104	63-128	yes
	1,1,2-Trichloroethane	89	75-125	yes
	1,1-Dichloroethane	94	69-133	yes
	1,1-Dichloroethene	91	68-130	yes
	1,2-Dichlorobenzene	97	71-122	yes
	1,2-Dichloroethane	88	69-132	yes
	1,2-Dichloropropane	91	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	93	74-123	yes
	Benzene	93	81-122	yes
	Bromodichloromethane	100	76-121	yes
	Bromoform	96	69-128	yes
	Bromomethane	113	30-141	yes
	Carbon tetrachloride	90	66-138	yes
	Chlorobenzene	91	81-122	yes
	Chloroethane	95	58-133	yes
	Chloroform	88	69-128	yes
	Chloromethane	90	56-131	yes
	cis-1,2-Dichloroethene	87	72-126	yes
	cis-1,3-Dichloropropene	81	69-131	yes
	Dibromochloromethane	92	66-133	yes
	Dichlorodifluoromethane	101	30-153	yes
	Ethylbenzene	96	73-127	yes
	Methylene chloride	108	63-137	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Tetrachloroethene	88	66-128	yes
	Toluene	96	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	80	59-135	yes
	Trichloroethene	96	70-127	yes
	Trichlorofluoromethane	94	57-129	yes
	Vinyl chloride	101	50-134	yes
	Xylenes, total	91	76-128	yes
N090430A	1,1,1-Trichloroethane	102	67-132	yes
	1,1,2,2-Tetrachloroethane	82	63-128	yes
	1,1,2-Trichloroethane	97	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	95	68-130	yes
	1,2-Dichlorobenzene	94	71-122	yes
N090430A	1,2-Dichloroethane	84	69-132	yes
(continued)	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	93	74-123	yes
	Benzene	105	81-122	yes
	Bromodichloromethane	101	76-121	yes
	Bromoform	91	69-128	yes
	Bromomethane	117	30-141	yes
	Carbon tetrachloride	105	66-138	yes
	Chlorobenzene	93	81-122	yes
	Chloroethane	110	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	102	72-126	yes
	cis-1,3-Dichloropropene	92	69-131	yes
	Dibromochloromethane	96	66-133	yes
	Dichlorodifluoromethane	98	30-153	yes
	Ethylbenzene	96	73-127	yes
	Methylene chloride	103	63-137	yes
	Tetrachloroethene	96	66-128	yes
	Toluene	102	77-122	yes
	trans-1,2-Dichloroethene	116	63-137	yes
	trans-1,3-Dichloropropene	84	59-135	yes
	Trichloroethene	110	70-127	yes
	Trichlorofluoromethane	106	57-129	yes
	Vinyl chloride	112	50-134	yes
	Xylenes, total	96	76-128	yes
N090505A	1,1,1-Trichloroethane	89	67-132	yes
	1,1,2,2-Tetrachloroethane	98	63-128	yes
	1,1,2-Trichloroethane	97	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	98	68-130	yes
	1,2-Dichlorobenzene	97	71-122	yes
	1,2-Dichloroethane	92	69-132	yes
	1,2-Dichloropropane	95	75-125	yes
	1,3-Dichlorobenzene	95	75-124	yes
	1,4-Dichlorobenzene	94	74-123	yes
	Benzene	94	81-122	yes
	Bromodichloromethane	105	76-121	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 14 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromoform	88	69-128	yes
	Bromomethane	96	30-141	yes
	Carbon tetrachloride	90	66-138	yes
	Chlorobenzene	87	81-122	yes
	Chloroethane	105	58-133	yes
N090505A	Chloroform	97	69-128	yes
(continued)	Chloromethane	82	56-131	yes
	cis-1,2-Dichloroethene	95	72-126	yes
	cis-1,3-Dichloropropene	96	69-131	yes
	Dibromochloromethane	87	66-133	yes
	Dichlorodifluoromethane	101	30-153	yes
	Ethylbenzene	91	73-127	yes
	Methylene chloride	102	63-137	yes
	Tetrachloroethene	85	66-128	yes
	Toluene	95	77-122	yes
	trans-1,2-Dichloroethene	97	63-137	yes
	trans-1,3-Dichloropropene	92	59-135	yes
	Trichloroethene	98	70-127	yes
	Trichlorofluoromethane	102	57-129	yes
	Vinyl chloride	98	50-134	yes
	Xylenes, total	86	76-128	yes
N090505B	1,1,1-Trichloroethane	89	67-132	yes
	1,1,2,2-Tetrachloroethane	98	63-128	yes
	1,1,2-Trichloroethane	100	75-125	yes
	1,1-Dichloroethane	101	69-133	yes
	1,1-Dichloroethene	84	68-130	yes
	1,2-Dichlorobenzene	98	71-122	yes
	1,2-Dichloroethane	96	69-132	yes
	1,2-Dichloropropane	92	75-125	yes
	1,3-Dichlorobenzene	97	75-124	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Benzene	96	81-122	yes
	Bromodichloromethane	105	76-121	yes
	Bromoform	86	69-128	yes
	Bromomethane	101	30-141	yes
	Carbon tetrachloride	99	66-138	yes
	Chlorobenzene	91	81-122	yes
	Chloroethane	103	58-133	yes
	Chloroform	98	69-128	yes
	Chloromethane	114	56-131	yes
	cis-1,2-Dichloroethene	94	72-126	yes
	cis-1,3-Dichloropropene	92	69-131	yes
	Dibromochloromethane	87	66-133	yes
	Dichlorodifluoromethane	96	30-153	yes
	Ethylbenzene	92	73-127	yes
	Methylene chloride	105	63-137	yes
	Tetrachloroethene	90	66-128	yes
	Toluene	96	77-122	yes
	trans-1,2-Dichloroethene	102	63-137	yes
N090505B	trans-1,3-Dichloropropene	86	59-135	yes
(continued)	Trichloroethene	97	70-127	yes
	Trichlorofluoromethane	101	57-129	yes
	Vinyl chloride	110	50-134	yes
	Xylenes, total	88	76-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 15 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
N090506A	1,1-Dichloroethene	93	68-130	yes
	1,2-Dichloroethane	103	69-132	yes
	1,2-Dichloropropane	95	75-125	yes
	1,4-Dichlorobenzene	94	74-123	yes
	Carbon tetrachloride	93	66-138	yes
	Chloroform	106	69-128	yes
	Chloromethane	111	56-131	yes
	cis-1,2-Dichloroethene	97	72-126	yes
	Tetrachloroethene	99	66-128	yes
	Trichloroethene	104	70-127	yes
	Vinyl chloride	104	50-134	yes
N090507A	1,1,1-Trichloroethane	91	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	101	75-125	yes
	1,1-Dichloroethane	105	69-133	yes
	1,1-Dichloroethene	91	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	100	69-132	yes
	1,2-Dichloropropane	94	75-125	yes
	1,3-Dichlorobenzene	97	75-124	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Benzene	102	81-122	yes
	Bromodichloromethane	107	76-121	yes
	Bromoform	95	69-128	yes
	Bromomethane	99	30-141	yes
	Carbon tetrachloride	97	66-138	yes
	Chlorobenzene	102	81-122	yes
	Chloroethane	113	58-133	yes
	Chloroform	104	69-128	yes
	Chloromethane	112	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
	cis-1,3-Dichloropropene	88	69-131	yes
	Dibromochloromethane	95	66-133	yes
	Dichlorodifluoromethane	90	30-153	yes
	Ethylbenzene	104	73-127	yes
	Methylene chloride	104	63-137	yes
	Tetrachloroethene	103	66-128	yes
	Toluene	99	77-122	yes
N090507A (continued)	trans-1,2-Dichloroethene	104	63-137	yes
	trans-1,3-Dichloropropene	84	59-135	yes
	Trichloroethene	106	70-127	yes
	Trichlorofluoromethane	100	57-129	yes
	Vinyl chloride	87	50-134	yes
	Xylenes, total	101	76-128	yes
N090515A	1,1-Dichloroethene	92	68-130	yes
	1,2-Dichloroethane	85	69-132	yes
	1,2-Dichloropropane	115	75-125	yes
	1,4-Dichlorobenzene	92	74-123	yes
	Carbon tetrachloride	92	66-138	yes
	Chloroform	100	69-128	yes
	Chloromethane	107	56-131	yes
	cis-1,2-Dichloroethene	104	72-126	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 16 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Tetrachloroethene	90	66-128	yes
	Trichloroethene	100	70-127	yes
	Vinyl chloride	101	50-134	yes
N090515B	1,1-Dichloroethene	87	68-130	yes
	1,2-Dichloroethane	86	69-132	yes
	1,2-Dichloropropane	81	75-125	yes
	1,4-Dichlorobenzene	90	74-123	yes
	Carbon tetrachloride	81	66-138	yes
	Chloroform	94	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	97	72-126	yes
	Tetrachloroethene	92	66-128	yes
	Trichloroethene	90	70-127	yes
	Vinyl chloride	92	50-134	yes
N090519A	1,1-Dichloroethene	89	68-130	yes
	1,2-Dichloroethane	88	69-132	yes
	1,2-Dichloropropane	101	75-125	yes
	1,4-Dichlorobenzene	81	74-123	yes
	Carbon tetrachloride	101	66-138	yes
	Chloroform	92	69-128	yes
	Chloromethane	104	56-131	yes
	cis-1,2-Dichloroethene	97	72-126	yes
	Tetrachloroethene	83	66-128	yes
	Trichloroethene	89	70-127	yes
	Vinyl chloride	89	50-134	yes
N090526A	1,1-Dichloroethene	100	68-130	yes
	1,2-Dichloroethane	93	69-132	yes
N090526A	1,2-Dichloropropane	98	75-125	yes
(continued)	1,4-Dichlorobenzene	93	74-123	yes
	Carbon tetrachloride	114	66-138	yes
	Chloroform	94	69-128	yes
	Chloromethane	92	56-131	yes
	cis-1,2-Dichloroethene	94	72-126	yes
	Tetrachloroethene	91	66-128	yes
	Trichloroethene	96	70-127	yes
	Vinyl chloride	105	50-134	yes
N090603A	1,1-Dichloroethene	113	68-130	yes
	1,2-Dichloroethane	101	69-132	yes
	1,2-Dichloropropane	107	75-125	yes
	1,4-Dichlorobenzene	94	74-123	yes
	Carbon tetrachloride	101	66-138	yes
	Chloroform	105	69-128	yes
	Chloromethane	109	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
	Tetrachloroethene	103	66-128	yes
	Trichloroethene	100	70-127	yes
	Vinyl chloride	110	50-134	yes
S090414A	1,1,1-Trichloroethane	101	67-132	yes
	1,1,2,2-Tetrachloroethane	90	63-128	yes
	1,1,2-Trichloroethane	96	75-125	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 17 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	105	71-122	yes
	1,2-Dichloroethane	96	69-132	yes
	1,2-Dichloropropane	97	75-125	yes
	1,3-Dichlorobenzene	105	75-124	yes
	1,4-Dichlorobenzene	104	74-123	yes
	Benzene	99	81-122	yes
	Bromodichloromethane	97	76-121	yes
	Bromoform	90	69-128	yes
	Bromomethane	110	30-141	yes
	Carbon tetrachloride	95	66-138	yes
	Chlorobenzene	98	81-122	yes
	Chloroethane	98	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	92	56-131	yes
	cis-1,2-Dichloroethene	97	72-126	yes
	cis-1,3-Dichloropropene	93	69-131	yes
	Dibromochloromethane	92	66-133	yes
	Dichlorodifluoromethane	118	30-153	yes
S090414A	Ethylbenzene	98	73-127	yes
(continued)	Methylene chloride	114	63-137	yes
	Tetrachloroethene	101	66-128	yes
	Toluene	100	77-122	yes
	trans-1,2-Dichloroethene	99	63-137	yes
	trans-1,3-Dichloropropene	94	59-135	yes
	Trichloroethene	104	70-127	yes
	Trichlorofluoromethane	106	57-129	yes
	Vinyl chloride	94	50-134	yes
	Xylenes, total	99	76-128	yes
S090501B	1,1,1-Trichloroethane	112	67-132	yes
	1,1,2,2-Tetrachloroethane	83	63-128	yes
	1,1,2-Trichloroethane	94	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	104	68-130	yes
	1,2-Dichlorobenzene	98	71-122	yes
	1,2-Dichloroethane	111	69-132	yes
	1,2-Dichloropropane	106	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	103	74-123	yes
	Benzene	95	81-122	yes
	Bromodichloromethane	107	76-121	yes
	Bromoform	82	69-128	yes
	Bromomethane	85	30-141	yes
	Carbon tetrachloride	110	66-138	yes
	Chlorobenzene	98	81-122	yes
	Chloroethane	102	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	86	56-131	yes
	cis-1,2-Dichloroethene	94	72-126	yes
	cis-1,3-Dichloropropene	97	69-131	yes
	Dibromochloromethane	96	66-133	yes
	Dichlorodifluoromethane	84	30-153	yes
	Ethylbenzene	96	73-127	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 18 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Methylene chloride	102	63-137	yes
	Tetrachloroethene	98	66-128	yes
	Toluene	100	77-122	yes
	trans-1,2-Dichloroethene	99	63-137	yes
	trans-1,3-Dichloropropene	95	59-135	yes
	Trichloroethene	106	70-127	yes
	Trichlorofluoromethane	107	57-129	yes
	Vinyl chloride	104	50-134	yes
	Xylenes, total	98	76-128	yes
S090506A	1,1,1-Trichloroethane	114	67-132	yes
	1,1,2,2-Tetrachloroethane	103	63-128	yes
	1,1,2-Trichloroethane	100	75-125	yes
	1,1-Dichloroethane	102	69-133	yes
	1,1-Dichloroethene	93	68-130	yes
	1,2-Dichlorobenzene	103	71-122	yes
	1,2-Dichloroethane	110	69-132	yes
	1,2-Dichloropropane	96	75-125	yes
	1,3-Dichlorobenzene	98	75-124	yes
	1,4-Dichlorobenzene	101	74-123	yes
	Benzene	96	81-122	yes
S090506A	Bromodichloromethane	102	76-121	yes
(continued)	Bromoform	81	69-128	yes
	Bromomethane	90	30-141	yes
	Carbon tetrachloride	113	66-138	yes
	Chlorobenzene	93	81-122	yes
	Chloroethane	115	58-133	yes
	Chloroform	101	69-128	yes
	Chloromethane	98	56-131	yes
	cis-1,2-Dichloroethene	91	72-126	yes
	cis-1,3-Dichloropropene	97	69-131	yes
	Dibromochloromethane	92	66-133	yes
	Dichlorodifluoromethane	99	30-153	yes
	Ethylbenzene	90	73-127	yes
	Methylene chloride	101	63-137	yes
	Tetrachloroethene	87	66-128	yes
	Toluene	100	77-122	yes
	trans-1,2-Dichloroethene	98	63-137	yes
	trans-1,3-Dichloropropene	106	59-135	yes
	Trichloroethene	98	70-127	yes
	Trichlorofluoromethane	108	57-129	yes
	Vinyl chloride	109	50-134	yes
	Xylenes, total	90	76-128	yes
S090507A	1,1-Dichloroethene	95	68-130	yes
	1,2-Dichloroethane	111	69-132	yes
	1,2-Dichloropropane	91	75-125	yes
	1,4-Dichlorobenzene	98	74-123	yes
	Carbon tetrachloride	99	66-138	yes
	Chloroform	99	69-128	yes
	Chloromethane	97	56-131	yes
	cis-1,2-Dichloroethene	86	72-126	yes
	Tetrachloroethene	96	66-128	yes
	Trichloroethene	94	70-127	yes
	Vinyl chloride	97	50-134	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 19 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
S090518A	1,1,1-Trichloroethane	93	67-132	yes
	1,1,2,2-Tetrachloroethane	91	63-128	yes
	1,1,2-Trichloroethane	102	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	92	71-122	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	90	75-124	yes
	1,4-Dichlorobenzene	83	74-123	yes
S090518A	Benzene	109	81-122	yes
(continued)	Bromodichloromethane	99	76-121	yes
	Bromoform	102	69-128	yes
	Bromomethane	107	30-141	yes
	Carbon tetrachloride	109	66-138	yes
	Chlorobenzene	95	81-122	yes
	Chloroethane	101	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	95	56-131	yes
	cis-1,2-Dichloroethene	98	72-126	yes
	cis-1,3-Dichloropropene	100	69-131	yes
	Dibromochloromethane	104	66-133	yes
	Dichlorodifluoromethane	106	30-153	yes
	Ethylbenzene	95	73-127	yes
	Methylene chloride	96	63-137	yes
	Tetrachloroethene	98	66-128	yes
	Toluene	102	77-122	yes
	trans-1,2-Dichloroethene	109	63-137	yes
	trans-1,3-Dichloropropene	96	59-135	yes
	Trichloroethene	99	70-127	yes
	Trichlorofluoromethane	108	57-129	yes
	Vinyl chloride	106	50-134	yes
	Xylenes, total	95	76-128	yes
S090519A	1,1,1-Trichloroethane	97	67-132	yes
	1,1,2,2-Tetrachloroethane	90	63-128	yes
	1,1,2-Trichloroethane	99	75-125	yes
	1,1-Dichloroethane	92	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	93	71-122	yes
	1,2-Dichloroethane	94	69-132	yes
	1,2-Dichloropropane	95	75-125	yes
	1,3-Dichlorobenzene	94	75-124	yes
	1,4-Dichlorobenzene	91	74-123	yes
	Benzene	98	81-122	yes
S090519A	Bromodichloromethane	93	76-121	yes
(continued)	Bromoform	97	69-128	yes
	Bromomethane	86	30-141	yes
	Carbon tetrachloride	102	66-138	yes
	Chlorobenzene	96	81-122	yes
	Chloroethane	107	58-133	yes
	Chloroform	96	69-128	yes
	Chloromethane	89	56-131	yes
	cis-1,2-Dichloroethene	93	72-126	yes
	cis-1,3-Dichloropropene	95	69-131	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 20 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Dibromochloromethane	98	66-133	yes
	Dichlorodifluoromethane	105	30-153	yes
	Ethylbenzene	96	73-127	yes
	Methylene chloride	91	63-137	yes
	Tetrachloroethene	98	66-128	yes
	Toluene	96	77-122	yes
	trans-1,2-Dichloroethene	100	63-137	yes
	trans-1,3-Dichloropropene	94	59-135	yes
	Trichloroethene	92	70-127	yes
	Trichlorofluoromethane	105	57-129	yes
	Vinyl chloride	112	50-134	yes
	Xylenes, total	96	76-128	yes
S090520B	1,1,1-Trichloroethane	100	67-132	yes
	1,1,2,2-Tetrachloroethane	82	63-128	yes
	1,1,2-Trichloroethane	92	75-125	yes
	1,1-Dichloroethane	96	69-133	yes
	1,1-Dichloroethene	99	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	94	69-132	yes
	1,2-Dichloropropane	97	75-125	yes
	1,3-Dichlorobenzene	99	75-124	yes
	1,4-Dichlorobenzene	81	74-123	yes
	Benzene	96	81-122	yes
	Bromodichloromethane	94	76-121	yes
	Bromoform	89	69-128	yes
	Bromomethane	90	30-141	yes
	Carbon tetrachloride	110	66-138	yes
	Chlorobenzene	95	81-122	yes
	Chloroethane	94	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	87	56-131	yes
	cis-1,2-Dichloroethene	95	72-126	yes
	cis-1,3-Dichloropropene	90	69-131	yes
	Dibromochloromethane	98	66-133	yes
S090520B	Dichlorodifluoromethane	90	30-153	yes
(continued)	Ethylbenzene	93	73-127	yes
	Methylene chloride	89	63-137	yes
	Tetrachloroethene	101	66-128	yes
	Toluene	98	77-122	yes
	trans-1,2-Dichloroethene	99	63-137	yes
	trans-1,3-Dichloropropene	89	59-135	yes
	Trichloroethene	97	70-127	yes
	Trichlorofluoromethane	105	57-129	yes
	Vinyl chloride	114	50-134	yes
	Xylenes, total	97	76-128	yes
S090521A	1,1-Dichloroethene	92	68-130	yes
	1,2-Dichloroethane	89	69-132	yes
	1,2-Dichloropropane	91	75-125	yes
	1,4-Dichlorobenzene	84	74-123	yes
	Carbon tetrachloride	101	66-138	yes
	Chloroform	92	69-128	yes
	Chloromethane	99	56-131	yes
	cis-1,2-Dichloroethene	90	72-126	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 21 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Tetrachloroethene	98	66-128	yes
	Trichloroethene	88	70-127	yes
	Vinyl chloride	114	50-134	yes
S090522A	1,1,1-Trichloroethane	96	67-132	yes
	1,1,2,2-Tetrachloroethane	92	63-128	yes
	1,1,2-Trichloroethane	97	75-125	yes
	1,1-Dichloroethane	91	69-133	yes
	1,1-Dichloroethene	96	68-130	yes
	1,2-Dichlorobenzene	94	71-122	yes
	1,2-Dichloroethane	94	69-132	yes
	1,2-Dichloropropane	92	75-125	yes
	1,3-Dichlorobenzene	95	75-124	yes
	1,4-Dichlorobenzene	83	74-123	yes
	Benzene	92	81-122	yes
	Bromodichloromethane	95	76-121	yes
	Bromoform	103	69-128	yes
	Bromomethane	87	30-141	yes
	Carbon tetrachloride	103	66-138	yes
	Chlorobenzene	95	81-122	yes
	Chloroethane	90	58-133	yes
	Chloroform	92	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	91	72-126	yes
	cis-1,3-Dichloropropene	93	69-131	yes
S090522A	Dibromochloromethane	105	66-133	yes
(continued)	Dichlorodifluoromethane	101	30-153	yes
	Ethylbenzene	100	73-127	yes
	Methylene chloride	88	63-137	yes
	Tetrachloroethene	94	66-128	yes
	Toluene	93	77-122	yes
	trans-1,2-Dichloroethene	98	63-137	yes
	trans-1,3-Dichloropropene	91	59-135	yes
	Trichloroethene	87	70-127	yes
	Trichlorofluoromethane	103	57-129	yes
	Vinyl chloride	105	50-134	yes
	Xylenes, total	98	76-128	yes
S090522B	1,1-Dichloroethene	100	68-130	yes
	1,2-Dichloroethane	103	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,4-Dichlorobenzene	87	74-123	yes
	Carbon tetrachloride	100	66-138	yes
	Chloroform	102	69-128	yes
	Chloromethane	89	56-131	yes
	cis-1,2-Dichloroethene	97	72-126	yes
	Tetrachloroethene	99	66-128	yes
	Trichloroethene	102	70-127	yes
	Vinyl chloride	116	50-134	yes
S090602A	1,1,1-Trichloroethane	103	67-132	yes
	1,1,2,2-Tetrachloroethane	104	63-128	yes
	1,1,2-Trichloroethane	105	75-125	yes
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	102	68-130	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 22 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichlorobenzene	97	71-122	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	99	75-124	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Benzene	97	81-122	yes
	Bromodichloromethane	94	76-121	yes
	Bromoform	103	69-128	yes
	Bromomethane	101	30-141	yes
	Carbon tetrachloride	94	66-138	yes
	Chlorobenzene	96	81-122	yes
	Chloroethane	107	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	86	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
S090602A	cis-1,3-Dichloropropene	99	69-131	yes
(continued)	Dibromochloromethane	99	66-133	yes
	Dichlorodifluoromethane	116	30-153	yes
	Ethylbenzene	90	73-127	yes
	Methylene chloride	96	63-137	yes
	Tetrachloroethene	95	66-128	yes
	Toluene	97	77-122	yes
	trans-1,2-Dichloroethene	101	63-137	yes
	trans-1,3-Dichloropropene	102	59-135	yes
	Trichloroethene	94	70-127	yes
	Trichlorofluoromethane	109	57-129	yes
	Vinyl chloride	102	50-134	yes
	Xylenes, total	97	76-128	yes
S090602B	1,1-Dichloroethene	107	68-130	yes
	1,2-Dichloroethane	108	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Carbon tetrachloride	95	66-138	yes
	Chloroform	104	69-128	yes
	Chloromethane	94	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
	Tetrachloroethene	97	66-128	yes
	Trichloroethene	115	70-127	yes
	Vinyl chloride	102	50-134	yes
S090603B	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	114	63-128	yes
	1,1,2-Trichloroethane	108	75-125	yes
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	100	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	100	69-132	yes
	1,2-Dichloropropane	96	75-125	yes
	1,3-Dichlorobenzene	97	75-124	yes
	1,4-Dichlorobenzene	86	74-123	yes
	Benzene	96	81-122	yes
	Bromodichloromethane	98	76-121	yes
	Bromoform	111	69-128	yes
	Bromomethane	92	30-141	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 23 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Carbon tetrachloride	96	66-138	yes
	Chlorobenzene	93	81-122	yes
	Chloroethane	103	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	103	56-131	yes
S090603B	cis-1,2-Dichloroethene	99	72-126	yes
(continued)	cis-1,3-Dichloropropene	99	69-131	yes
	Dibromochloromethane	107	66-133	yes
	Dichlorodifluoromethane	123	30-153	yes
	Ethylbenzene	95	73-127	yes
	Methylene chloride	94	63-137	yes
	Tetrachloroethene	94	66-128	yes
	Toluene	93	77-122	yes
	trans-1,2-Dichloroethene	100	63-137	yes
	trans-1,3-Dichloropropene	108	59-135	yes
	Trichloroethene	101	70-127	yes
	Trichlorofluoromethane	116	57-129	yes
	Vinyl chloride	92	50-134	yes
	Xylenes, total	95	76-128	yes
S090629A	1,1,1-Trichloroethane	101	67-132	yes
	1,1,2,2-Tetrachloroethane	86	63-128	yes
	1,1,2-Trichloroethane	94	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	102	68-130	yes
	1,2-Dichlorobenzene	98	71-122	yes
	1,2-Dichloroethane	94	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	99	75-124	yes
	1,4-Dichlorobenzene	98	74-123	yes
	Benzene	102	81-122	yes
	Bromodichloromethane	98	76-121	yes
	Bromoform	97	69-128	yes
	Bromomethane	103	30-141	yes
	Carbon tetrachloride	100	66-138	yes
	Chlorobenzene	94	81-122	yes
	Chloroethane	94	58-133	yes
	Chloroform	98	69-128	yes
	Chloromethane	91	56-131	yes
	cis-1,2-Dichloroethene	117	72-126	yes
	cis-1,3-Dichloropropene	101	69-131	yes
	Dibromochloromethane	93	66-133	yes
	Dichlorodifluoromethane	85	30-153	yes
	Ethylbenzene	90	73-127	yes
	Methylene chloride	113	63-137	yes
	Tetrachloroethene	110	66-128	yes
	Toluene	104	77-122	yes
	trans-1,2-Dichloroethene	105	63-137	yes
	trans-1,3-Dichloropropene	99	59-135	yes
	Trichloroethene	100	70-127	yes
S090629A	Trichlorofluoromethane	103	57-129	yes
(continued)	Vinyl chloride	86	50-134	yes
	Xylenes, total	90	76-128	yes
S090701A	1,1-Dichloroethene	101	68-130	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 24 of 24)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichloroethane	113	69-132	yes
	1,2-Dichloropropane	107	75-125	yes
	1,4-Dichlorobenzene	96	74-123	yes
	Carbon tetrachloride	110	66-138	yes
	Chloroform	104	69-128	yes
	Chloromethane	85	56-131	yes
	cis-1,2-Dichloroethene	113	72-126	yes
	Tetrachloroethene	114	66-128	yes
	Trichloroethene	99	70-127	yes
	Vinyl chloride	83	50-134	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 8)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
C090504A	1,1,1,2-Tetrachloroethane	114	80-120	yes
	1,1,1-Trichloroethane	110	80-120	yes
	1,1,2,2-Tetrachloroethane	111	80-120	yes
	1,1,2-Trichloroethane	111	80-120	yes
	1,1-Dichloroethane	109	80-120	yes
	1,1-Dichloroethene	105	80-120	yes
	1,1-Dichloropropene	107	80-120	yes
	1,2,3-Trichlorobenzene	95	80-120	yes
	1,2,3-Trichloropropane	110	80-120	yes
	1,2,4-Trichlorobenzene	93	80-120	yes
	1,2,4-Trimethylbenzene	108	80-120	yes
	1,2-Dibromo-3-chloropropane	93	80-120	yes
	1,2-Dibromoethane	110	80-120	yes
	1,2-Dichlorobenzene	100	80-120	yes
	1,2-Dichloroethane	105	80-120	yes
	1,2-Dichloropropane	101	80-120	yes
	1,3,5-Trimethylbenzene	107	80-120	yes
	1,3-Dichlorobenzene	108	80-120	yes
	1,3-Dichloropropane	105	80-120	yes
	1,4-Dichlorobenzene	107	80-120	yes
	2,2-Dichloropropane	99	80-120	yes
	2-Chlorotoluene	108	80-120	yes
	4-Chlorotoluene	105	80-120	yes
	Benzene	107	80-120	yes
	Bromobenzene	112	80-120	yes
	Bromochloromethane	114	80-120	yes
	Bromodichloromethane	111	80-120	yes
	Bromoform	107	80-120	yes
	Bromomethane	117	80-120	yes
	Carbon tetrachloride	103	80-120	yes
	Chlorobenzene	110	80-120	yes
	Chloroethane	96	80-120	yes
	Chloroform	108	80-120	yes
	Chloromethane	96	80-120	yes
	cis-1,2-Dichloroethene	110	80-120	yes
	cis-1,3-Dichloropropene	110	80-120	yes
	Dibromochloromethane	112	80-120	yes
	Dibromomethane	109	80-120	yes
	Dichlorodifluoromethane	112	80-120	yes
	Ethylbenzene	110	80-120	yes
	Hexachlorobutadiene	101	80-120	yes
	Isopropylbenzene	108	80-120	yes
	Methylene chloride	99	80-120	yes
	n-Butylbenzene	104	80-120	yes
	n-Propylbenzene	107	80-120	yes
C090504A (continued)	Naphthalene	96	80-120	yes
	p-Isopropyltoluene	104	80-120	yes
	sec-Butylbenzene	104	80-120	yes
	Styrene	112	80-120	yes
	t-Butylbenzene	108	80-120	yes
	Tetrachloroethene	110	80-120	yes
	Toluene	110	80-120	yes
	trans-1,2-Dichloroethene	107	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 8)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	trans-1,3-Dichloropropene	105	80-120	yes
	Trichloroethene	112	80-120	yes
	Trichlorofluoromethane	111	80-120	yes
	Vinyl chloride	101	80-120	yes
	Xylenes, total	111	80-120	yes
C090504B	1,1,1,2-Tetrachloroethane	111	80-120	yes
	1,1,1-Trichloroethane	107	80-120	yes
	1,1,2,2-Tetrachloroethane	107	80-120	yes
	1,1,2-Trichloroethane	107	80-120	yes
	1,1-Dichloroethane	104	80-120	yes
	1,1-Dichloroethene	103	80-120	yes
	1,1-Dichloropropene	101	80-120	yes
	1,2,3-Trichlorobenzene	87	80-120	yes
	1,2,3-Trichloropropane	101	80-120	yes
	1,2,4-Trichlorobenzene	81	80-120	yes
	1,2,4-Trimethylbenzene	104	80-120	yes
	1,2-Dibromo-3-chloropropane	91	80-120	yes
	1,2-Dibromoethane	108	80-120	yes
	1,2-Dichlorobenzene	95	80-120	yes
	1,2-Dichloroethane	102	80-120	yes
	1,2-Dichloropropane	97	80-120	yes
	1,3,5-Trimethylbenzene	102	80-120	yes
	1,3-Dichlorobenzene	99	80-120	yes
	1,3-Dichloropropane	96	80-120	yes
	1,4-Dichlorobenzene	100	80-120	yes
	2,2-Dichloropropane	80	80-120	yes
	2-Chlorotoluene	103	80-120	yes
	4-Chlorotoluene	97	80-120	yes
	Benzene	102	80-120	yes
	Bromobenzene	101	80-120	yes
	Bromochloromethane	105	80-120	yes
	Bromodichloromethane	107	80-120	yes
	Bromoform	101	80-120	yes
	Bromomethane	114	80-120	yes
	Carbon tetrachloride	99	80-120	yes
	Chlorobenzene	102	80-120	yes
C090504B	Chloroethane	84	80-120	yes
(continued)	Chloroform	104	80-120	yes
	Chloromethane	84	80-120	yes
	cis-1,2-Dichloroethene	101	80-120	yes
	cis-1,3-Dichloropropene	101	80-120	yes
	Dibromochloromethane	108	80-120	yes
	Dibromomethane	110	80-120	yes
	Dichlorodifluoromethane	101	80-120	yes
	Ethylbenzene	103	80-120	yes
	Hexachlorobutadiene	115	80-120	yes
	Isopropylbenzene	104	80-120	yes
	Methylene chloride	94	80-120	yes
	n-Butylbenzene	96	80-120	yes
	n-Propylbenzene	100	80-120	yes
	Naphthalene	87	80-120	yes
	p-Isopropyltoluene	96	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 8)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	sec-Butylbenzene	96	80-120	yes
	Styrene	105	80-120	yes
	t-Butylbenzene	101	80-120	yes
	Tetrachloroethene	103	80-120	yes
	Toluene	102	80-120	yes
	trans-1,2-Dichloroethene	101	80-120	yes
	trans-1,3-Dichloropropene	99	80-120	yes
	Trichloroethene	118	80-120	yes
	Trichlorofluoromethane	100	80-120	yes
	Vinyl chloride	95	80-120	yes
	Xylenes, total	103	80-120	yes
C090706A	1,1,1,2-Tetrachloroethane	101	80-120	yes
	1,1,1-Trichloroethane	99	80-120	yes
	1,1,2,2-Tetrachloroethane	106	80-120	yes
	1,1,2-Trichloroethane	104	80-120	yes
	1,1-Dichloroethane	90	80-120	yes
	1,1-Dichloroethene	100	80-120	yes
	1,1-Dichloropropene	99	80-120	yes
	1,2,3-Trichlorobenzene	101	80-120	yes
	1,2,3-Trichloropropane	101	80-120	yes
	1,2,4-Trichlorobenzene	96	80-120	yes
	1,2,4-Trimethylbenzene	97	80-120	yes
	1,2-Dibromo-3-chloropropane	107	80-120	yes
	1,2-Dibromoethane	104	80-120	yes
	1,2-Dichlorobenzene	99	80-120	yes
	1,2-Dichloroethane	96	80-120	yes
	1,2-Dichloropropane	97	80-120	yes
	1,3,5-Trimethylbenzene	94	80-120	yes
C090706A (continued)	1,3-Dichlorobenzene	100	80-120	yes
	1,3-Dichloropropane	99	80-120	yes
	1,4-Dichlorobenzene	96	80-120	yes
	2,2-Dichloropropane	93	80-120	yes
	2-Chlorotoluene	93	80-120	yes
	4-Chlorotoluene	97	80-120	yes
	Benzene	90	80-120	yes
	Bromobenzene	97	80-120	yes
	Bromochloromethane	88	80-120	yes
	Bromodichloromethane	101	80-120	yes
	Bromoform	102	80-120	yes
	Bromomethane	89	80-120	yes
	Carbon tetrachloride	101	80-120	yes
	Chlorobenzene	99	80-120	yes
	Chloroethane	86	80-120	yes
	Chloroform	95	80-120	yes
	Chloromethane	81	80-120	yes
	cis-1,2-Dichloroethene	96	80-120	yes
	cis-1,3-Dichloropropene	101	80-120	yes
	Dibromochloromethane	105	80-120	yes
	Dibromomethane	91	80-120	yes
	Dichlorodifluoromethane	115	80-120	yes
	Ethylbenzene	96	80-120	yes
	Hexachlorobutadiene	103	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 8)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Isopropylbenzene	97	80-120	yes
	Methylene chloride	95	80-120	yes
	n-Butylbenzene	99	80-120	yes
	n-Propylbenzene	97	80-120	yes
	Naphthalene	105	80-120	yes
	p-Isopropyltoluene	102	80-120	yes
	sec-Butylbenzene	97	80-120	yes
	Styrene	96	80-120	yes
	t-Butylbenzene	94	80-120	yes
	Tetrachloroethene	102	80-120	yes
	Toluene	94	80-120	yes
	trans-1,2-Dichloroethene	98	80-120	yes
	trans-1,3-Dichloropropene	106	80-120	yes
	Trichloroethene	98	80-120	yes
	Trichlorofluoromethane	106	80-120	yes
	Vinyl chloride	94	80-120	yes
	Xylenes, total	98	80-120	yes
N090427A	1,1,1,2-Tetrachloroethane	90	80-120	yes
	1,1,1-Trichloroethane	104	80-120	yes
	1,1,2,2-Tetrachloroethane	90	80-120	yes
N090427A	1,1,2-Trichloroethane	90	80-120	yes
(continued)	1,1-Dichloroethane	85	80-120	yes
	1,1-Dichloroethene	98	80-120	yes
	1,1-Dichloropropene	87	80-120	yes
	1,2,3-Trichlorobenzene	82	80-120	yes
	1,2,3-Trichloropropane	83	80-120	yes
	1,2,4-Trichlorobenzene	84	80-120	yes
	1,2,4-Trimethylbenzene	88	80-120	yes
	1,2-Dibromo-3-chloropropane	88	80-120	yes
	1,2-Dibromoethane	89	80-120	yes
	1,2-Dichlorobenzene	85	80-120	yes
	1,2-Dichloroethane	84	80-120	yes
	1,2-Dichloropropane	81	80-120	yes
	1,3,5-Trimethylbenzene	96	80-120	yes
	1,3-Dichlorobenzene	90	80-120	yes
	1,3-Dichloropropane	81	80-120	yes
	1,4-Dichlorobenzene	84	80-120	yes
	2,2-Dichloropropane	94	80-120	yes
	2-Chlorotoluene	87	80-120	yes
	4-Chlorotoluene	84	80-120	yes
	Benzene	89	80-120	yes
	Bromobenzene	87	80-120	yes
	Bromochloromethane	85	80-120	yes
	Bromodichloromethane	90	80-120	yes
	Bromoform	94	80-120	yes
	Bromomethane	105	80-120	yes
	Carbon tetrachloride	104	80-120	yes
	Chlorobenzene	84	80-120	yes
	Chloroethane	96	80-120	yes
	Chloroform	83	80-120	yes
	Chloromethane	98	80-120	yes
	cis-1,2-Dichloroethene	82	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 8)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	cis-1,3-Dichloropropene	100	80-120	yes
	Dibromochloromethane	99	80-120	yes
	Dibromomethane	87	80-120	yes
	Dichlorodifluoromethane	101	80-120	yes
	Ethylbenzene	84	80-120	yes
	Hexachlorobutadiene	91	80-120	yes
	Isopropylbenzene	87	80-120	yes
	Methylene chloride	95	80-120	yes
	n-Butylbenzene	90	80-120	yes
	n-Propylbenzene	90	80-120	yes
	Naphthalene	89	80-120	yes
	p-Isopropyltoluene	89	80-120	yes
	sec-Butylbenzene	88	80-120	yes
N090427A	Styrene	91	80-120	yes
(continued)	t-Butylbenzene	87	80-120	yes
	Tetrachloroethene	84	80-120	yes
	Toluene	85	80-120	yes
	trans-1,2-Dichloroethene	86	80-120	yes
	trans-1,3-Dichloropropene	114	80-120	yes
	Trichloroethene	83	80-120	yes
	Trichlorofluoromethane	93	80-120	yes
	Vinyl chloride	113	80-120	yes
	Xylenes, total	87	80-120	yes
N090428A	1,1,1,2-Tetrachloroethane	103	80-120	yes
	1,1,1-Trichloroethane	112	80-120	yes
	1,1,2,2-Tetrachloroethane	100	80-120	yes
	1,1,2-Trichloroethane	100	80-120	yes
	1,1-Dichloroethane	97	80-120	yes
	1,1-Dichloroethene	109	80-120	yes
	1,1-Dichloropropene	96	80-120	yes
	1,2,3-Trichlorobenzene	91	80-120	yes
	1,2,3-Trichloropropane	96	80-120	yes
	1,2,4-Trichlorobenzene	89	80-120	yes
	1,2,4-Trimethylbenzene	96	80-120	yes
	1,2-Dibromo-3-chloropropane	99	80-120	yes
	1,2-Dibromoethane	97	80-120	yes
	1,2-Dichlorobenzene	91	80-120	yes
	1,2-Dichloroethane	103	80-120	yes
	1,2-Dichloropropane	93	80-120	yes
	1,3,5-Trimethylbenzene	102	80-120	yes
	1,3-Dichlorobenzene	98	80-120	yes
	1,3-Dichloropropane	90	80-120	yes
	1,4-Dichlorobenzene	94	80-120	yes
	2,2-Dichloropropane	85	80-120	yes
	2-Chlorotoluene	94	80-120	yes
	4-Chlorotoluene	92	80-120	yes
	Benzene	98	80-120	yes
	Bromobenzene	90	80-120	yes
	Bromochloromethane	91	80-120	yes
	Bromodichloromethane	100	80-120	yes
	Bromoform	109	80-120	yes
	Bromomethane	118	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 8)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Carbon tetrachloride	82	80-120	yes
	Chlorobenzene	92	80-120	yes
	Chloroethane	112	80-120	yes
	Chloroform	95	80-120	yes
	Chloromethane	103	80-120	yes
N090428A	cis-1,2-Dichloroethene	91	80-120	yes
(continued)	cis-1,3-Dichloropropene	102	80-120	yes
	Dibromochloromethane	105	80-120	yes
	Dibromomethane	102	80-120	yes
	Dichlorodifluoromethane	116	80-120	yes
	Ethylbenzene	93	80-120	yes
	Hexachlorobutadiene	92	80-120	yes
	Isopropylbenzene	96	80-120	yes
	Methylene chloride	107	80-120	yes
	n-Butylbenzene	94	80-120	yes
	n-Propylbenzene	93	80-120	yes
	Naphthalene	85	80-120	yes
	p-Isopropyltoluene	101	80-120	yes
	sec-Butylbenzene	99	80-120	yes
	Styrene	100	80-120	yes
	t-Butylbenzene	95	80-120	yes
	Tetrachloroethene	88	80-120	yes
	Toluene	95	80-120	yes
	trans-1,2-Dichloroethene	95	80-120	yes
	trans-1,3-Dichloropropene	101	80-120	yes
	Trichloroethene	91	80-120	yes
	Trichlorofluoromethane	104	80-120	yes
	Vinyl chloride	118	80-120	yes
	Xylenes, total	94	80-120	yes
S090528A	1,1,1,2-Tetrachloroethane	101	80-120	yes
	1,1,1-Trichloroethane	96	80-120	yes
	1,1,2,2-Tetrachloroethane	100	80-120	yes
	1,1,2-Trichloroethane	101	80-120	yes
	1,1-Dichloroethane	95	80-120	yes
	1,1-Dichloroethene	101	80-120	yes
	1,1-Dichloropropene	99	80-120	yes
	1,2,3-Trichlorobenzene	88	80-120	yes
	1,2,3-Trichloropropane	103	80-120	yes
	1,2,4-Trichlorobenzene	92	80-120	yes
	1,2,4-Trimethylbenzene	100	80-120	yes
	1,2-Dibromo-3-chloropropane	92	80-120	yes
	1,2-Dibromoethane	95	80-120	yes
	1,2-Dichlorobenzene	97	80-120	yes
	1,2-Dichloroethane	98	80-120	yes
	1,2-Dichloropropane	98	80-120	yes
	1,3,5-Trimethylbenzene	106	80-120	yes
	1,3-Dichlorobenzene	101	80-120	yes
	1,3-Dichloropropane	95	80-120	yes
	1,4-Dichlorobenzene	107	80-120	yes
S090528A	2,2-Dichloropropane	98	80-120	yes
(continued)	2-Chlorotoluene	103	80-120	yes
	4-Chlorotoluene	96	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 8)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Benzene	92	80-120	yes
	Bromobenzene	103	80-120	yes
	Bromochloromethane	95	80-120	yes
	Bromodichloromethane	104	80-120	yes
	Bromoform	97	80-120	yes
	Bromomethane	113	80-120	yes
	Carbon tetrachloride	93	80-120	yes
	Chlorobenzene	97	80-120	yes
	Chloroethane	100	80-120	yes
	Chloroform	103	80-120	yes
	Chloromethane	94	80-120	yes
	cis-1,2-Dichloroethene	102	80-120	yes
	cis-1,3-Dichloropropene	97	80-120	yes
	Dibromochloromethane	104	80-120	yes
	Dibromomethane	93	80-120	yes
	Dichlorodifluoromethane	107	80-120	yes
	Ethylbenzene	102	80-120	yes
	Hexachlorobutadiene	96	80-120	yes
	Isopropylbenzene	103	80-120	yes
	Methylene chloride	85	80-120	yes
	n-Butylbenzene	99	80-120	yes
	n-Propylbenzene	101	80-120	yes
	Naphthalene	105	80-120	yes
	p-Isopropyltoluene	102	80-120	yes
	sec-Butylbenzene	106	80-120	yes
	Styrene	104	80-120	yes
	t-Butylbenzene	99	80-120	yes
	Tetrachloroethene	100	80-120	yes
	Toluene	95	80-120	yes
	trans-1,2-Dichloroethene	97	80-120	yes
	trans-1,3-Dichloropropene	97	80-120	yes
	Trichloroethene	105	80-120	yes
	Trichlorofluoromethane	101	80-120	yes
	Vinyl chloride	97	80-120	yes
	Xylenes, total	102	80-120	yes
S090609A	1,1,1,2-Tetrachloroethane	101	80-120	yes
	1,1,1-Trichloroethane	102	80-120	yes
	1,1,2,2-Tetrachloroethane	94	80-120	yes
	1,1,2-Trichloroethane	105	80-120	yes
	1,1-Dichloroethane	102	80-120	yes
	1,1-Dichloroethene	104	80-120	yes
S090609A	1,1-Dichloropropene	103	80-120	yes
(continued)	1,2,3-Trichlorobenzene	96	80-120	yes
	1,2,3-Trichloropropane	89	80-120	yes
	1,2,4-Trichlorobenzene	102	80-120	yes
	1,2,4-Trimethylbenzene	103	80-120	yes
	1,2-Dibromo-3-chloropropane	81	80-120	yes
	1,2-Dibromoethane	96	80-120	yes
	1,2-Dichlorobenzene	99	80-120	yes
	1,2-Dichloroethane	99	80-120	yes
	1,2-Dichloropropane	94	80-120	yes
	1,3,5-Trimethylbenzene	104	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 8)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,3-Dichlorobenzene	101	80-120	yes
	1,3-Dichloropropane	97	80-120	yes
	1,4-Dichlorobenzene	102	80-120	yes
	2,2-Dichloropropane	91	80-120	yes
	2-Chlorotoluene	105	80-120	yes
	4-Chlorotoluene	101	80-120	yes
	Benzene	101	80-120	yes
	Bromobenzene	97	80-120	yes
	Bromochloromethane	93	80-120	yes
	Bromodichloromethane	97	80-120	yes
	Bromoform	99	80-120	yes
	Bromomethane	97	80-120	yes
	Carbon tetrachloride	106	80-120	yes
	Chlorobenzene	99	80-120	yes
	Chloroethane	97	80-120	yes
	Chloroform	102	80-120	yes
	Chloromethane	94	80-120	yes
	cis-1,2-Dichloroethene	97	80-120	yes
	cis-1,3-Dichloropropene	97	80-120	yes
	Dibromochloromethane	101	80-120	yes
	Dibromomethane	99	80-120	yes
	Dichlorodifluoromethane	120	80-120	yes
	Ethylbenzene	101	80-120	yes
	Hexachlorobutadiene	107	80-120	yes
	Isopropylbenzene	105	80-120	yes
	Methylene chloride	90	80-120	yes
	n-Butylbenzene	101	80-120	yes
	n-Propylbenzene	100	80-120	yes
	Naphthalene	105	80-120	yes
	p-Isopropyltoluene	104	80-120	yes
	sec-Butylbenzene	104	80-120	yes
	Styrene	101	80-120	yes
	t-Butylbenzene	100	80-120	yes
	Tetrachloroethene	100	80-120	yes
S090609A	Toluene	98	80-120	yes
(continued)	trans-1,2-Dichloroethene	103	80-120	yes
	trans-1,3-Dichloropropene	95	80-120	yes
	Trichloroethene	105	80-120	yes
	Trichlorofluoromethane	118	80-120	yes
	Vinyl chloride	110	80-120	yes
	Xylenes, total	100	80-120	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.3

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090404B	TPH, gasoline-range	89	67-136	yes
H090418A	TPH, gasoline-range	93	67-136	yes
H090419A	TPH, gasoline-range	103	67-136	yes
H090420B	TPH, gasoline-range	92	67-136	yes
H090421A	TPH, gasoline-range	103	67-136	yes
H090421B	TPH, gasoline-range	94	67-136	yes
H090430A	TPH, gasoline-range	108	67-136	yes
H090512A	TPH, gasoline-range	92	67-136	yes
H090520A	TPH, gasoline-range	90	67-136	yes
H090521A	TPH, gasoline-range	94	67-136	yes
H090521B	TPH, gasoline-range	90	67-136	yes
H090601A	TPH, gasoline-range	102	67-136	yes
H090609A	TPH, gasoline-range	89	67-136	yes
H090625A	TPH, gasoline-range	93	67-136	yes
H090708A	TPH, gasoline-range	87	67-136	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.4

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
A090416A	TPH, diesel-range	70	61-143	yes
A090421A	TPH, diesel-range	65	61-143	yes
A090423A	TPH, diesel-range	61	61-143	yes
A090515A	TPH, diesel-range	67	61-143	yes
A090526A	TPH, diesel-range	83	61-143	yes
A090528A	TPH, diesel-range	72	61-143	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.5

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8081 - PESTICIDES
USEPA METHOD 8082 - POLYCHLORINATED BIPHENYLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 8081			
E090421A	Aldrin	54	42-138	yes
	Alpha endosulfan	83	49-120	yes
	alpha-BHC	84	60-128	yes
	alpha-Chlordane	74	63-123	yes
	Beta endosulfan	78	42-130	yes
	beta-BHC	78	66-126	yes
	delta-BHC	64	46-136	yes
	Dieldrin	80	62-129	yes
	Endosulfan sulfate	71	54-137	yes
	Endrin	79	56-134	yes
	Endrin aldehyde	79	56-137	yes
	gamma-BHC (Lindane)	85	30-146	yes
	gamma-Chlordane	71	67-120	yes
	Heptachlor	58	51-128	yes
	Heptachlor epoxide	79	62-131	yes
	Methoxychlor	79	56-150	yes
	p,p'-DDD	72	50-139	yes
	p,p'-DDE	75	48-137	yes
	p,p'-DDT	83	47-138	yes
	Toxaphene	75	41-126	yes
L090423B	Aldrin	62	42-138	yes
	Alpha endosulfan	78	49-120	yes
	alpha-BHC	83	60-128	yes
	alpha-Chlordane	77	63-123	yes
	Beta endosulfan	81	42-130	yes
	beta-BHC	77	66-126	yes
	delta-BHC	81	46-136	yes
	Dieldrin	82	62-129	yes
	Endosulfan sulfate	83	54-137	yes
	Endrin	88	56-134	yes
	Endrin aldehyde	81	56-137	yes
	gamma-BHC (Lindane)	84	30-146	yes
	gamma-Chlordane	74	67-120	yes
	Heptachlor	61	51-128	yes
	Heptachlor epoxide	77	62-131	yes
	Methoxychlor	94	56-150	yes
	p,p'-DDD	80	50-139	yes
	p,p'-DDE	80	48-137	yes
	p,p'-DDT	95	47-138	yes
	Toxaphene	67	41-126	yes

TABLE 5-2.5

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8081 - PESTICIDES
USEPA METHOD 8082 - POLYCHLORINATED BIPHENYLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 8082			
E090421A	PCB-1016 (Arochlor 1016)	70	40-144	yes
	PCB-1260 (Arochlor 1260)	66	45-145	yes
L090423A	PCB-1016 (Arochlor 1016)	83	40-144	yes
	PCB-1260 (Arochlor 1260)	82	45-145	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.6

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
Y090417A	2-Methylnaphthalene	99	46-120	yes
	Acenaphthene	99	47-120	yes
	Acenaphthylene	97	50-120	yes
	Anthracene	102	54-120	yes
	Benzo(a)anthracene	108	56-120	yes
	Benzo(a)pyrene	112	53-120	yes
	Benzo(b)fluoranthene	105	45-124	yes
	Benzo(g,h,i)perylene	93	38-123	yes
	Benzo(k)fluoranthene	120	45-124	yes
	Chrysene	115	55-120	yes
	Dibenz(a,h)anthracene	98	42-127	yes
	Fluoranthene	103	54-120	yes
	Fluorene	100	50-120	yes
	Indeno(1,2,3-c,d)pyrene	99	43-125	yes
	Naphthalene	99	39-120	yes
	Phenanthrene	104	51-120	yes
	Pyrene	107	49-128	yes
Y090421C	2-Methylnaphthalene	83	46-120	yes
	Acenaphthene	84	47-120	yes
	Acenaphthylene	85	50-120	yes
	Anthracene	93	54-120	yes
	Benzo(a)anthracene	99	56-120	yes
	Benzo(a)pyrene	99	53-120	yes
	Benzo(b)fluoranthene	108	45-124	yes
	Benzo(g,h,i)perylene	83	38-123	yes
	Benzo(k)fluoranthene	94	45-124	yes
	Chrysene	98	55-120	yes
	Dibenz(a,h)anthracene	89	42-127	yes
	Fluoranthene	96	54-120	yes
	Fluorene	89	50-120	yes
	Indeno(1,2,3-c,d)pyrene	90	43-125	yes
	Naphthalene	83	39-120	yes
	Phenanthrene	94	51-120	yes
	Pyrene	94	49-128	yes
Y090427A	2-Methylnaphthalene	92	46-120	yes
	Acenaphthene	92	47-120	yes
	Acenaphthylene	100	50-120	yes
	Anthracene	104	54-120	yes
	Benzo(a)anthracene	108	56-120	yes
	Benzo(a)pyrene	110	53-120	yes
	Benzo(b)fluoranthene	119	45-124	yes
	Benzo(g,h,i)perylene	93	38-123	yes

TABLE 5-2.6

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Benzo(k)fluoranthene	101	45-124	yes
Y090427A	Chrysene	111	55-120	yes
(continued)	Dibenz(a,h)anthracene	100	42-127	yes
	Fluoranthene	105	54-120	yes
	Fluorene	105	50-120	yes
	Indeno(1,2,3-c,d)pyrene	100	43-125	yes
	Naphthalene	90	39-120	yes
	Phenanthrene	100	51-120	yes
	Pyrene	112	49-128	yes
Y090526A	2-Methylnaphthalene	77	46-120	yes
	Acenaphthene	76	47-120	yes
	Acenaphthylene	77	50-120	yes
	Anthracene	81	54-120	yes
	Benzo(a)anthracene	83	56-120	yes
	Benzo(a)pyrene	88	53-120	yes
	Benzo(b)fluoranthene	87	45-124	yes
	Benzo(g,h,i)perylene	86	38-123	yes
	Benzo(k)fluoranthene	84	45-124	yes
	Chrysene	84	55-120	yes
	Dibenz(a,h)anthracene	90	42-127	yes
	Fluoranthene	83	54-120	yes
	Fluorene	81	50-120	yes
	Indeno(1,2,3-c,d)pyrene	84	43-125	yes
	Naphthalene	75	39-120	yes
	Phenanthrene	79	51-120	yes
	Pyrene	88	49-128	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.7

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 5)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 6010			
P090416B	Antimony	107	80-120	yes
	Arsenic	105	80-120	yes
	Barium	110	80-120	yes
	Beryllium	115	80-120	yes
	Cadmium	111	80-120	yes
	Calcium	106	80-120	yes
	Chromium	112	80-120	yes
	Cobalt	112	80-120	yes
	Copper	101	80-120	yes
	Iron	109	80-120	yes
	Lead	111	80-120	yes
	Magnesium	114	80-120	yes
	Manganese	113	80-120	yes
	Nickel	108	80-120	yes
	Selenium	97	80-120	yes
	Silver	105	80-120	yes
	Sodium	117	80-120	yes
	Vanadium	113	80-120	yes
	Zinc	104	80-120	yes
P090417A	Antimony	104	80-120	yes
	Arsenic	101	80-120	yes
	Barium	110	80-120	yes
	Beryllium	111	80-120	yes
	Cadmium	110	80-120	yes
	Chromium	112	80-120	yes
	Cobalt	112	80-120	yes
	Copper	108	80-120	yes
	Lead	107	80-120	yes
	Manganese	111	80-120	yes
	Nickel	110	80-120	yes
	Selenium	94	80-120	yes
	Silver	105	80-120	yes
	Vanadium	112	80-120	yes
	Zinc	106	80-120	yes
P090420B	Antimony	101	80-120	yes
	Arsenic	101	80-120	yes
	Barium	108	80-120	yes
	Beryllium	106	80-120	yes
	Cadmium	109	80-120	yes
	Calcium	104	80-120	yes
	Chromium	110	80-120	yes

TABLE 5-2.7

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 5)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Cobalt	109	80-120	yes
P090420B	Copper	105	80-120	yes
(continued)	Iron	107	80-120	yes
	Lead	104	80-120	yes
	Magnesium	107	80-120	yes
	Manganese	107	80-120	yes
	Nickel	108	80-120	yes
	Selenium	92	80-120	yes
	Silver	103	80-120	yes
	Sodium	107	80-120	yes
	Vanadium	109	80-120	yes
	Zinc	104	80-120	yes
P090422A	Antimony	104	80-120	yes
	Arsenic	100	80-120	yes
	Barium	110	80-120	yes
	Beryllium	112	80-120	yes
	Cadmium	109	80-120	yes
	Chromium	114	80-120	yes
	Cobalt	112	80-120	yes
	Copper	112	80-120	yes
	Lead	106	80-120	yes
	Manganese	111	80-120	yes
	Nickel	106	80-120	yes
	Selenium	91	80-120	yes
	Silver	106	80-120	yes
	Vanadium	112	80-120	yes
	Zinc	104	80-120	yes
P090423A	Nickel	113	80-120	yes
P090427A	Antimony	108	80-120	yes
	Arsenic	113	80-120	yes
	Barium	117	80-120	yes
	Beryllium	113	80-120	yes
	Cadmium	114	80-120	yes
	Chromium	115	80-120	yes
	Cobalt	111	80-120	yes
	Copper	107	80-120	yes
	Lead	114	80-120	yes
	Manganese	114	80-120	yes
	Nickel	113	80-120	yes
	Selenium	109	80-120	yes
	Silver	106	80-120	yes

TABLE 5-2.7

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 5)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Vanadium	113	80-120	yes
	Zinc	112	80-120	yes
P090505A	Lead	101	80-120	yes
P090513A	Antimony	103	80-120	yes
	Arsenic	101	80-120	yes
	Barium	108	80-120	yes
	Beryllium	101	80-120	yes
	Cadmium	106	80-120	yes
	Calcium	99	80-120	yes
	Chromium	109	80-120	yes
	Cobalt	108	80-120	yes
	Copper	104	80-120	yes
	Iron	109	80-120	yes
	Lead	108	80-120	yes
	Magnesium	102	80-120	yes
	Manganese	103	80-120	yes
	Nickel	107	80-120	yes
	Selenium	99	80-120	yes
	Silver	103	80-120	yes
	Sodium	100	80-120	yes
	Vanadium	108	80-120	yes
	Zinc	114	80-120	yes
P090515A	Antimony	96	80-120	yes
	Arsenic	108	80-120	yes
	Barium	109	80-120	yes
	Beryllium	99	80-120	yes
	Cadmium	109	80-120	yes
	Calcium	101	80-120	yes
	Chromium	114	80-120	yes
	Cobalt	108	80-120	yes
	Copper	109	80-120	yes
	Iron	110	80-120	yes
	Lead	102	80-120	yes
	Magnesium	109	80-120	yes
	Manganese	107	80-120	yes
	Nickel	110	80-120	yes
	Selenium	101	80-120	yes
	Silver	101	80-120	yes
	Sodium	106	80-120	yes
	Vanadium	109	80-120	yes
	Zinc	103	80-120	yes

TABLE 5-2.7

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 5)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
P090518A	Antimony	92	80-120	yes
	Arsenic	109	80-120	yes
	Barium	108	80-120	yes
P090518A	Beryllium	96	80-120	yes
(continued)	Cadmium	107	80-120	yes
	Chromium	111	80-120	yes
	Cobalt	111	80-120	yes
	Copper	108	80-120	yes
	Lead	98	80-120	yes
	Manganese	106	80-120	yes
	Nickel	109	80-120	yes
	Selenium	98	80-120	yes
	Silver	100	80-120	yes
	Vanadium	107	80-120	yes
	Zinc	97	80-120	yes
P090521A	Antimony	107	80-120	yes
	Arsenic	105	80-120	yes
	Barium	113	80-120	yes
	Beryllium	106	80-120	yes
	Cadmium	111	80-120	yes
	Chromium	112	80-120	yes
	Cobalt	114	80-120	yes
	Copper	110	80-120	yes
	Lead	110	80-120	yes
	Manganese	110	80-120	yes
	Nickel	112	80-120	yes
	Selenium	102	80-120	yes
	Silver	104	80-120	yes
	Vanadium	114	80-120	yes
	Zinc	108	80-120	yes
P090529A	Lead	111	80-120	yes
P090602A	Lead	108	80-120	yes
	<u>USEPA 6020</u>			
O090421A	Thallium	93	80-120	yes
O090430B	Thallium	92	80-120	yes
O090514A	Thallium	99	80-120	yes
O090515B	Thallium	92	80-120	yes

TABLE 5-2.7

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 5)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
O090520A	Thallium	95	80-120	yes
O090522A	Thallium	96	80-120	yes
	USEPA 7470			
F090416A	Mercury	102	85-115	yes
F090417A	Mercury	108	85-115	yes
F090421B	Mercury	98	85-115	yes
F090422A	Mercury	102	85-115	yes
F090427A	Mercury	90	85-115	yes
F090520A	Mercury	100	85-115	yes
F090521A	Mercury	95	85-115	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.8

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	SM 2320			
T090425A	Total Alkalinity	105	80-120	yes
T090427A	Total Alkalinity	100	80-120	yes
T090501A	Total Alkalinity	94	80-120	yes
T090519B	Total Alkalinity	94	80-120	yes
T090527A	Total Alkalinity	100	80-120	yes
T090528A	Total Alkalinity	100	80-120	yes
	USEPA 130.2			
B090424A	Hardness as CaCO3	101	80-120	yes
B090428A	Hardness as CaCO3	101	80-120	yes
B090523A	Hardness as CaCO3	101	80-120	yes
	USEPA 160.1			
M090415A	Total Filterable Residue	102	80-120	yes
M090417A	Total Filterable Residue	96	80-120	yes
M090422A	Total Filterable Residue	103	80-120	yes
M090422C	Total Filterable Residue	102	80-120	yes
M090422E	Total Filterable Residue	100	80-120	yes
M090428A	Total Filterable Residue	94	80-120	yes
M090513B	Total Filterable Residue	94	80-120	yes
M090518A	Total Filterable Residue	100	80-120	yes
M090518B	Total Filterable Residue	100	80-120	yes
M090520A	Total Filterable Residue	98	80-120	yes
M090526B	Total Filterable Residue	100	80-120	yes

TABLE 5-2.8

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 300.0			
D090414A	Chloride	98	85-115	yes
	Nitrate (as N)	98	85-115	yes
	Sulfate	99	85-115	yes
D090414B	Chloride	101	85-115	yes
	Sulfate	102	85-115	yes
D090417A	Chloride	99	85-115	yes
	Nitrate (as N)	97	85-115	yes
	Sulfate	98	85-115	yes
D090427A	Chloride	95	85-115	yes
	Sulfate	95	85-115	yes
D090429A	Chloride	94	90-110	yes
	Sulfate	94	90-110	yes
D090513A	Chloride	94	85-115	yes
	Nitrate (as N)	94	85-115	yes
	Sulfate	94	85-115	yes
D090514A	Chloride	95	85-115	yes
	Nitrate (as N)	94	85-115	yes
	Sulfate	94	85-115	yes
D090515A	Chloride	95	85-115	yes
	Sulfate	94	85-115	yes
D090519A	Chloride	95	85-115	yes
	Sulfate	94	85-115	yes
D090520A	Chloride	93	85-115	yes
	Sulfate	93	85-115	yes
	USEPA 314.0			
D090428A	Perchlorate	97	80-120	yes
	USEPA 340.2			
M090420A	Fluoride	103	86-114	yes
M090501A	Fluoride	104	86-114	yes

TABLE 5-2.8

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
M090526A	Fluoride	106	86-114	yes
	USEPA 376.1			
090415A	Sulfide, total	96	80-120	yes
090424A	Sulfide, total	91	80-120	yes
090515A	Sulfide, total	94	80-120	yes
090519A	Sulfide, total	94	80-120	yes
090520A	Sulfide, total	96	80-120	yes
	USEPA 7196			
M090414A	Hexavalent Chromium	106	86-117	yes
M090415A	Hexavalent Chromium	103	86-117	yes
M090416A	Hexavalent Chromium	102	86-117	yes
M090421A	Hexavalent Chromium	101	86-117	yes
M090513A	Hexavalent Chromium	106	86-117	yes
M090514A	Hexavalent Chromium	104	86-117	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-EW-2	1,1,1-Trichloroethane	103	95	67-132	yes	8.6	20	yes
	1,1,2,2-Tetrachloroethane	94	94	63-128	yes	1.0	20	yes
	1,1,2-Trichloroethane	105	102	75-125	yes	2.9	20	yes
	1,1-Dichloroethane	106	94	69-133	yes	12.4	20	yes
	1,1-Dichloroethene	105	92	68-130	yes	13.6	20	yes
	1,2-Dichlorobenzene	73	78	71-122	yes	6.0	20	yes
	1,2-Dichloroethane	104	96	69-132	yes	8.0	20	yes
	1,2-Dichloropropane	115	108	75-125	yes	6.3	20	yes
	1,3-Dichlorobenzene	74	75	75-124	no	2.2	20	yes
	1,4-Dichlorobenzene	73	77	74-123	no	5.4	20	yes
	Benzene	103	99	81-122	yes	4.5	20	yes
	Bromodichloromethane	109	101	76-121	yes	7.6	20	yes
	Bromoform	78	84	69-128	yes	6.8	20	yes
	Bromomethane	79	73	30-141	yes	8.2	20	yes
	Carbon tetrachloride	95	91	66-138	yes	4.5	20	yes
	Chlorobenzene	92	93	81-122	yes	1.0	20	yes
	Chloroethane	94	79	58-133	yes	17.0	20	yes
	Chloroform	107	99	69-128	yes	8.1	20	yes
	Chloromethane	109	91	56-131	yes	17.8	20	yes
	cis-1,2-Dichloroethene	103	91	72-126	yes	12.4	20	yes
	cis-1,3-Dichloropropene	108	105	69-131	yes	2.8	20	yes
	Dibromochloromethane	81	81	66-133	yes	0.6	20	yes
	Dichlorodifluoromethane	107	95	30-153	yes	12.3	20	yes
	Ethylbenzene	95	93	73-127	yes	2.5	20	yes
	Methylene chloride	105	97	63-137	yes	7.5	20	yes
	Tetrachloroethene	95	88	66-128	yes	7.7	20	yes
	Toluene	102	96	77-122	yes	5.9	20	yes
	trans-1,2-Dichloroethene	100	93	63-137	yes	7.3	20	yes
	trans-1,3-Dichloropropene	103	97	59-135	yes	5.9	20	yes
7-EW-2 (continued)	Trichloroethene	82	63	70-127	no	26.2*	20	no
	Trichlorofluoromethane	114	100	57-129	yes	13.1	20	yes
	Vinyl chloride	116	105	50-134	yes	10.0	20	yes
	Xylenes, total	93	92	76-128	yes	1.1	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-04/16/09	1,1,1-Trichloroethane	96	94	67-132	yes	1.9	20	yes
	1,1,2,2-Tetrachloroethane	103	98	63-128	yes	5.3	20	yes
	1,1,2-Trichloroethane	112	113	75-125	yes	0.9	20	yes
	1,1-Dichloroethane	99	96	69-133	yes	3.1	20	yes
	1,1-Dichloroethene	92	91	68-130	yes	2.1	20	yes
	1,2-Dichlorobenzene	85	81	71-122	yes	4.9	20	yes
	1,2-Dichloroethane	99	97	69-132	yes	2.0	20	yes
	1,2-Dichloropropane	110	107	75-125	yes	2.8	20	yes
	1,3-Dichlorobenzene	79	79	75-124	yes	0.9	20	yes
	1,4-Dichlorobenzene	82	80	74-123	yes	2.1	20	yes
	Benzene	102	98	81-122	yes	3.9	20	yes
	Bromodichloromethane	109	111	76-121	yes	1.8	20	yes
	Bromoform	90	83	69-128	yes	8.0	20	yes
	Bromomethane	68	77	30-141	yes	12.4	20	yes
	Carbon tetrachloride	88	100	66-138	yes	12.4	20	yes
	Chlorobenzene	93	93	81-122	yes	0.6	20	yes
	Chloroethane	73	76	58-133	yes	4.0	20	yes
	Chloroform	104	99	69-128	yes	4.5	20	yes
	Chloromethane	93	91	56-131	yes	1.6	20	yes
	cis-1,2-Dichloroethene	94	91	72-126	yes	3.2	20	yes
	cis-1,3-Dichloropropene	112	112	69-131	yes	0.0	20	yes
	Dibromochloromethane	92	85	66-133	yes	8.4	20	yes
	Dichlorodifluoromethane	85	82	30-153	yes	3.4	20	yes
	Ethylbenzene	93	88	73-127	yes	4.8	20	yes
7-PTI-04/16/09	Methylene chloride	92	96	63-137	yes	4.5	20	yes
(continued)	Tetrachloroethene	92	90	66-128	yes	2.2	20	yes
	Toluene	104	103	77-122	yes	1.0	20	yes
	trans-1,2-Dichloroethene	98	92	63-137	yes	6.0	20	yes
	trans-1,3-Dichloropropene	102	109	59-135	yes	6.6	20	yes
	Trichloroethene	69	63	70-127	no	9.1	20	yes
	Trichlorofluoromethane	100	96	57-129	yes	4.1	20	yes
	Vinyl chloride	97	97	50-134	yes	0.2	20	yes

Mather AR # 2970.1 Page 294 of 1088

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Xylenes, total	94	91	76-128	yes	3.6	20	yes
7-PZ-37P	1,1,1-Trichloroethane	82	86	67-132	yes	4.1	20	yes
	1,1,2,2-Tetrachloroethane	78	80	63-128	yes	2.8	20	yes
	1,1,2-Trichloroethane	86	92	75-125	yes	7.4	20	yes
	1,1-Dichloroethane	84	88	69-133	yes	4.7	20	yes
	1,1-Dichloroethene	76	86	68-130	yes	11.5	20	yes
	1,2-Dichlorobenzene	82	84	71-122	yes	1.8	20	yes
	1,2-Dichloroethane	72	77	69-132	yes	6.9	20	yes
	1,2-Dichloropropane	85	87	75-125	yes	2.9	20	yes
	1,3-Dichlorobenzene	85	84	75-124	yes	1.5	20	yes
	1,4-Dichlorobenzene	80	84	74-123	yes	5.1	20	yes
	Benzene	87	94	81-122	yes	7.1	20	yes
	Bromodichloromethane	83	95	76-121	yes	13.4	20	yes
	Bromoform	81	89	69-128	yes	9.8	20	yes
	Bromomethane	93	97	30-141	yes	4.4	20	yes
	Carbon tetrachloride	60	83	66-138	no	31.9	20	no
	Chlorobenzene	90	91	81-122	yes	1.0	20	yes
	Chloroethane	82	87	58-133	yes	6.2	20	yes
	Chloroform	83	88	69-128	yes	6.3	20	yes
	Chloromethane	73	85	56-131	yes	14.7	20	yes
7-PZ-37P	cis-1,2-Dichloroethene	85	89	72-126	yes	4.8	20	yes
(continued)	cis-1,3-Dichloropropene	51	67	69-131	no	27.1	20	no
	Dibromochloromethane	70	78	66-133	yes	10.5	20	yes
	Dichlorodifluoromethane	78	90	30-153	yes	13.9	20	yes
	Ethylbenzene	92	92	73-127	yes	0.1	20	yes
	Methylene chloride	101	103	63-137	yes	2.0	20	yes
	Tetrachloroethene	83	84	66-128	yes	1.2	20	yes
	Toluene	91	96	77-122	yes	6.1	20	yes
	trans-1,2-Dichloroethene	87	91	63-137	yes	4.2	20	yes
	trans-1,3-Dichloropropene	51	69	59-135	no	29.8	20	no
	Trichloroethene	77	85	70-127	yes	9.9	20	yes
	Trichlorofluoromethane	85	95	57-129	yes	11.6	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Vinyl chloride	102	98	50-134	yes	3.6	20	yes
	Xylenes, total	88	91	76-128	yes	3.0	20	yes
ACW AT-1	1,1-Dichloroethene	89	96	68-130	yes	7.4	20	yes
	1,2-Dichloroethane	84	94	69-132	yes	11.2	20	yes
	1,2-Dichloropropane	96	105	75-125	yes	9.0	20	yes
	1,4-Dichlorobenzene	89	99	74-123	yes	11.4	20	yes
	Carbon tetrachloride	91	92	66-138	yes	2.0	20	yes
	Chloroform	92	103	69-128	yes	11.5	20	yes
	Chloromethane	89	106	56-131	yes	17.4	20	yes
	cis-1,2-Dichloroethene	95	105	72-126	yes	9.6	20	yes
	Tetrachloroethene	95	102	66-128	yes	7.2	20	yes
	Trichloroethene	63	83	70-127	no	27.4*	20	no
	Vinyl chloride	86	93	50-134	yes	7.9	20	yes
ACW PTI-04/16/09	1,1,1-Trichloroethane	103	97	67-132	yes	5.8	20	yes
	1,1,2,2-Tetrachloroethane	101	101	63-128	yes	0.0	20	yes
ACW PTI-04/16/09 (continued)	1,1,2-Trichloroethane	108	107	75-125	yes	0.9	20	yes
	1,1-Dichloroethane	107	99	69-133	yes	8.0	20	yes
	1,1-Dichloroethene	106	96	68-130	yes	9.6	20	yes
	1,2-Dichlorobenzene	84	86	71-122	yes	3.1	20	yes
	1,2-Dichloroethane	106	101	69-132	yes	4.8	20	yes
	1,2-Dichloropropane	107	104	75-125	yes	2.8	20	yes
	1,3-Dichlorobenzene	82	82	75-124	yes	0.4	20	yes
	1,4-Dichlorobenzene	86	87	74-123	yes	0.5	20	yes
	Benzene	104	98	81-122	yes	5.8	20	yes
	Bromodichloromethane	116	107	76-121	yes	8.1	20	yes
	Bromoform	85	86	69-128	yes	0.6	20	yes
	Bromomethane	84	87	30-141	yes	2.9	20	yes
	Carbon tetrachloride	99	93	66-138	yes	6.8	20	yes
	Chlorobenzene	98	98	81-122	yes	0.2	20	yes
	Chloroethane	91	79	58-133	yes	14.5	20	yes
	Chloroform	108	101	69-128	yes	6.7	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Chloromethane	102	93	56-131	yes	9.2	20	yes
	cis-1,2-Dichloroethene	107	97	72-126	yes	9.7	20	yes
	cis-1,3-Dichloropropene	110	104	69-131	yes	5.6	20	yes
	Dibromochloromethane	86	83	66-133	yes	3.8	20	yes
	Dichlorodifluoromethane	95	88	30-153	yes	7.5	20	yes
	Ethylbenzene	98	96	73-127	yes	1.5	20	yes
	Methylene chloride	99	97	63-137	yes	2.0	20	yes
	Tetrachloroethene	98	93	66-128	yes	5.6	20	yes
	Toluene	103	98	77-122	yes	5.2	20	yes
	trans-1,2-Dichloroethene	100	92	63-137	yes	8.1	20	yes
	trans-1,3-Dichloropropene	105	101	59-135	yes	3.9	20	yes
	Trichloroethene	94	83	70-127	yes	12.4	20	yes
	Trichlorofluoromethane	99	94	57-129	yes	5.3	20	yes
ACW PTI-04/16/09	Vinyl chloride	106	98	50-134	yes	7.8	20	yes
(continued)	Xylenes, total	97	98	76-128	yes	0.7	20	yes
MAFB-047	1,1-Dichloroethene	127	124	68-130	yes	2.4	20	yes
	1,2-Dichloroethane	94	89	69-132	yes	5.8	20	yes
	1,2-Dichloropropane	99	99	75-125	yes	0.4	20	yes
	1,4-Dichlorobenzene	89	89	74-123	yes	0.0	20	yes
	Carbon tetrachloride	104	104	66-138	yes	0.0	20	yes
	Chloroform	99	100	69-128	yes	0.8	20	yes
	Chloromethane	68	69	56-131	yes	1.3	20	yes
	cis-1,2-Dichloroethene	106	108	72-126	yes	1.9	20	yes
	Tetrachloroethene	105	106	66-128	yes	1.0	20	yes
	Trichloroethene	104	101	70-127	yes	2.9	20	yes
	Vinyl chloride	94	90	50-134	yes	4.1	20	yes
MAFB-133	1,1-Dichloroethene	84	80	68-130	yes	4.0	20	yes
	1,2-Dichloroethane	81	75	69-132	yes	7.7	20	yes
	1,2-Dichloropropane	89	76	75-125	yes	16.1	20	yes
	1,4-Dichlorobenzene	81	83	74-123	yes	1.8	20	yes
	Carbon tetrachloride	86	84	66-138	yes	2.4	20	yes

Mather AR # 2970.1 Page 297 of 1088

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Chloroform	86	82	69-128	yes	4.9	20	yes
	Chloromethane	83	84	56-131	yes	0.2	20	yes
	cis-1,2-Dichloroethene	88	80	72-126	yes	9.5	20	yes
	Tetrachloroethene	81	78	66-128	yes	3.8	20	yes
	Trichloroethene	79	73	70-127	yes	8.0	20	yes
	Vinyl chloride	107	95	50-134	yes	11.9	20	yes
MAFB-194	1,1-Dichloroethene	98	90	68-130	yes	9.4	20	yes
	1,2-Dichloroethane	98	97	69-132	yes	0.8	20	yes
MAFB-194	1,2-Dichloropropane	110	114	75-125	yes	3.6	20	yes
(continued)	1,4-Dichlorobenzene	95	92	74-123	yes	3.4	20	yes
	Carbon tetrachloride	104	114	66-138	yes	9.2	20	yes
	Chloroform	107	104	69-128	yes	2.8	20	yes
	Chloromethane	97	99	56-131	yes	1.5	20	yes
	cis-1,2-Dichloroethene	112	109	72-126	yes	2.7	20	yes
	Tetrachloroethene	102	96	66-128	yes	6.0	20	yes
	Trichloroethene	99	90	70-127	yes	9.5	20	yes
	Vinyl chloride	95	87	50-134	yes	8.5	20	yes
MAFB-200	1,1-Dichloroethene	95	96	68-130	yes	0.8	20	yes
	1,2-Dichloroethane	97	90	69-132	yes	8.0	20	yes
	1,2-Dichloropropane	92	87	75-125	yes	6.2	20	yes
	1,4-Dichlorobenzene	99	96	74-123	yes	2.6	20	yes
	Carbon tetrachloride	87	88	66-138	yes	1.5	20	yes
	Chloroform	104	96	69-128	yes	8.2	20	yes
	Chloromethane	94	89	56-131	yes	6.0	20	yes
	cis-1,2-Dichloroethene	97	91	72-126	yes	6.3	20	yes
	Tetrachloroethene	93	83	66-128	yes	11.2	20	yes
	Trichloroethene	99	91	70-127	yes	8.4	20	yes
	Vinyl chloride	96	84	50-134	yes	13.2	20	yes
MAFB-215	1,1-Dichloroethene	82	90	68-130	yes	8.5	20	yes
	1,2-Dichloroethane	91	85	69-132	yes	7.4	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,2-Dichloropropane	84	84	75-125	yes	0.7	20	yes
	1,4-Dichlorobenzene	91	88	74-123	yes	3.5	20	yes
	Carbon tetrachloride	72	70	66-138	yes	3.1	20	yes
	Chloroform	93	92	69-128	yes	0.9	20	yes
	Chloromethane	96	95	56-131	yes	1.5	20	yes
MAFB-215	cis-1,2-Dichloroethene	84	86	72-126	yes	2.1	20	yes
(continued)	Tetrachloroethene	77	72	66-128	yes	6.7	20	yes
	Trichloroethene	68	66	70-127	no	3.0	20	yes
	Vinyl chloride	85	85	50-134	yes	0.6	20	yes
MAFB-216	1,1-Dichloroethene	86	80	68-130	yes	7.4	20	yes
	1,2-Dichloroethane	84	84	69-132	yes	0.1	20	yes
	1,2-Dichloropropane	79	82	75-125	yes	4.2	20	yes
	1,4-Dichlorobenzene	86	86	74-123	yes	0.1	20	yes
	Carbon tetrachloride	77	84	66-138	yes	8.7	20	yes
	Chloroform	89	87	69-128	yes	2.7	20	yes
	Chloromethane	91	79	56-131	yes	14.3	20	yes
	cis-1,2-Dichloroethene	91	91	72-126	yes	0.4	20	yes
	Tetrachloroethene	82	83	66-128	yes	1.3	20	yes
	Trichloroethene	78	70	70-127	yes	10.8	20	yes
	Vinyl chloride	114	108	50-134	yes	5.4	20	yes
MAFB-265	1,1-Dichloroethene	93	93	68-130	yes	0.3	20	yes
	1,2-Dichloroethane	95	95	69-132	yes	0.1	20	yes
	1,2-Dichloropropane	98	102	75-125	yes	3.9	20	yes
	1,4-Dichlorobenzene	92	94	74-123	yes	1.8	20	yes
	Carbon tetrachloride	84	84	66-138	yes	0.0	20	yes
	Chloroform	102	102	69-128	yes	0.0	20	yes
	Chloromethane	87	92	56-131	yes	4.8	20	yes
	cis-1,2-Dichloroethene	109	108	72-126	yes	0.9	20	yes
	Tetrachloroethene	98	96	66-128	yes	2.1	20	yes
	Trichloroethene	78	81	70-127	yes	3.8	20	yes
	Vinyl chloride	98	99	50-134	yes	0.2	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-292	1,1-Dichloroethene	85	91	68-130	yes	6.5	20	yes
	1,2-Dichloroethane	85	91	69-132	yes	7.9	20	yes
	1,2-Dichloropropane	92	92	75-125	yes	0.4	20	yes
	1,4-Dichlorobenzene	82	81	74-123	yes	1.2	20	yes
	Carbon tetrachloride	101	104	66-138	yes	2.9	20	yes
	Chloroform	90	99	69-128	yes	9.0	20	yes
	Chloromethane	83	91	56-131	yes	8.9	20	yes
	cis-1,2-Dichloroethene	94	99	72-126	yes	4.4	20	yes
	Tetrachloroethene	88	91	66-128	yes	3.9	20	yes
	Trichloroethene	85	91	70-127	yes	7.5	20	yes
	Vinyl chloride	86	95	50-134	yes	9.4	20	yes
MAFB-301	1,1-Dichloroethene	91	94	68-130	yes	2.6	20	yes
	1,2-Dichloroethane	93	101	69-132	yes	8.3	20	yes
	1,2-Dichloropropane	109	120	75-125	yes	9.6	20	yes
	1,4-Dichlorobenzene	99	97	74-123	yes	1.3	20	yes
	Carbon tetrachloride	113	106	66-138	yes	6.4	20	yes
	Chloroform	108	114	69-128	yes	5.4	20	yes
	Chloromethane	104	112	56-131	yes	7.4	20	yes
	cis-1,2-Dichloroethene	110	114	72-126	yes	3.6	20	yes
	Tetrachloroethene	98	96	66-128	yes	2.0	20	yes
	Trichloroethene	96	99	70-127	yes	3.1	20	yes
	Vinyl chloride	88	87	50-134	yes	0.9	20	yes
MAFB-352D	1,1-Dichloroethene	92	93	68-130	yes	0.9	20	yes
	1,2-Dichloroethane	96	107	69-132	yes	11.3	20	yes
	1,2-Dichloropropane	103	106	75-125	yes	2.9	20	yes
	1,4-Dichlorobenzene	114	115	74-123	yes	0.9	20	yes
	Carbon tetrachloride	98	94	66-138	yes	4.6	20	yes
MAFB-352D	Chloroform	112	114	69-128	yes	1.8	20	yes
(continued)	Chloromethane	89	110	56-131	yes	20.7	20	no
	cis-1,2-Dichloroethene	105	106	72-126	yes	1.0	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Tetrachloroethene	113	106	66-128	yes	6.4	20	yes
	Trichloroethene	113	112	70-127	yes	0.9	20	yes
	Vinyl chloride	85	88	50-134	yes	3.5	20	yes
MAFB-368D	1,1-Dichloroethene	94	88	68-130	yes	6.5	20	yes
	1,2-Dichloroethane	90	85	69-132	yes	5.0	20	yes
	1,2-Dichloropropane	102	100	75-125	yes	2.2	20	yes
	1,4-Dichlorobenzene	92	88	74-123	yes	4.2	20	yes
	Carbon tetrachloride	98	99	66-138	yes	1.0	20	yes
	Chloroform	99	97	69-128	yes	1.7	20	yes
	Chloromethane	96	98	56-131	yes	2.0	20	yes
	cis-1,2-Dichloroethene	102	103	72-126	yes	1.0	20	yes
	Tetrachloroethene	97	92	66-128	yes	5.3	20	yes
	Trichloroethene	95	92	70-127	yes	3.4	20	yes
	Vinyl chloride	92	87	50-134	yes	5.3	20	yes
MAFB-373D	1,1-Dichloroethene	126	124	68-130	yes	1.6	20	yes
	1,2-Dichloroethane	137	127	69-132	no	7.6	20	yes
	1,2-Dichloropropane	125	126	75-125	no	0.8	20	yes
	1,4-Dichlorobenzene	85	88	74-123	yes	3.6	20	yes
	Carbon tetrachloride	131	128	66-138	yes	2.3	20	yes
	Chloroform	130	129	69-128	no	0.8	20	yes
	Chloromethane	113	108	56-131	yes	4.5	20	yes
	cis-1,2-Dichloroethene	125	120	72-126	yes	4.1	20	yes
	Tetrachloroethene	96	95	66-128	yes	1.3	20	yes
	Trichloroethene	121	124	70-127	yes	2.5	20	yes
MAFB-373D (continued)	Vinyl chloride	122	121	50-134	yes	0.8	20	yes
MAFB-378D	1,1-Dichloroethene	91	85	68-130	yes	6.7	20	yes
	1,2-Dichloroethane	106	90	69-132	yes	16.0	20	yes
	1,2-Dichloropropane	94	90	75-125	yes	4.4	20	yes
	1,4-Dichlorobenzene	104	93	74-123	yes	11.5	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Carbon tetrachloride	111	97	66-138	yes	13.1	20	yes
	Chloroform	99	95	69-128	yes	3.6	20	yes
	Chloromethane	94	89	56-131	yes	6.1	20	yes
	cis-1,2-Dichloroethene	85	75	72-126	yes	12.6	20	yes
	Tetrachloroethene	95	86	66-128	yes	9.6	20	yes
	Trichloroethene	86	87	70-127	yes	1.7	20	yes
	Vinyl chloride	105	98	50-134	yes	7.0	20	yes
MAFB-434Bs	1,1,1-Trichloroethane	82	87	67-132	yes	5.8	20	yes
	1,1,2,2-Tetrachloroethane	105	98	63-128	yes	7.2	20	yes
	1,1,2-Trichloroethane	99	100	75-125	yes	0.9	20	yes
	1,1-Dichloroethane	96	103	69-133	yes	7.0	20	yes
	1,1-Dichloroethene	96	95	68-130	yes	1.3	20	yes
	1,2-Dichlorobenzene	95	94	71-122	yes	1.9	20	yes
	1,2-Dichloroethane	98	98	69-132	yes	0.1	20	yes
	1,2-Dichloropropane	89	93	75-125	yes	4.5	20	yes
	1,3-Dichlorobenzene	95	89	75-124	yes	6.7	20	yes
	1,4-Dichlorobenzene	95	92	74-123	yes	3.5	20	yes
	Benzene	97	98	81-122	yes	0.9	20	yes
	Bromodichloromethane	101	111	76-121	yes	9.4	20	yes
	Bromoform	103	95	69-128	yes	7.8	20	yes
	Bromomethane	95	89	30-141	yes	7.0	20	yes
MAFB-434Bs (continued)	Carbon tetrachloride	81	90	66-138	yes	11.1	20	yes
	Chlorobenzene	95	93	81-122	yes	2.0	20	yes
	Chloroethane	113	117	58-133	yes	3.5	20	yes
	Chloroform	98	105	69-128	yes	7.1	20	yes
	Chloromethane	92	98	56-131	yes	6.7	20	yes
	cis-1,2-Dichloroethene	98	96	72-126	yes	2.1	20	yes
	cis-1,3-Dichloropropene	95	92	69-131	yes	3.8	20	yes
	Dibromochloromethane	98	91	66-133	yes	7.5	20	yes
	Dichlorodifluoromethane	112	113	30-153	yes	0.9	20	yes
	Ethylbenzene	95	90	73-127	yes	5.3	20	yes
	Methylene chloride	97	103	63-137	yes	5.7	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Tetrachloroethene	91	88	66-128	yes	3.0	20	yes
	Toluene	97	97	77-122	yes	0.3	20	yes
	trans-1,2-Dichloroethene	95	104	63-137	yes	9.6	20	yes
	trans-1,3-Dichloropropene	97	94	59-135	yes	3.2	20	yes
	Trichloroethene	100	100	70-127	yes	0.5	20	yes
	Trichlorofluoromethane	104	108	57-129	yes	3.8	20	yes
	Vinyl chloride	97	110	50-134	yes	12.4	20	yes
	Xylenes, total	93	90	76-128	yes	3.0	20	yes
MBS EW-1Bu	1,1-Dichloroethene	102	101	68-130	yes	1.0	20	yes
	1,2-Dichloroethane	93	96	69-132	yes	2.8	20	yes
	1,2-Dichloropropane	100	101	75-125	yes	1.0	20	yes
	1,4-Dichlorobenzene	97	95	74-123	yes	1.8	20	yes
	Carbon tetrachloride	91	96	66-138	yes	5.3	20	yes
	Chloroform	103	104	69-128	yes	1.0	20	yes
	Chloromethane	102	110	56-131	yes	7.6	20	yes
	cis-1,2-Dichloroethene	109	111	72-126	yes	1.8	20	yes
	Tetrachloroethene	103	97	66-128	yes	5.9	20	yes
MBS EW-1Bu	Trichloroethene	97	98	70-127	yes	1.0	20	yes
(continued)	Vinyl chloride	103	98	50-134	yes	4.9	20	yes
MBS EW-3B	1,1-Dichloroethene	98	95	68-130	yes	3.6	20	yes
	1,2-Dichloroethane	94	94	69-132	yes	0.3	20	yes
	1,2-Dichloropropane	105	103	75-125	yes	1.9	20	yes
	1,4-Dichlorobenzene	97	97	74-123	yes	0.7	20	yes
	Carbon tetrachloride	109	97	66-138	yes	11.9	20	yes
	Chloroform	105	103	69-128	yes	1.9	20	yes
	Chloromethane	98	102	56-131	yes	4.1	20	yes
	cis-1,2-Dichloroethene	111	109	72-126	yes	1.8	20	yes
	Tetrachloroethene	80	68	66-128	yes	16.2	20	yes
	Trichloroethene	94	90	70-127	yes	4.4	20	yes
	Vinyl chloride	90	85	50-134	yes	5.8	20	yes

Mather AR # 2970.1 Page 303 of 1088

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MBS EW-10B	1,1,1-Trichloroethane	109	98	67-132	yes	10.3	20	yes
	1,1,2,2-Tetrachloroethane	101	108	63-128	yes	6.7	20	yes
	1,1,2-Trichloroethane	102	104	75-125	yes	1.9	20	yes
	1,1-Dichloroethane	110	104	69-133	yes	5.6	20	yes
	1,1-Dichloroethene	112	105	68-130	yes	6.5	20	yes
	1,2-Dichlorobenzene	85	93	71-122	yes	9.2	20	yes
	1,2-Dichloroethane	106	100	69-132	yes	5.8	20	yes
	1,2-Dichloropropane	110	109	75-125	yes	0.9	20	yes
	1,3-Dichlorobenzene	86	87	75-124	yes	1.2	20	yes
	1,4-Dichlorobenzene	87	91	74-123	yes	4.6	20	yes
	Benzene	105	100	81-122	yes	5.0	20	yes
	Bromodichloromethane	115	106	76-121	yes	8.1	20	yes
	Bromoform	83	87	69-128	yes	3.9	20	yes
	Bromomethane	65	80	30-141	yes	20.3	20	no
MBS EW-10B (continued)	Carbon tetrachloride	118	107	66-138	yes	9.8	20	yes
	Chlorobenzene	100	97	81-122	yes	3.2	20	yes
	Chloroethane	85	80	58-133	yes	5.3	20	yes
	Chloroform	110	104	69-128	yes	5.6	20	yes
	Chloromethane	99	90	56-131	yes	9.8	20	yes
	cis-1,2-Dichloroethene	105	101	72-126	yes	3.9	20	yes
	cis-1,3-Dichloropropene	101	99	69-131	yes	1.8	20	yes
	Dibromochloromethane	85	81	66-133	yes	4.8	20	yes
	Dichlorodifluoromethane	109	87	30-153	yes	22.2	20	no
	Ethylbenzene	105	98	73-127	yes	6.7	20	yes
	Methylene chloride	107	101	63-137	yes	5.8	20	yes
	Tetrachloroethene	92	69	66-128	yes	28.6*	20	no
	Toluene	106	98	77-122	yes	7.5	20	yes
	trans-1,2-Dichloroethene	100	96	63-137	yes	4.5	20	yes
	trans-1,3-Dichloropropene	94	96	59-135	yes	2.3	20	yes
	Trichloroethene	101	91	70-127	yes	11.0	20	yes
	Trichlorofluoromethane	96	90	57-129	yes	6.1	20	yes
	Vinyl chloride	103	98	50-134	yes	4.9	20	yes
	Xylenes, total	104	96	76-128	yes	7.7	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MBS PTI-04/16/09	1,1,1-Trichloroethane	98	103	67-132	yes	5.4	20	yes
	1,1,2,2-Tetrachloroethane	107	106	63-128	yes	0.9	20	yes
	1,1,2-Trichloroethane	103	110	75-125	yes	6.6	20	yes
	1,1-Dichloroethane	103	108	69-133	yes	4.7	20	yes
	1,1-Dichloroethene	99	104	68-130	yes	5.3	20	yes
	1,2-Dichlorobenzene	79	86	71-122	yes	8.1	20	yes
	1,2-Dichloroethane	113	111	69-132	yes	1.8	20	yes
	1,2-Dichloropropane	107	109	75-125	yes	1.9	20	yes
	1,3-Dichlorobenzene	81	83	75-124	yes	2.1	20	yes
MBS PTI-04/16/09	1,4-Dichlorobenzene	81	85	74-123	yes	4.8	20	yes
(continued)	Benzene	99	103	81-122	yes	3.7	20	yes
	Bromodichloromethane	113	115	76-121	yes	1.8	20	yes
	Bromoform	87	87	69-128	yes	0.7	20	yes
	Bromomethane	67	83	30-141	yes	20.5	20	no
	Carbon tetrachloride	100	101	66-138	yes	1.0	20	yes
	Chlorobenzene	94	101	81-122	yes	7.5	20	yes
	Chloroethane	88	95	58-133	yes	7.2	20	yes
	Chloroform	106	112	69-128	yes	5.5	20	yes
	Chloromethane	100	111	56-131	yes	10.4	20	yes
	cis-1,2-Dichloroethene	98	109	72-126	yes	10.7	20	yes
	cis-1,3-Dichloropropene	110	108	69-131	yes	1.8	20	yes
	Dibromochloromethane	82	87	66-133	yes	6.1	20	yes
	Dichlorodifluoromethane	114	110	30-153	yes	3.6	20	yes
	Ethylbenzene	97	102	73-127	yes	5.2	20	yes
	Methylene chloride	89	97	63-137	yes	8.6	20	yes
	Tetrachloroethene	71	84	66-128	yes	16.8	20	yes
	Toluene	98	101	77-122	yes	3.4	20	yes
	trans-1,2-Dichloroethene	92	98	63-137	yes	5.7	20	yes
	trans-1,3-Dichloropropene	105	102	59-135	yes	2.9	20	yes
	Trichloroethene	85	92	70-127	yes	7.9	20	yes
	Trichlorofluoromethane	104	112	57-129	yes	7.4	20	yes
	Vinyl chloride	104	113	50-134	yes	8.3	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Xylenes, total	95	101	76-128	yes	5.8	20	yes
MBS PZ-44	1,1-Dichloroethene	97	95	68-130	yes	2.1	20	yes
	1,2-Dichloroethane	93	90	69-132	yes	3.9	20	yes
	1,2-Dichloropropane	94	91	75-125	yes	4.0	20	yes
	1,4-Dichlorobenzene	73	80	74-123	no	8.5	20	yes
MBS PZ-44	Carbon tetrachloride	108	101	66-138	yes	6.7	20	yes
(continued)	Chloroform	93	93	69-128	yes	0.2	20	yes
	Chloromethane	78	85	56-131	yes	9.6	20	yes
	cis-1,2-Dichloroethene	94	88	72-126	yes	6.2	20	yes
	Tetrachloroethene	96	90	66-128	yes	6.0	20	yes
	Trichloroethene	93	87	70-127	yes	6.7	20	yes
	Vinyl chloride	104	103	50-134	yes	1.0	20	yes
OFB-17	1,1-Dichloroethene	105	100	68-130	yes	4.9	20	yes
	1,2-Dichloroethane	108	100	69-132	yes	8.0	20	yes
	1,2-Dichloropropane	96	93	75-125	yes	2.8	20	yes
	1,4-Dichlorobenzene	87	81	74-123	yes	6.9	20	yes
	Carbon tetrachloride	113	93	66-138	yes	19.3	20	yes
	Chloroform	104	97	69-128	yes	6.7	20	yes
	Chloromethane	90	86	56-131	yes	4.5	20	yes
	cis-1,2-Dichloroethene	99	95	72-126	yes	3.9	20	yes
	Tetrachloroethene	98	99	66-128	yes	1.4	20	yes
	Trichloroethene	98	99	70-127	yes	0.2	20	yes
	Vinyl chloride	105	101	50-134	yes	3.9	20	yes
OFB-69	1,1-Dichloroethene	96	119	68-130	yes	21.3	20	no
	1,2-Dichloroethane	78	100	69-132	yes	23.8	20	no
	1,2-Dichloropropane	89	116	75-125	yes	26.9	20	no
	1,4-Dichlorobenzene	89	92	74-123	yes	3.5	20	yes
	Carbon tetrachloride	91	106	66-138	yes	15.6	20	yes
	Chloroform	85	114	69-128	yes	29.3	20	no
	Chloromethane	95	124	56-131	yes	26.4	20	no

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	cis-1,2-Dichloroethene	87	116	72-126	yes	28.8	20	no
	Tetrachloroethene	76	82	66-128	yes	7.8	20	yes
OFB-69	Trichloroethene	81	109	70-127	yes	29.5	20	no
(continued)	Vinyl chloride	100	120	50-134	yes	18.5	20	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Due to limitations with the current Electronic Data Deliverable (EDD) format, RPDs in this table are calculated using MS/MSD percent recoveries, rather than actual observed values. RPDs marked with an "*" differ from the actual observed RPD and should not be used for validation purposes.

Mather AR # 2970.1 Page 307 of 1088

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-324	1,1,1,2-Tetrachloroethane	100	106	80-120	yes	5.8	20	yes
	1,1,1-Trichloroethane	116	110	80-120	yes	5.3	20	yes
	1,1,2,2-Tetrachloroethane	103	106	80-120	yes	2.9	20	yes
	1,1,2-Trichloroethane	103	106	80-120	yes	2.9	20	yes
	1,1-Dichloroethane	94	93	80-120	yes	1.0	20	yes
	1,1-Dichloroethene	105	102	80-120	yes	2.9	20	yes
	1,1-Dichloropropene	94	91	80-120	yes	3.3	20	yes
	1,2,3-Trichlorobenzene	89	94	80-120	yes	5.3	20	yes
	1,2,3-Trichloropropane	91	100	80-120	yes	9.3	20	yes
	1,2,4-Trichlorobenzene	93	94	80-120	yes	1.1	20	yes
	1,2,4-Trimethylbenzene	96	99	80-120	yes	2.9	20	yes
	1,2-Dibromo-3-chloropropane	98	106	80-120	yes	7.6	20	yes
	1,2-Dibromoethane	107	117	80-120	yes	8.9	20	yes
	1,2-Dichlorobenzene	89	98	80-120	yes	10.2	20	yes
	1,2-Dichloroethane	101	102	80-120	yes	1.0	20	yes
	1,2-Dichloropropane	93	91	80-120	yes	1.2	20	yes
	1,3,5-Trimethylbenzene	99	104	80-120	yes	4.6	20	yes
	1,3-Dichlorobenzene	97	98	80-120	yes	0.9	20	yes
	1,3-Dichloropropane	96	104	80-120	yes	7.8	20	yes
	1,4-Dichlorobenzene	93	94	80-120	yes	1.4	20	yes
	2,2-Dichloropropane	111	94	80-120	yes	16.6	20	yes
	2-Chlorotoluene	95	93	80-120	yes	1.4	20	yes
	4-Chlorotoluene	93	97	80-120	yes	4.4	20	yes
	Benzene	95	91	80-120	yes	4.5	20	yes
	Bromobenzene	96	95	80-120	yes	0.8	20	yes
	Bromochloromethane	89	92	80-120	yes	3.3	20	yes
	Bromodichloromethane	102	105	80-120	yes	2.9	20	yes
	Bromoform	103	114	80-120	yes	10.1	20	yes
	Bromomethane	102	102	80-120	yes	0.0	20	yes
MAFB-324 (continued)	Carbon tetrachloride	90	93	80-120	yes	3.8	20	yes
	Chlorobenzene	87	94	80-120	yes	7.5	20	yes
	Chloroethane	108	105	80-120	yes	2.8	20	yes
	Chloroform	94	93	80-120	yes	1.4	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Chloromethane	101	100	80-120	yes	1.5	20	yes
	cis-1,2-Dichloroethene	89	92	80-120	yes	3.3	20	yes
	cis-1,3-Dichloropropene	110	122	80-120	no	10.3	20	yes
	Dibromochloromethane	109	114	80-120	yes	4.5	20	yes
	Dibromomethane	101	103	80-120	yes	2.0	20	yes
	Dichlorodifluoromethane	102	101	80-120	yes	1.0	20	yes
	Ethylbenzene	91	95	80-120	yes	4.3	20	yes
	Hexachlorobutadiene	96	96	80-120	yes	0.3	20	yes
	Isopropylbenzene	100	99	80-120	yes	1.4	20	yes
	Methylene chloride	100	105	80-120	yes	5.0	20	yes
	n-Butylbenzene	94	98	80-120	yes	3.4	20	yes
	n-Propylbenzene	95	98	80-120	yes	3.1	20	yes
	Naphthalene	87	99	80-120	yes	12.6	20	yes
	p-Isopropyltoluene	96	96	80-120	yes	0.1	20	yes
	sec-Butylbenzene	98	99	80-120	yes	0.1	20	yes
	Styrene	101	100	80-120	yes	1.2	20	yes
	t-Butylbenzene	93	95	80-120	yes	2.0	20	yes
	Tetrachloroethene	89	88	80-120	yes	1.3	20	yes
	Toluene	91	93	80-120	yes	1.8	20	yes
	trans-1,2-Dichloroethene	91	92	80-120	yes	1.6	20	yes
	trans-1,3-Dichloropropene	112	138	80-120	no	20.8	20	no
	Trichloroethene	92	88	80-120	yes	4.7	20	yes
	Trichlorofluoromethane	99	97	80-120	yes	1.6	20	yes
	Vinyl chloride	125	100	80-120	no	22.5	20	no
	Xylenes, total	93	94	80-120	yes	1.7	20	yes
OFB-27	1,1,1,2-Tetrachloroethane	111	107	80-120	yes	3.7	20	yes
	1,1,1-Trichloroethane	111	109	80-120	yes	1.8	20	yes
	1,1,2,2-Tetrachloroethane	111	106	80-120	yes	4.6	20	yes
	1,1,2-Trichloroethane	111	106	80-120	yes	4.6	20	yes
	1,1-Dichloroethane	106	101	80-120	yes	4.8	20	yes
	1,1-Dichloroethene	110	103	80-120	yes	6.6	20	yes
	1,1-Dichloropropene	105	103	80-120	yes	1.9	20	yes
	1,2,3-Trichlorobenzene	100	96	80-120	yes	3.9	20	yes

Mather AR # 2970.1 Page 309 of 1088

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,2,3-Trichloropropane	114	106	80-120	yes	7.3	20	yes
	1,2,4-Trichlorobenzene	94	90	80-120	yes	4.9	20	yes
	1,2,4-Trimethylbenzene	107	103	80-120	yes	3.8	20	yes
	1,2-Dibromo-3-chloropropane	94	101	80-120	yes	7.7	20	yes
	1,2-Dibromoethane	116	109	80-120	yes	6.2	20	yes
	1,2-Dichlorobenzene	100	98	80-120	yes	2.0	20	yes
	1,2-Dichloroethane	105	100	80-120	yes	5.0	20	yes
	1,2-Dichloropropane	103	101	80-120	yes	2.0	20	yes
	1,3,5-Trimethylbenzene	108	103	80-120	yes	4.7	20	yes
	1,3-Dichlorobenzene	106	101	80-120	yes	4.8	20	yes
	1,3-Dichloropropane	102	99	80-120	yes	2.9	20	yes
	1,4-Dichlorobenzene	107	104	80-120	yes	2.8	20	yes
	2,2-Dichloropropane	77	65	80-120	no	16.7	20	yes
	2-Chlorotoluene	107	99	80-120	yes	7.7	20	yes
	4-Chlorotoluene	104	103	80-120	yes	1.0	20	yes
	Benzene	103	100	80-120	yes	3.4	20	yes
	Bromobenzene	111	107	80-120	yes	3.7	20	yes
	Bromochloromethane	115	108	80-120	yes	6.3	20	yes
	Bromodichloromethane	111	106	80-120	yes	4.6	20	yes
	Bromoform	108	106	80-120	yes	1.9	20	yes
	Bromomethane	112	102	80-120	yes	9.4	20	yes
OFB-27	Carbon tetrachloride	104	96	80-120	yes	7.7	20	yes
(continued)	Chlorobenzene	105	104	80-120	yes	1.0	20	yes
	Chloroethane	88	83	80-120	yes	5.5	20	yes
	Chloroform	104	103	80-120	yes	1.0	20	yes
	Chloromethane	94	85	80-120	yes	9.8	20	yes
	cis-1,2-Dichloroethene	105	104	80-120	yes	1.0	20	yes
	cis-1,3-Dichloropropene	104	97	80-120	yes	7.2	20	yes
	Dibromochloromethane	107	113	80-120	yes	5.5	20	yes
	Dibromomethane	99	105	80-120	yes	6.3	20	yes
	Dichlorodifluoromethane	116	110	80-120	yes	5.3	20	yes
	Ethylbenzene	109	102	80-120	yes	6.6	20	yes
	Hexachlorobutadiene	100	81	80-120	yes	21.2	20	no

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Isopropylbenzene	107	103	80-120	yes	3.8	20	yes
	Methylene chloride	103	101	80-120	yes	2.0	20	yes
	n-Butylbenzene	102	99	80-120	yes	2.7	20	yes
	n-Propylbenzene	108	102	80-120	yes	5.7	20	yes
	Naphthalene	100	103	80-120	yes	3.3	20	yes
	p-Isopropyltoluene	104	101	80-120	yes	2.9	20	yes
	sec-Butylbenzene	104	102	80-120	yes	1.9	20	yes
	Styrene	110	106	80-120	yes	3.7	20	yes
	t-Butylbenzene	107	103	80-120	yes	3.8	20	yes
	Tetrachloroethene	107	103	80-120	yes	3.8	20	yes
	Toluene	109	105	80-120	yes	3.7	20	yes
	trans-1,2-Dichloroethene	106	98	80-120	yes	7.6	20	yes
	trans-1,3-Dichloropropene	100	96	80-120	yes	3.5	20	yes
	Trichloroethene	107	107	80-120	yes	0.0	20	yes
	Trichlorofluoromethane	108	102	80-120	yes	5.7	20	yes
	Vinyl chloride	99	92	80-120	yes	7.4	20	yes
	Xylenes, total	110	105	80-120	yes	4.7	20	yes
OFB-52	1,1,1,2-Tetrachloroethane	111	109	80-120	yes	1.8	20	yes
	1,1,1-Trichloroethane	114	111	80-120	yes	2.7	20	yes
	1,1,2,2-Tetrachloroethane	113	114	80-120	yes	0.9	20	yes
	1,1,2-Trichloroethane	113	114	80-120	yes	0.9	20	yes
	1,1-Dichloroethane	111	108	80-120	yes	2.7	20	yes
	1,1-Dichloroethene	111	107	80-120	yes	3.7	20	yes
	1,1-Dichloropropene	107	106	80-120	yes	0.9	20	yes
	1,2,3-Trichlorobenzene	94	99	80-120	yes	5.4	20	yes
	1,2,3-Trichloropropane	107	106	80-120	yes	0.9	20	yes
	1,2,4-Trichlorobenzene	90	96	80-120	yes	6.5	20	yes
	1,2,4-Trimethylbenzene	106	106	80-120	yes	0.0	20	yes
	1,2-Dibromo-3-chloropropane	86	113	80-120	yes	27.4	20	no
	1,2-Dibromoethane	113	118	80-120	yes	4.3	20	yes
	1,2-Dichlorobenzene	99	101	80-120	yes	2.5	20	yes
	1,2-Dichloroethane	113	110	80-120	yes	2.7	20	yes
	1,2-Dichloropropane	104	106	80-120	yes	1.9	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,3,5-Trimethylbenzene	105	103	80-120	yes	1.9	20	yes
	1,3-Dichlorobenzene	107	109	80-120	yes	1.9	20	yes
	1,3-Dichloropropane	104	107	80-120	yes	2.8	20	yes
	1,4-Dichlorobenzene	107	110	80-120	yes	2.8	20	yes
	2,2-Dichloropropane	83	76	80-120	no	9.3	20	yes
	2-Chlorotoluene	108	106	80-120	yes	1.9	20	yes
	4-Chlorotoluene	106	104	80-120	yes	1.9	20	yes
	Benzene	105	104	80-120	yes	1.0	20	yes
	Bromobenzene	109	108	80-120	yes	0.9	20	yes
	Bromochloromethane	112	115	80-120	yes	2.6	20	yes
	Bromodichloromethane	113	114	80-120	yes	0.9	20	yes
	Bromoform	106	111	80-120	yes	4.6	20	yes
	Bromomethane	94	96	80-120	yes	2.2	20	yes
OFB-52	Carbon tetrachloride	105	95	80-120	yes	9.8	20	yes
(continued)	Chlorobenzene	107	109	80-120	yes	1.9	20	yes
	Chloroethane	87	86	80-120	yes	1.0	20	yes
	Chloroform	115	109	80-120	yes	5.4	20	yes
	Chloromethane	84	85	80-120	yes	0.6	20	yes
	cis-1,2-Dichloroethene	109	104	80-120	yes	4.7	20	yes
	cis-1,3-Dichloropropene	104	106	80-120	yes	1.9	20	yes
	Dibromochloromethane	116	123	80-120	no	5.9	20	yes
	Dibromomethane	107	108	80-120	yes	0.9	20	yes
	Dichlorodifluoromethane	107	111	80-120	yes	3.7	20	yes
	Ethylbenzene	107	106	80-120	yes	0.9	20	yes
	Hexachlorobutadiene	69	76	80-120	no	9.8	20	yes
	Isopropylbenzene	106	106	80-120	yes	0.0	20	yes
	Methylene chloride	116	115	80-120	yes	0.9	20	yes
	n-Butylbenzene	103	99	80-120	yes	4.0	20	yes
	n-Propylbenzene	108	103	80-120	yes	4.7	20	yes
	Naphthalene	95	103	80-120	yes	7.9	20	yes
	p-Isopropyltoluene	101	100	80-120	yes	1.0	20	yes
	sec-Butylbenzene	102	100	80-120	yes	2.4	20	yes
	Styrene	109	110	80-120	yes	0.9	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	t-Butylbenzene	109	107	80-120	yes	1.9	20	yes
	Tetrachloroethene	102	104	80-120	yes	1.9	20	yes
	Toluene	109	106	80-120	yes	2.8	20	yes
	trans-1,2-Dichloroethene	106	100	80-120	yes	5.8	20	yes
	trans-1,3-Dichloropropene	103	104	80-120	yes	1.0	20	yes
	Trichloroethene	109	108	80-120	yes	0.9	20	yes
	Trichlorofluoromethane	105	100	80-120	yes	4.9	20	yes
	Vinyl chloride	99	94	80-120	yes	4.8	20	yes
	Xylenes, total	109	107	80-120	yes	1.9	20	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Mather AR # 2970.1 Page 313 of 1088

TABLE 5-3.3

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-04/16/09	TPH, gasoline-range	101	100	67-136	yes	1.0	30	yes
7-PZ-37P	TPH, gasoline-range	99	94	67-136	yes	5.2	30	yes
MBS PTI-04/16/09	TPH, gasoline-range	110	112	67-136	yes	1.8	30	yes

Notes:
RPD - Relative Percent Difference

TABLE 5-3.4

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-04/16/09	TPH, diesel-range	70	69	61-143	yes	1.4	30	yes
7-PZ-37P	TPH, diesel-range	71	72	61-143	yes	2.1	30	yes
ACW PTE-04/16/09	TPH, diesel-range	44	57	61-143	no	25.0	30	yes
MBS PTI-04/16/09	TPH, diesel-range	68	57	61-143	no	18.7	30	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

TABLE 5-3.5

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8081 - PESTICIDES
USEPA METHOD 8082 - POLYCHLORINATED BIPHENYLS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	SW8081							
7-PZ-37P	Aldrin	54	51	42-138	yes	5.2	30	yes
	Alpha endosulfan	80	78	49-120	yes	2.7	30	yes
	alpha-BHC	81	78	60-128	yes	3.4	30	yes
	alpha-Chlordane	69	68	63-123	yes	1.8	30	yes
	Beta endosulfan	73	72	42-130	yes	1.0	30	yes
	beta-BHC	79	77	66-126	yes	2.7	30	yes
	delta-BHC	65	64	46-136	yes	1.4	30	yes
	Dieldrin	78	75	62-129	yes	4.6	30	yes
	Endosulfan sulfate	73	71	54-137	yes	2.9	30	yes
	Endrin	78	77	56-134	yes	1.8	30	yes
	Endrin aldehyde	78	76	56-137	yes	3.6	30	yes
	gamma-BHC (Lindane)	85	83	30-146	yes	2.5	30	yes
	gamma-Chlordane	75	71	67-120	yes	5.8	30	yes
	Heptachlor	56	53	51-128	yes	4.6	30	yes
	Heptachlor epoxide	78	77	62-131	yes	0.9	30	yes
	Methoxychlor	82	80	56-150	yes	1.7	30	yes
	p,p'-DDD	72	71	50-139	yes	2.0	30	yes
	p,p'-DDE	69	66	48-137	yes	3.8	30	yes
	p,p'-DDT	83	79	47-138	yes	4.3	30	yes
	Toxaphene	68	72	41-126	yes	5.6	30	yes
	SW 8082							
7-PZ-37P	PCB-1016 (Arochlor 1016)	74	80	40-144	yes	8.0	30	yes
	PCB-1260 (Arochlor 1260)	71	75	45-145	yes	5.8	30	yes

Notes:
RPD - Relative Percent Difference

Mather AR # 2970.1 Page 316 of 1088

TABLE 5-3.6

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8270 - POLYNUCLEAR AROMATIC HYDROCARBONS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PZ-37P	2-Methylnaphthalene	91	91	46-120	yes	0.2	20	yes
	Acenaphthene	91	95	47-120	yes	3.4	20	yes
	Acenaphthylene	95	93	50-120	yes	3.0	20	yes
	Anthracene	99	101	54-120	yes	2.4	20	yes
	Benzo(a)anthracene	105	106	56-120	yes	1.0	20	yes
	Benzo(a)pyrene	109	112	53-120	yes	2.7	20	yes
	Benzo(b)fluoranthene	118	126	45-124	no	6.6	20	yes
	Benzo(g,h,i)perylene	92	88	38-123	yes	4.7	20	yes
	Benzo(k)fluoranthene	97	109	45-124	yes	11.7	20	yes
	Chrysene	104	111	55-120	yes	6.5	20	yes
	Dibenz(a,h)anthracene	100	96	42-127	yes	3.7	20	yes
	Fluoranthene	103	106	54-120	yes	2.9	20	yes
	Fluorene	98	101	50-120	yes	2.8	20	yes
	Indeno(1,2,3-c,d)pyrene	96	95	43-125	yes	1.3	20	yes
	Naphthalene	90	92	39-120	yes	1.3	20	yes
	Phenanthrene	97	104	51-120	yes	6.6	20	yes
	Pyrene	105	105	49-128	yes	0.0	20	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

TABLE 5-3.7

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	SW6010							
7-BV-02	Calcium	104	120	80-120	yes	14.3	20	yes
	Copper	108	105	80-120	yes	2.8	20	yes
	Iron	105	102	80-120	yes	2.9	20	yes
	Magnesium	104	104	80-120	yes	0.0	20	yes
	Manganese	106	102	80-120	yes	3.9	20	yes
	Sodium	110	110	80-120	yes	0.0	20	yes
	Zinc	98	99	80-120	yes	0.8	20	yes
7-PTI-04/16/09	Calcium	98	99	80-120	yes	0.4	20	yes
	Copper	104	102	80-120	yes	1.9	20	yes
	Iron	105	102	80-120	yes	2.9	20	yes
	Magnesium	103	103	80-120	yes	0.0	20	yes
	Manganese	105	103	80-120	yes	1.9	20	yes
	Sodium	104	104	80-120	yes	0.0	20	yes
	Zinc	109	107	80-120	yes	1.9	20	yes
7-PZ-37P	Antimony	103	106	80-120	yes	2.9	20	yes
	Arsenic	100	103	80-120	yes	3.0	20	yes
	Barium	107	111	80-120	yes	3.7	20	yes
	Beryllium	109	110	80-120	yes	0.9	20	yes
	Cadmium	107	109	80-120	yes	1.9	20	yes
	Chromium	107	110	80-120	yes	2.8	20	yes
	Cobalt	107	109	80-120	yes	1.9	20	yes
	Copper	107	110	80-120	yes	2.8	20	yes
	Lead	104	106	80-120	yes	1.9	20	yes
	Manganese	136	132	80-120	no	3.0	20	yes
	Nickel	104	106	80-120	yes	1.9	20	yes
	Selenium	90	92	80-120	yes	1.8	20	yes
7-PZ-37P	Silver	103	105	80-120	yes	1.9	20	yes
(continued)	Vanadium	108	112	80-120	yes	3.6	20	yes
	Zinc	99	102	80-120	yes	2.6	20	yes

TABLE 5-3.7

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
ACW PTI-04/16/09	Calcium	101	100	80-120	yes	1.4	20	yes
	Copper	105	105	80-120	yes	0.0	20	yes
	Iron	108	104	80-120	yes	3.8	20	yes
	Magnesium	106	106	80-120	yes	0.0	20	yes
	Manganese	107	105	80-120	yes	1.9	20	yes
	Sodium	106	106	80-120	yes	0.0	20	yes
	Zinc	103	108	80-120	yes	4.7	20	yes
MAFB-133	Antimony	102	103	80-120	yes	1.0	20	yes
	Arsenic	105	103	80-120	yes	1.9	20	yes
	Barium	108	106	80-120	yes	1.9	20	yes
	Beryllium	103	101	80-120	yes	2.0	20	yes
	Cadmium	106	104	80-120	yes	1.9	20	yes
	Chromium	111	107	80-120	yes	3.7	20	yes
	Cobalt	107	104	80-120	yes	2.8	20	yes
	Copper	107	106	80-120	yes	0.9	20	yes
	Lead	104	102	80-120	yes	1.9	20	yes
	Manganese	101	101	80-120	yes	0.0	20	yes
	Nickel	105	103	80-120	yes	1.9	20	yes
	Selenium	97	97	80-120	yes	0.4	20	yes
	Silver	100	101	80-120	yes	1.0	20	yes
	Vanadium	110	108	80-120	yes	1.8	20	yes
	Zinc	103	101	80-120	yes	2.0	20	yes
MBS PTI-04/16/09	Antimony	102	100	80-120	yes	2.0	20	yes
	Arsenic	102	100	80-120	yes	2.0	20	yes
	Barium	109	107	80-120	yes	1.9	20	yes
	Beryllium	106	105	80-120	yes	1.0	20	yes
	Cadmium	107	106	80-120	yes	0.9	20	yes
	Chromium	109	108	80-120	yes	0.9	20	yes
	Cobalt	107	106	80-120	yes	0.9	20	yes
	Copper	106	105	80-120	yes	1.0	20	yes

TABLE 5-3.7

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Lead	104	101	80-120	yes	2.9	20	yes
	Manganese	106	107	80-120	yes	0.9	20	yes
	Nickel	104	103	80-120	yes	1.0	20	yes
	Selenium	90	89	80-120	yes	0.9	20	yes
	Silver	102	102	80-120	yes	0.0	20	yes
	Vanadium	110	108	80-120	yes	1.8	20	yes
	Zinc	103	110	80-120	yes	6.6	20	yes
	SW6020							
7-PZ-37P	Thallium	98	100	80-120	yes	2.0	25	yes
MAFB-133	Thallium	96	96	80-120	yes	0.8	25	yes
MBS PTI-04/16/09	Thallium	102	101	80-120	yes	1.0	25	yes
	SW7470							
7-PZ-37P	Mercury	110	113	85-115	yes	2.7	15	yes
MAFB-133	Mercury	110	110	85-115	yes	0.0	15	yes
MBS PTI-04/16/09	Mercury	102	100	85-115	yes	2.0	15	yes

Notes:
RPD - Relative Percent Difference

Mather AR # 2970.1 Page 320 of 1088

TABLE 5-3.8

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	SM 2320							
7-BV-02	Total Alkalinity	99	102	80-120	yes	2.8	20	yes
7-PTI-04/16/09	Total Alkalinity	90	93	80-120	yes	3.1	20	yes
ACW PTI-04/16/09	Total Alkalinity	99	100	80-120	yes	0.8	20	yes
MAFB-133	Total Alkalinity	99	100	80-120	yes	1.2	20	yes
MBS PTI-04/16/09	Total Alkalinity	100	98	80-120	yes	1.6	20	yes
	USEPA 130.2							
7-BV-02	Hardness as CaCO3	100	100	80-120	yes	0.0	20	yes
7-PTI-04/16/09	Hardness as CaCO3	100	100	80-120	yes	0.0	20	yes
ACW PTI-04/16/09	Hardness as CaCO3	101	91	80-120	yes	10.6	20	yes
MBS PTI-04/16/09	Hardness as CaCO3	101	111	80-120	yes	9.4	20	yes
	USEPA 160.1							
7-BV-02	Solids, total dissolved	87	92	80-120	yes	5.1	20	yes
7-PTI-04/16/09	Solids, total dissolved	97	100	80-120	yes	3.3	20	yes
ACW PTI-04/16/09	Solids, total dissolved	102	95	80-120	yes	7.5	20	yes
MAFB-133	Solids, total dissolved	98	95	80-120	yes	3.3	20	yes
	USEPA 160.1 (continued)							
MBS PTI-04/16/09	Solids, total dissolved	92	91	80-120	yes	1.0	20	yes
	USEPA 300.0							
7-BV-02	Chloride	94	95	85-115	yes	0.4	20	yes
	Nitrate (as N)	94	95	85-115	yes	0.2	20	yes

Mather AR # 2970.1 Page 321 of 1088

TABLE 5-3.8

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Sulfate	100	101	90-110	yes	1.0	20	yes
7-PTI-04/16/09	Chloride	102	102	90-110	yes	0.0	20	yes
	Nitrate (as N)	96	95	85-115	yes	0.6	20	yes
	Sulfate	102	102	90-110	yes	0.0	20	yes
ACW PTI-04/16/09	Chloride	95	94	85-115	yes	0.4	20	yes
	Nitrate (as N)	97	96	85-115	yes	0.4	20	yes
	Sulfate	93	92	85-115	yes	0.9	20	yes
MAFB-133	Chloride	95	96	85-115	yes	0.4	20	yes
	Sulfate	106	97	85-115	yes	8.7	20	yes
MBS PTI-04/16/09	Chloride	102	102	85-115	yes	0.0	20	yes
	Nitrate (as N)	103	104	85-115	yes	1.0	20	yes
	Sulfate	100	100	85-115	yes	0.4	20	yes
	USEPA 314.0							
ACW PTE-04/16/09	Perchlorate	101	101	80-120	yes	0.0	15	yes
MBS PTE AF-04/16/09	Perchlorate	104	103	80-120	yes	1.0	15	yes
	USEPA 340.2							
MAFB-133	Fluoride	102	104	86-114	yes	1.9	20	yes
	USEPA 376.1							
MAFB-133	Sulfide, total	88	87	80-120	yes	1.3	20	yes
	USEPA 7196							
7-PZ-37P	Hexavalent Chromium	103	103	86-117	yes	0.0	15	yes
MAFB-044	Hexavalent Chromium	95	95	86-117	yes	0.0	15	yes

Notes:
RPD - Relative Percent Difference

Mather AR # 2970.1 Page 322 of 1088

TABLE 5-4

LABORATORY DUPLICATE SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Units	Sample Concentration	Laboratory Duplicate	Actual RPD (%)	Control Limits RPD (%)	Precision Acceptability
	USEPA 160.1						
7-PTI-04/16/09	Total Filterable Residue	mg/L	230	246	6.7	20	yes
ACW PTI-04/16/09	Total Filterable Residue	mg/L	132	129	2.3	20	yes
MBS PTI-04/16/09	Total Filterable Residue	mg/L	197	190	3.6	20	yes
	USEPA 160.2						
MBS PTI-04/16/09	Total Suspended Solids	mg/L	< 10	< 10	0.0	20	yes

Notes:
mg/L - Milligrams per liter
RPD - Relative Percent Difference

Mather AR # 2970.1 Page 323 of 1088

6.0 CHAIN-OF-CUSTODY FORMS

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7964 8467 1763 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES TITHERINGTON JR.

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	4/2/2009	925	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/2/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					1000
RECEIVED BY:		ADAL INC Tom Vong		4/3/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7964 8467 1763 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	4/2/2009	825	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY RITTER	MWH	4/2/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	4/3/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7964 8467 1763 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING SR.

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	4/2/2009	1005	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	4/2/2009	1005	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	4/2/2009	800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	4/2/2009	800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/2/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vona	Appl Inc	4/3/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A|B | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shana Brookshire

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PZ-23	7-PZ-23	0	0	4/13/2009	830	N	1	BP	WG	0	0	1	A	1	P	A								X					
7-PZ-23	7-PZ-23	0	0	4/13/2009	830	N	1	BP	WG	0	0	1	A	1	P	NA							X							
7-PZ-24	7-PZ-24	0	0	4/13/2009	854	N	1	BP	WG	0	0	1	A	1	P	A								X					
7-PZ-24	7-PZ-24	0	0	4/13/2009	854	N	1	BP	WG	0	0	1	A	1	P	NA							X							
7-PZ-25	7-PZ-25	0	0	4/13/2009	924	N	1	BP	WG	0	0	1	A	1	P	A								X					
7-PZ-25	7-PZ-25	0	0	4/13/2009	924	N	1	BP	WG	0	0	1	A	1	P	NA							X							
7-PZ-26	7-PZ-26	0	0	4/13/2009	1000	N	1	BP	WG	0	0	1	A	1	P	A								X					

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FISHER	MWH	4/13/2009	1450
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PZ-26	7-PZ-26	0	0	4/13/2009	1000	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-148	MAFB-148	0	0	4/13/2009	1054	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Ron	MWH	4/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-331DF	MAFB-331	0	0	4/13/2009	1325	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-353	MAFB-353	0	0	4/13/2009	1029	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-354(B)	MAFB-354B	0	0	4/13/2009	948	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-354(D)	MAFB-354D	0	0	4/13/2009	1006	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-356(B)	MAFB-356B	0	0	4/13/2009	831	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-387(B)DF	MAFB-387B	0	0	4/13/2009	914	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-387(Dd)DF	MAFB-387Dd	0	0	4/13/2009	852	N	1	DF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: **COOLER#:** A/B **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-387(Ds)DF	MAFB-387Ds	0	0	4/13/2009	904	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-388(B)DF	MAFB-388B	0	0	4/13/2009	1217	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-388(Dd)DF	MAFB-388Dd	0	0	4/13/2009	1156	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-388(Ds)DF	MAFB-388Ds	0	0	4/13/2009	1207	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-426DF	MAFB-426	0	0	4/13/2009	1235	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-427DF	MAFB-427	0	0	4/13/2009	1046	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-443DF	MAFB-443	0	0	4/13/2009	1103	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/13/2009	~~1430~~ 1450
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#:	COOLER#: A/B	LOG CODE: MWWC	LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER

PROJECT NAME:	MAFB-MBS-1Q09
AIR FORCE ID:	MAFB
PROJECT NUMBER:	1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-459(D)DF	MAFB-459D	0	0	4/13/2009	1304	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-459(Dd)DF	MAFB-459Dd	0	0	4/13/2009	1255	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: **COOLER#:** A/B **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Brugman
ROY FOSTER

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

						ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST														
SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome		
LF-MW-1	LF-MW-1	0	0	4/13/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C			X												
LF-MW-1	LF-MW-1	0	0	4/13/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X														
MAFB-044	MAFB-044	0	0	4/13/2009	1125	N	1	BP	WG	0	0	1	A	2	A	NA				X											
MAFB-044	MAFB-044	0	0	4/13/2009	1125	N	1	BP	WG	0	0	1	A	3	G	C		X													
MAFB-044	MAFB-044	0	0	4/13/2009	1125	N	1	BP	WG	0	0	1	A	1	P	A					X										
MAFB-044	MAFB-044	0	0	4/13/2009	1125	N	1	BP	WG	0	0	1	A	1	P	NA													X		
MAFB-149	MAFB-149	0	0	4/13/2009	1206	N	1	BP	WG	0	0	1	A	1	P	A					X										

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A|B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman [signature]

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-149	MAFB-149	0	0	4/13/2009	1206	N	1	BP	WG	0	0	1	A	1	P	NA													X
MAFB-149	MAFB-149	0	0	4/13/2009	1206	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-149	MAFB-149	0	0	4/13/2009	1206	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-149	MAFB-149	0	0	4/13/2009	1206	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	4/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman [signature]

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-2	LF-MW-2	0	0	4/14/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C	X												
LF-MW-2	LF-MW-2	0	0	4/14/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-284	MAFB-284	0	0	4/14/2009	938	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-284	MAFB-284	0	0	4/14/2009	938	N	1	BP	WG	0	0	1	A	2	A	NA										X			
MAFB-284	MAFB-284	0	0	4/14/2009	938	N	1	BP	WG	0	0	1	A	2	A	NA												X	
MAFB-284	MAFB-284	0	0	4/14/2009	938	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-284	MAFB-284	0	0	4/14/2009	938	N	1	BP	WG	0	0	1	A	2	A	NA											X		

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	4/14/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broghamer

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-284	MAFB-284	0	0	4/14/2009	938	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-284	MAFB-284	0	0	4/14/2009	938	N	1	BP	WG	0	0	1	A	1	P	NA													X
MAFB-284	MAFB-284	0	0	4/14/2009	938	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-413	MAFB-413	0	0	4/14/2009	845	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-413	MAFB-413	0	0	4/14/2009	845	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-413	MAFB-413	0	0	4/14/2009	845	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-413	MAFB-413	0	0	4/14/2009	845	N	1	BP	WG	0	0	1	A	2	A	NA											X		

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Ron Frier	MWH	4/14/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A1B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawna Broughton

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-413	MAFB-413	0	0	4/14/2009	845	N	1	BP	WG	0	0	1	A	2	A	NA										X			
MAFB-413	MAFB-413	0	0	4/14/2009	845	N	1	BP	WG	0	0	1	A	2	A	NA											X		
MAFB-413	MAFB-413	0	0	4/14/2009	845	N	1	BP	WG	0	0	1	A	1	P	NA													X
MAFB-413	MAFB-413	0	0	4/14/2009	845	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-424	MAFB-424	0	0	4/14/2009	1050	N	1	BP	WG	0	0	1	A	1	P	NA													X
MAFB-424	MAFB-424	0	0	4/14/2009	1050	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-424	MAFB-424	0	0	4/14/2009	1050	N	1	BP	WG	0	0	1	A	1	P	NA							X						

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Ron FOSTER	MWH	4/14/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

Mather AR # 2970.1 Page 337 of 1088

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughton [signature]

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-424	MAFB-424	0	0	4/14/2009	1050	N	1	BP	WG	0	0	1	A	1	P	A					X								

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Rot Foster	MWH	4/14/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROI FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-270DF	MAFB-270	0	0	4/14/2009	1311	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-293	MAFB-293	0	0	4/14/2009	1301	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-311	MAFB-311	0	0	4/14/2009	1232	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-312DF	MAFB-312	0	0	4/14/2009	1011	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-318	MAFB-318	0	0	4/14/2009	954	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-382(B)DF	MAFB-382B	0	0	4/14/2009	908	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-382(D)DF	MAFB-382D	0	0	4/14/2009	851	N	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); bardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROI FOSTER	MWH	4/14/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3. etc.)
Sampling Metbod Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Deptb
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-962	MAFB-962	0	0	4/14/2009	756	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/14/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A | B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-323DF	MAFB-323	0	0	4/14/2009	1100	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-327	MAFB-327	0	0	4/14/2009	1048	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-330DF	MAFB-330	0	0	4/14/2009	810	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-336DF	MAFB-336	0	0	4/14/2009	827	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-349	MAFB-349	0	0	4/14/2009	1135	N	1	BP	WG	0	0	1	A	3	G	C				X								
OFB-MW-1	OFB-MW-1	0	0	4/14/2009	1320	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/14/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A | B | C LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Steven Brigham

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37(P)	7-PZ-37P	0	0	4/15/2009	915	N	1	BP	WG	0	0	1	A	3	G	C			X										
7-PZ-37(P)	7-PZ-37P	0	0	4/15/2009	915	N	1	BP	WG	0	0	1	A	2	A	NA										X			
7-PZ-37(P)	7-PZ-37P	0	0	4/15/2009	915	N	1	BP	WG	0	0	1	A	2	A	NA											X		
7-PZ-37(P)	7-PZ-37P	0	0	4/15/2009	915	N	1	BP	WG	0	0	1	A	1	P	A					X								
7-PZ-37(P)	7-PZ-37P	0	0	4/15/2009	915	N	1	BP	WG	0	0	1	A	1	P	NA													X
7-PZ-37(P)	7-PZ-37P	0	0	4/15/2009	915	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-PZ-37(P)	7-PZ-37P	0	0	4/15/2009	915	N	1	BP	WG	0	0	1	A	2	A	NA				X									

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Jon Foster	ROI FOSTER	MWH	4/15/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: UA COOLER#: A|B|C LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Buckman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37(P)	7-PZ-37P	0	0	4/15/2009	915	N	1	BP	WG	0	0	1	A	2	A	NA											X		
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	4/15/2009	915	MS	1	BP	WG	0	0	1	A	4	A	NA											X		
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	4/15/2009	915	MS	1	BP	WG	0	0	1	A	4	A	NA										X			
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	4/15/2009	915	MS	1	BP	WG	0	0	1	A	4	A	NA												X	
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	4/15/2009	915	MS	1	BP	WG	0	0	1	A	4	A	NA				X									
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	4/15/2009	915	MS	1	BP	WG	0	0	1	A	3	G	C			X										
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	4/15/2009	915	MS	1	BP	WG	0	0	1	A	2	P	NA													X

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		RON FOSTER	MWH	4/15/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A B C LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Steven Brigham

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	4/15/2009	915	MS	1	BP	WG	0	0	1	A	2	P	A					X								
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	4/15/2009	915	MS	1	BP	WG	0	0	1	A	3	G	C	X												
LF-MW-3	LF-MW-3	0	0	4/15/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C	X												
LF-MW-3	LF-MW-3	0	0	4/15/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-954	MAFB-954	0	0	4/15/2009	930	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-954	MAFB-954	0	0	4/15/2009	930	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-954	MAFB-954	0	0	4/15/2009	930	N	1	BP	WG	0	0	1	A	2	A	NA											X		

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		TROY BAKER	MWH	4/15/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B|C LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Bingham [signature]

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-954	MAFB-954	0	0	4/15/2009	930	N	1	BP	WG	0	0	1	A	2	A	NA										X			
MAFB-954	MAFB-954	0	0	4/15/2009	930	N	1	BP	WG	0	0	1	A	2	A	NA											X		
MAFB-954	MAFB-954	0	0	4/15/2009	930	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-954	MAFB-954	0	0	4/15/2009	930	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-954	MAFB-954	0	0	4/15/2009	930	N	1	BP	WG	0	0	1	A	1	P	NA													X

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	4/15/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 10A COOLER#: A/B/C LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-976	MAFB-976	0	0	4/15/2009	805	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-10B	MBS EW-10B	0	0	4/15/2009	1040	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-10B-MS/MSD	MBS EW-10B	0	0	4/15/2009	1040	MS	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-11B	MBS EW-11B	0	0	4/15/2009	1016	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-12B	MBS EW-12B	0	0	4/15/2009	942	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-13Bu/B	MBS EW-13Bu	0	0	4/15/2009	1230	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-2A/Bu	MBS EW2ABu	0	0	4/15/2009	1222	N	1	WF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/15/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~DA~~ COOLER#: A|B|C LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS EW-2AR	MBS EW-2AR	0	0	4/15/2009	1207	N	1	WF	WG	0	0	1	A	3	G	C				X								
MBS EW-2AR	MBS EW-2AR	0	0	4/15/2009	1207	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-2B	MBS EW-2B	0	0	4/15/2009	1256	N	1	WF	WG	0	0	1	A	3	G	C		X										
MBS EW-3Bu DF	MBS EW-3Bu	0	0	4/15/2009	1215	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS EW-4A/Bu	MBS EW4ABu	0	0	4/15/2009	1152	N	1	WF	WG	0	0	1	A	3	G	C		X										
MBS EW-5A/Bu	MBS EW5ABu	0	0	4/15/2009	1236	N	1	WF	WG	0	0	1	A	3	G	C		X										
MBS EW-5B	MBS EW-5B	0	0	4/15/2009	~~0857~~ 0917 RT	N	1	WF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Ph, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/15/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#:	NA	COOLER#:	A / B / C	LOG CODE:	MWWC	LAB:	APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME:	MAFB-MBS-1Q09
AIR FORCE ID:	MAFB
PROJECT NUMBER:	1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS EW-5D	MBS EW-5D	0	0	4/15/2009	853	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-6B	MBS EW-6B	0	0	4/15/2009	1101	N	1	WF	WG	0	0	1	A	3	G	C		X										
MBS EW-6D	MBS EW-6D	0	0	4/15/2009	1003	N	1	WF	WG	0	0	1	A	3	G	C	X											
MBS EW-8B	MBS EW-8B	0	0	4/15/2009	837	N	1	WF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/15/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B/C/D/E/F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW AS	ACW AS	0	0	4/16/2009	844	N	1	WF	WG	0	0	1	A	1	P	NA							X						
ACW AS	ACW AS	0	0	4/16/2009	844	N	1	WF	WG	0	0	1	A	1	P	A								X					
ACW AS	ACW AS	0	0	4/16/2009	844	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTD	ACW PTD	0	0	4/16/2009	802	N	1	WF	WG	0	0	1	A	1	P	NA													X
ACW PTD	ACW PTD	0	0	4/16/2009	802	N	1	WF	WG	0	0	1	A	2	A	NA					X								
ACW PTE	ACW PTE	0	0	4/16/2009	818	N	1	WF	WG	0	0	1	A	2	A	NA					X								
ACW PTE	ACW PTE	0	0	4/16/2009	818	N	1	WF	WG	0	0	1	A	1	P	NA							X						

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A B C D E F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	4/16/2009	818	N	1	WF	WG	0	0	1	A	1	P	A								X					
ACW PTE	ACW PTE	0	0	4/16/2009	818	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTE	ACW PTE	0	0	4/16/2009	818	N	1	WF	WG	0	0	1	A	1	P	NA													X
ACW PTE-MS/MSD	ACW PTE	0	0	4/16/2009	818	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
ACW PTE-MS/MSD	ACW PTE	0	0	4/16/2009	818	MS	1	WF	WG	0	0	1	A	2	P	NA													X
ACW PTI	ACW PTI	0	0	4/16/2009	901	N	1	WF	WG	0	0	1	A	1	P	NA							X						
ACW PTI	ACW PTI	0	0	4/16/2009	901	N	1	WF	WG	0	0	1	A	1	P	A								X					

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1.2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A B C D E F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTI	ACW PTI	0	0	4/16/2009	901	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTI-MS/MSD	ACW PTI	0	0	4/16/2009	901	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
ACW PTI-MS/MSD	ACW PTI	0	0	4/16/2009	901	MS	1	WF	WG	0	0	1	A	2	P	A								X					
ACW PTI-MS/MSD	ACW PTI	0	0	4/16/2009	901	MS	1	WF	WG	0	0	1	A	3	G	C	X												
ACW R2	ACW R2	0	0	4/16/2009	1115	N	1	B	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B|C|D|E|F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-914	MAFB-914	0	0	4/16/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS AS	MBS AS	0	0	4/16/2009	825	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS AS	MBS AS	0	0	4/16/2009	825	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS AS	MBS AS	0	0	4/16/2009	825	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS AS	MBS AS	0	0	4/16/2009	825	N	1	WF	WG	0	0	1	A	2	A	NA					X								
MBS AS	MBS AS	0	0	4/16/2009	825	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS AS	MBS AS	0	0	4/16/2009	825	N	1	WF	WG	0	0	1	A	1	P	A									X				

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 10A COOLER#: A|B|C|D|E|F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Brogan

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS EW-1B	MBS EW-1B	0	0	4/16/2009	935	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-1Bu	MBS EW-1Bu	0	0	4/16/2009	1030	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-1Bu-MS/MSD	MBS EW-1Bu	0	0	4/16/2009	1030	MS	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-2D	MBS EW-2D	0	0	4/16/2009	945	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-3D	MBS EW-3D	0	0	4/16/2009	920	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-4Bu	MBS EW-4Bu	0	0	4/16/2009	1050	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS EW-7B	MBS EW-7B	0	0	4/16/2009	955 AF	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Jon Foster	Jon Foster	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: ~~A~~ B C D E F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shayna Brockhouse

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS EW-9B	MBS EW-9B	0	0	4/16/2009	1005	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTA	MBS PTA	0	0	4/16/2009	815	N	1	WF	WG	0	0	1	A	1	P	NA												X	
MBS PTE AF	MBS PTE AF	0	0	4/16/2009	800	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS PTE AF	MBS PTE AF	0	0	4/16/2009	800	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTE AF	MBS PTE AF	0	0	4/16/2009	800	N	1	WF	WG	0	0	1	A	1	P	NA												X	
MBS PTE AF	MBS PTE AF	0	0	4/16/2009	800	N	1	WF	WG	0	0	1	A	2	A	NA					X								
MBS PTE AF	MBS PTE AF	0	0	4/16/2009	800	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROI ATTEIZ	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: OA COOLER#: A|B|C|D|E|F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	4/16/2009	800	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS PTE AF	MBS PTE AF	0	0	4/16/2009	800	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS PTE AF-MS/MSD	MBS PTE AF	0	0	4/16/2009	800	MS	1	WF	WG	0	0	1	A	2	P	NA												X	
MBS PTI	MBS PTI	0	0	4/16/2009	835	N	1	WF	WG	0	0	1	A	2	A	NA					X								
MBS PTI	MBS PTI	0	0	4/16/2009	835	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS PTI	MBS PTI	0	0	4/16/2009	835	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS PTI	MBS PTI	0	0	4/16/2009	835	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA **COOLER#:** A B C D E F **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Sherra Bingham

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTI	MBS PTI	0	0	4/16/2009	835	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS PTI	MBS PTI	0	0	4/16/2009	835	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS PTI-MS/MSD	MBS PTI	0	0	4/16/2009	835	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
MBS PTI-MS/MSD	MBS PTI	0	0	4/16/2009	835	MS	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTI-MS/MSD	MBS PTI	0	0	4/16/2009	835	MS	1	WF	WG	0	0	1	A	2	P	A									X				
MBS PTI-MS/MSD	MBS PTI	0	0	4/16/2009	835	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
MBS PTI-MS/MSD	MBS PTI	0	0	4/16/2009	835	MS	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROYBOSIEK	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ok	**COOLER#:** A/B/C/D/E/F	**LOG CODE:** MWWC	**LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shannon Breedlove

PROJECT NAME:	MAFB-MBS-1Q09
AIR FORCE ID:	MAFB
PROJECT NUMBER:	1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTI-MS/MSD	MBS PTI	0	0	4/16/2009	835	MS	1	WF	WG	0	0	1	A	2	P	NA												X
MBS PTT	MBS PTT	0	0	4/16/2009	1300	N	1	WF	WG	0	0	1	A	3	G	C				X								
MBS PTT	MBS PTT	0	0	4/16/2009	1300	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOREK	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Metbod Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Deptb
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B|C|D|E|F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST													
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-AS	7-AS	0	0	4/16/2009	951	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-AS	7-AS	0	0	4/16/2009	951	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-AS	7-AS	0	0	4/16/2009	951	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-AS	7-AS	0	0	4/16/2009	951	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-AS	7-AS	0	0	4/16/2009	951	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-EW-1	7-EW-1	0	0	4/16/2009	1221	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-EW-1	7-EW-1	0	0	4/16/2009	1221	N	1	WF	WG	0	0	1	A	1	P	A								X					

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B/C/D/E/F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-EW-1	7-EW-1	0	0	4/16/2009	1221	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-EW-1	7-EW-1	0	0	4/16/2009	1221	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-EW-1	7-EW-1	0	0	4/16/2009	1221	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-EW-2	7-EW-2	0	0	4/16/2009	1154	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-EW-2	7-EW-2	0	0	4/16/2009	1154	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-EW-2	7-EW-2	0	0	4/16/2009	1154	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-EW-2	7-EW-2	0	0	4/16/2009	1154	N	1	WF	WG	0	0	1	A	2	A	NA					X								

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B/C/D/E/F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-EW-2	7-EW-2	0	0	4/16/2009	1154	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-EW-2-MS/MSD	7-EW-2	0	0	4/16/2009	1154	MS	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTE	7-PTE	0	0	4/16/2009	944	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	4/16/2009	944	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTE	7-PTE	0	0	4/16/2009	944	N	1	WF	WG	0	0	1	A	1	P	NA							X					
7-PTE	7-PTE	0	0	4/16/2009	944	N	1	WF	WG	0	0	1	A	1	P	A								X				
7-PTE	7-PTE	0	0	4/16/2009	944	N	1	WF	WG	0	0	1	A	2	A	NA					X							

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B|C|D|E|F LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTI	7-PTI	0	0	4/16/2009	1010	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-PTI	7-PTI	0	0	4/16/2009	1010	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-PTI	7-PTI	0	0	4/16/2009	1010	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTI	7-PTI	0	0	4/16/2009	1010	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-PTI	7-PTI	0	0	4/16/2009	1010	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTI-MS/MSD	7-PTI	0	0	4/16/2009	1010	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
7-PTI-MS/MSD	7-PTI	0	0	4/16/2009	1010	MS	1	WF	WG	0	0	1	A	4	A	NA					X								

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: UA **COOLER#:** A B C D E F **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTI-MS/MSD	7-PTI	0	0	4/16/2009	1010	MS	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTI-MS/MSD	7-PTI	0	0	4/16/2009	1010	MS	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTI-MS/MSD	7-PTI	0	0	4/16/2009	1010	MS	1	WF	WG	0	0	1	A	2	P	A								X				
MAFB-975	MAFB-975	0	0	4/16/2009	1117	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/16/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only; Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 1794 7725 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughton [signature]

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW AT-1	ACW AT-1	0	0	4/17/2009	800	N	1	WF	WG	0	0	1	A	3	G	C		X											
ACW AT-1-MS/MSD	ACW AT-1	0	0	4/17/2009	800	MS	1	WF	WG	0	0	1	A	3	G	C		X											
ACW AT-2	ACW AT-2	0	0	4/17/2009	825	N	1	WF	WG	0	0	1	A	3	G	C		X											
ACW EW-1	ACW EW-1	0	0	4/17/2009	835	N	1	WF	WG	0	0	1	A	3	G	C		X											
ACW EW-2	ACW EW-2	0	0	4/17/2009	845	N	1	WF	WG	0	0	1	A	3	G	C		X											
ACW EW-3	ACW EW-3	0	0	4/17/2009	910	N	1	WF	WG	0	0	1	A	3	G	C		X											
ACW EW-4	ACW EW-4	0	0	4/17/2009	940	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	4/17/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 1794 7705 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawna Brockman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW EW-6R	ACW EW-6R	0	0	4/17/2009	925	N	1	WF	WG	0	0	1	A	3	G	C		X											
MAFB-901	MAFB-901	0	0	4/17/2009	815	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROI FOSTER	MWH	4/17/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 1794 7725 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shannon Brougham

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-923	MAFB-923	0	0	4/17/2009	807	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-12AB	MBS EW-12AB	0	0	4/17/2009	842	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS EW-1A/Bu	MBS EW1ABu	0	0	4/17/2009	1010	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-1D	MBS EW-1D	0	0	4/17/2009	1012	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS EW-1D	MBS EW-1D	0	0	4/17/2009	1012	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS EW-39A/Bu/B	MBS 39ABuB	0	0	4/17/2009	957	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-3B	MBS EW-3B	0	0	4/17/2009	914	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/17/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 1794 7725 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Brougham

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS EW-3B-MS/MSD	MBS EW-3B	0	0	4/17/2009	914	MS	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-4A	MBS EW-4A	0	0	4/17/2009	826	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-4B	MBS EW-4B	0	0	4/17/2009	1031	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-4D	MBS EW-4D	0	0	4/17/2009	857	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS EW-6A/Bu	MBS EW6ABu	0	0	4/17/2009	1025	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS EW-7A/Bu	MBS EW7ABu	0	0	4/17/2009	938	N	1	WF	WG	0	0	1	A	3	G	C		X											
MBS-MW-1	MBS-MW-1	0	0	4/17/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/17/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 1794 7725 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER [signature]
Shawn Broughton [signature]

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-1	MBS-MW-1	0	0	4/17/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	4/17/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-380(B)DF	MAFB-380B	0	0	4/20/2009	1124	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-380(D)DF	MAFB-380D	0	0	4/20/2009	1113	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-385(D)DF	MAFB-385D	0	0	4/20/2009	929	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-412	MAFB-412	0	0	4/20/2009	1133	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-437(Dd)DF	MAFB-437Dd	0	0	4/20/2009	1316	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-437(Ds)DF	MAFB-437Ds	0	0	4/20/2009	1307	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-963	MAFB-963	0	0	4/20/2009	1149	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1): alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/20/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-271	MAFB-271	0	0	4/20/2009	1224	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-319DF	MAFB-319	0	0	4/20/2009	1247	N	1	DF	WG	0	0	1	A	3	G	C				X									
MAFB-321DF	MAFB-321	0	0	4/20/2009	1236	N	1	DF	WG	0	0	1	A	3	G	C				X									
MAFB-322	MAFB-322	0	0	4/20/2009	843	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-324	MAFB-324	0	0	4/20/2009	1010	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-324-MS/MSD	MAFB-324	0	0	4/20/2009	1010	MS	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-326	MAFB-326	0	0	4/20/2009	818	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/20/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-328DF	MAFB-328	0	0	4/20/2009	1036	N	1	DF	WG	0	0	1	A	3	G	C				X									
MAFB-337	MAFB-337	0	0	4/20/2009	904	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-338DF	MAFB-338	0	0	4/20/2009	1047	N	1	DF	WG	0	0	1	A	3	G	C				X									
MAFB-911	MAFB-911	0	0	4/20/2009	1158	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-918	MAFB-918	0	0	4/20/2009	941	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/20/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 0A COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37	7-PZ-37	0	0	4/20/2009	935	N	1	B	WG	0	0	1	A	1	P	A					X								
7-PZ-37	7-PZ-37	0	0	4/20/2009	935	N	1	B	WG	0	0	1	A	1	P	NA													X
7-PZ-37	7-PZ-37	0	0	4/20/2009	935	N	1	B	WG	0	0	1	A	3	G	C			X										
7-PZ-37	7-PZ-37	0	0	4/20/2009	935	N	1	B	WG	0	0	1	A	2	A	NA				X									
7-PZ-37	7-PZ-37	0	0	4/20/2009	935	N	1	B	WG	0	0	1	A	3	G	C	X												
7-PZ-37	7-PZ-37	0	0	4/20/2009	935	N	1	B	WG	0	0	1	A	2	A	NA											X		
7-PZ-37	7-PZ-37	0	0	4/20/2009	935	N	1	B	WG	0	0	1	A	2	A	NA									X				

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	4/20/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#:	0A	COOLER#:	A	LOG CODE:	MWWC	LAB:	APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER
Simon Buchanan

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37	7-PZ-37	0	0	4/20/2009	935	N	1	B	WG	0	0	1	A	2	A	NA											X		
LF-MW-1	LF-MW-1	0	0	4/20/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C			X										
LF-MW-1	LF-MW-1	0	0	4/20/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:			MWH	4/20/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3. etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Broshuma

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-261DF	MAFB-261	0	0	4/21/2009	1034	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-263DF	MAFB-263	0	0	4/21/2009	1249	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-269	MAFB-269	0	0	4/21/2009	1018	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-332DF	MAFB-332	0	0	4/21/2009	1233	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-346(Bd)DF	MAFB-346Bd	0	0	4/21/2009	1158	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-346(Bs)DF	MAFB-346Bs	0	0	4/21/2009	1208	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-346(D)DF	MAFB-346D	0	0	4/21/2009	1147	N	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/21/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: **COOLER#:** A **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER
Sharon Brockman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-351(D)	MAFB-351D	0	0	4/21/2009	826	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-368(B)	MAFB-368B	0	0	4/21/2009	854	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-368(D)	MAFB-368D	0	0	4/21/2009	917	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-368(D)-MS/MSD	MAFB-368D	0	0	4/21/2009	917	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-381(B)DF	MAFB-381B	0	0	4/21/2009	1104	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-381(D)DF	MAFB-381D	0	0	4/21/2009	1055	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-411	MAFB-411	0	0	4/21/2009	832	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	4/21/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster [signature]
Sherrie Broughman [signature]

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-955	MAFB-955	0	0	4/21/2009	753	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-974	MAFB-974	0	0	4/21/2009	845	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS-MW-10	MBS-MW-10	0	0	4/21/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	4/21/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shannon Brockman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-129	MAFB-129	0	0	4/21/2009	758	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-129	MAFB-129	0	0	4/21/2009	758	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/21/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broadman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW-MW-1	ACW-MW-1	0	0	4/22/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-067DF	MAFB-067	0	0	4/22/2009	1220	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-068DF	MAFB-068	0	0	4/22/2009	1300	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-069DF	MAFB-069	0	0	4/22/2009	950	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-401DF RE	MAFB-401	0	0	4/22/2009	930	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-402	MAFB-402	0	0	4/22/2009	1115	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-403	MAFB-403	0	0	4/22/2009	1155	N	1	BP	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/22/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Brockhaman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
MAFB-408 DF RF	MAFB-408	0	0	4/22/2009	845	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-961	MAFB-961	0	0	4/22/2009	915	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-977	MAFB-977	0	0	4/22/2009	1245	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/22/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PZ-09C DF	ACW PZ-09C	0	0	4/23/2009	1235	N	1	DF	WG	0	0	1	A	3	G	C		X										
ACW PZ-10C DF	ACW PZ-10C	0	0	4/23/2009	1255	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-453(C)DF	MAFB-453C	0	0	4/23/2009	1210	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-453DF	MAFB-453	0	0	4/23/2009	1155	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/23/2009	1410
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brockman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-294	MAFB-294	0	0	4/23/2009	947	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320): chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		TROY FOSTER	MWH	4/23/2009	1410
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Steven Brigham

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-4	LF-MW-4	0	0	4/23/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-111	MAFB-111	0	0	4/23/2009	814	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-111	MAFB-111	0	0	4/23/2009	814	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-111	MAFB-111	0	0	4/23/2009	814	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-288	MAFB-288	0	0	4/23/2009	850	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-288	MAFB-288	0	0	4/23/2009	850	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-288	MAFB-288	0	0	4/23/2009	850	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Roy Foster	Roy Foster	MWH	4/23/2009	1410
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Steven Broyhurn

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-400	MAFB-400	0	0	4/23/2009	1027	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-400	MAFB-400	0	0	4/23/2009	1027	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-400	MAFB-400	0	0	4/23/2009	1027	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-935	MAFB-935	0	0	4/23/2009	1045	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-935	MAFB-935	0	0	4/23/2009	1045	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-935	MAFB-935	0	0	4/23/2009	1045	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/23/2009	1410
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 3892 4089 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shannon Broyhamer

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PZ-06C DF	ACW PZ-06C	0	0	4/24/2009	915	N	1	DF	WG	0	0	1	A	3	G	C		X										
ACW PZ-07C DF	ACW PZ-07C	0	0	4/24/2009	945	N	1	DF	WG	0	0	1	A	3	G	C		X										
ACW PZ-08C DF	ACW PZ-08C	0	0	4/24/2009	935	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-053	MAFB-053	0	0	4/24/2009	~~1107~~ RS 1147	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-078DF	MAFB-078	0	0	4/24/2009	845	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-194DF	MAFB-194	0	0	4/24/2009	825	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-194DF-MS/MSD	MAFB-194	0	0	4/24/2009	825	MS	1	DF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/24/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 3892 4089 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brockman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
MAFB-196DF	MAFB-196	0	0	4/24/2009	1050	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-432DF	MAFB-432	0	0	4/24/2009	815	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-454(C)DF	MAFB-454C	0	0	4/24/2009	1010	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-454DF	MAFB-454	0	0	4/24/2009	1025	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	4/24/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975-3892-4089 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Buckhouse

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-259	MAFB-259	0	0	4/24/2009	1234	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-260DF	MAFB-260	0	0	4/24/2009	822	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-267	MAFB-267	0	0	4/24/2009	1257	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-268DF	MAFB-268	0	0	4/24/2009	830	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-449(Bd)DF	MAFB-449Bd	0	0	4/24/2009	1106	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-449(Bs)DF	MAFB-449Bs	0	0	4/24/2009	1058	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-457(Bd)DF	MAFB-457Bd	0	0	4/24/2009	946	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/24/2009	1436
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 3892 4689 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-457(Bs)DF	MAFB-457Bs	0	0	4/24/2009	932	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-458(Bd)DF	MAFB-458Bd	0	0	4/24/2009	1018	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-458(Bs)DF	MAFB-458Bs	0	0	4/24/2009	1010	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-900	MAFB-900	0	0	4/24/2009	844	N	1	BP	WG	0	0	1	A	3	G	C	X											
MBS-MW-13	MBS-MW-13	0	0	4/24/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/24/2009	1450
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

ANALYSIS REQUEST

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
MAFB-455DF	MAFB-455	0	0	4/27/2009	950	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-456(C)DF	MAFB-456C	0	0	4/27/2009	930	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-936	MAFB-936	0	0	4/27/2009	845	N	1	WF	WG	0	0	1	A	3	G	C		X											
MAFB-942	MAFB-942	0	0	4/27/2009	1000	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1): alkalinity -total, bicarbonate. carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Michael Sperber	MWH	4/27/2009	1335
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Steve Brockman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTT	ACW PTT	0	0	4/27/2009	1330	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PZ-02DF	ACW PZ-02	0	0	4/27/2009	1050	N	1	DF	WG	0	0	1	A	3	G	C		X											
ACW PZ-05DF	ACW PZ-05	0	0	4/27/2009	1030	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-301	MAFB-301	0	0	4/27/2009	830	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-301-MS/MSD	MAFB-301	0	0	4/27/2009	830	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-302	MAFB-302	0	0	4/27/2009	1123	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-433DF	MAFB-433	0	0	4/27/2009	1010	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		1335	MWH	4/27/2009	1335
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 4536 6780 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broeckman

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
Gould	OFB-31	0	0	4/28/2009	955	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Influent	OFB-51/52I	0	0	4/28/2009	730	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Mid-GAC	OFB-51/52M	0	0	4/28/2009	735	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH1	OFB-51	0	0	4/28/2009	800	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH2	OFB-52	0	0	4/28/2009	820	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH2-MS/MSD	OFB-52	0	0	4/28/2009	820	MS	1	WF	WG	0	0	1	A	3	G	C				X									
MAFB-926	MAFB-926	0	0	4/28/2009	918	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Speer	MWH / Geologist	4/28/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 4536 6780 COOLER#: A

LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Breedlove

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-927	MAFB-927	0	0	4/28/2009	830	N	1	WF	WG	0	0	1	A	3	G	C				X									
Mars	OFB-27	0	0	4/28/2009	930	N	1	WF	WG	0	0	1	A	3	G	C				X									
Mars-MS/MSD	OFB-27	0	0	4/28/2009	930	MS	1	WF	WG	0	0	1	A	3	G	C				X									
Moonbeam Influent	OFB-04	0	0	4/28/2009	905	N	1	WF	WG	0	0	1	A	3	G	C				X									
Moonbeam Mid-GAC	OFB-04M	0	0	4/28/2009	915	N	1	WF	WG	0	0	1	A	3	G	C				X									
Nut Plains	OFB-32	0	0	4/28/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C				X									
Oaken Bucket	OFB-49	0	0	4/28/2009	1040	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sorber	MWH Geologist	4/28/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 9536 6780 COOLER#: A

LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brueckman

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
OFB-MW-2	OFB-MW-2	0	0	4/28/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C				X									
South Port	OFB-54	0	0	4/28/2009	1120	N	1	WF	WG	0	0	1	A	3	G	C				X									
Tallyho #2	OFB-56	0	0	4/28/2009	1100	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Soarbor	MWH / Geologist	4/28/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 4896 0581 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-013	MAFB-013	0	0	4/29/2009	1225	N	1	BP	WG	0	0	1	A	1	P	A						X							
MAFB-013	MAFB-013	0	0	4/29/2009	1225	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-104	MAFB-104	0	0	4/29/2009	1234	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-151	MAFB-151	0	0	4/29/2009	817	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-175	MAFB-175	0	0	4/29/2009	1207	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-247	MAFB-247	0	0	4/29/2009	1041	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-249	MAFB-249	0	0	4/29/2009	1130	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	4/29/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 4896 0581 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roi Foster
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-258	MAFB-258	0	0	4/29/2009	1015	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-364(B)	MAFB-364B	0	0	4/29/2009	942	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-364(D)	MAFB-364D	0	0	4/29/2009	1008	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-365(B)DF	MAFB-365B	0	0	4/29/2009	1106	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-365(D)	MAFB-365D	0	0	4/29/2009	1052	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-369	MAFB-369	0	0	4/29/2009	829	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-423(B)DF	MAFB-423B	0	0	4/29/2009	915	N	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roi Foster	MWH	4/29/2009	1450
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 4896 0581 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER
Shawn Broughton

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-423DF	MAFB-423	0	0	4/29/2009	900	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-441DF	MAFB-441	0	0	4/29/2009	845	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-451DF	MAFB-451	0	0	4/29/2009	1000	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-452(B)DF	MAFB-452B	0	0	4/29/2009	935	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-452(Bu)DF	MAFB-452Bu	0	0	4/29/2009	945	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-981	MAFB-981	0	0	4/29/2009	930	N	1	DF	WG	0	0	1	A	3	G	C		X											
MBS PZ-37	MBS PZ-37	0	0	4/29/2009	1309	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	4/29/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 4896 0581 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shannon Broussman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-3	MBS-MW-3	0	0	4/29/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/29/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 5378 1458 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

Stephen Brockhaus

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
FFS-EW-15-1DF	FFS EW15-1	0	0	4/30/2009	1129	N	1	DF	WG	0	0	1	A	3	G	C	X												
FFS-EW-15-2DF	FFS EW15-2	0	0	4/30/2009	1119	N	1	DF	WG	0	0	1	A	3	G	C	X												
FFS-MW-15-1DF	FFS MW15-1	0	0	4/30/2009	1036	N	1	DF	WG	0	0	1	A	3	G	C	X												
FFS-MW-15-2DF	FFS MW15-2	0	0	4/30/2009	1047	N	1	DF	WG	0	0	1	A	3	G	C	X												
FFS-MW-15-3DF	FFS MW15-3	0	0	4/30/2009	1058	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-172	MAFB-172	0	0	4/30/2009	~~902~~ RF 1053	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-173	MAFB-173	0	0	4/30/2009	~~1055~~ RF 1014	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	4/30/2009	1438
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 5378 1458 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-174	MAFB-174	0	0	4/30/2009	1222	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-176	MAFB-176	0	0	4/30/2009	902	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-232	MAFB-232	0	0	4/30/2009	817	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-246	MAFB-246	0	0	4/30/2009	951	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-248	MAFB-248	0	0	4/30/2009	1001	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-265	MAFB-265	0	0	4/30/2009	903	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-265-MS/MSD	MAFB-265	0	0	4/30/2009	903	MS	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	4/30/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7973 5378 1458 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Brayhuma

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-313	MAFB-313	0	0	4/30/2009	1258	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-377DF	MAFB-377	0	0	4/30/2009	921	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-383(B)DF	MAFB-383B	0	0	4/30/2009	1115	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-386(D)DF	MAFB-386D	0	0	4/30/2009	811	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-429(Bd)DF	MAFB-429Bd	0	0	4/30/2009	1220	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-429(Bs)DF	MAFB-429Bs	0	0	4/30/2009	1230	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-429(Bu)DF	MAFB-429Bu	0	0	4/30/2009	1205	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/30/2009	1458
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 5378 1458 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

Shawn Buchanan

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-450DF	MAFB-450	0	0	4/30/2009	1130	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-920	MAFB-920	0	0	4/30/2009	802	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-921	MAFB-921	0	0	4/30/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	4/30/2009	1438
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 5378 1458 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURINGER JR.

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	4/30/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	4/30/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	4/30/2009	900	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	4/30/2009	900	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Foster	MWH	4/30/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 5378 1458 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THURING JR

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	4/30/2009	930	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/30/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7975 5378 1458 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. TIMEURING JR

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	4/30/2009	815	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	4/30/2009	1450
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965 7000 5111 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

Shannon Brinkman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-059DF	MAFB-059	0	0	5/1/2009	815	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-347	MAFB-347	0	0	5/1/2009	853	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-348(B)DF	MAFB-348B	0	0	5/1/2009	1029	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-348(Dd)	MAFB-348Dd	0	0	5/1/2009	947	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-348(Ds)	MAFB-348Ds	0	0	5/1/2009	1014	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-367DF	MAFB-367	0	0	5/1/2009	817	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-422DF	MAFB-422	0	0	5/1/2009	830	N	1	DF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Roy Foster	Roy Foster	MWH	5/1/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965 7000 5111 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy FOSTER
Sharon Brockman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-431(Bd)DF	MAFB-431Bd	0	0	5/1/2009	940	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-431(Dd)DF	MAFB-431Dd	0	0	5/1/2009	915	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-431(Ds)DF	MAFB-431Ds	0	0	5/1/2009	930	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-434(Bd)DF	MAFB-434Bd	0	0	5/1/2009	1010	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-434(Bs)DF	MAFB-434Bs	0	0	5/1/2009	1045	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-434(Bs)DF-MS/MS	MAFB-434Bs	0	0	5/1/2009	1045	MS	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-434(Bu)DF	MAFB-434Bu	0	0	5/1/2009	1025	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	5/1/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965 7000 5111 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-983	MAFB-983	0	0	5/1/2009	1100	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS PZ-38	MBS PZ-38	0	0	5/1/2009	1111	N	1	BP	WG	0	0	1	A	3	G	C		X										
MBS-MW-4	MBS-MW-4	0	0	5/1/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/1/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965 7598 3649 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Shawn Brugham

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-181	MAFB-181	0	0	5/4/2009	1248	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-200	MAFB-200	0	0	5/4/2009	1050	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-200-MS/MSD	MAFB-200	0	0	5/4/2009	1050	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-215	MAFB-215	0	0	5/4/2009	1118	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-215-MS/MSD	MAFB-215	0	0	5/4/2009	1118	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-296DF	MAFB-296	0	0	5/4/2009	853	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-329DF	MAFB-329	0	0	5/4/2009	943	N	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	5/4/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965 7598 3649 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy FISHER
Shawn Broesamle

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-352(D)DF	MAFB-352D	0	0	5/4/2009	916	N	1	DF	WG	0	0	1	A	12	G	C		X										
MAFB-352(D)DF-MS/MSD	MAFB-352D	0	0	5/4/2009	916	MS	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-366(B)	MAFB-366B	0	0	5/4/2009	1054	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-366(D)DF	MAFB-366D	0	0	5/4/2009	1107	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-425DF	MAFB-425	0	0	5/4/2009	1140	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-438DF	MAFB-438	0	0	5/4/2009	815	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-932	MAFB-932	0	0	5/4/2009	1100	N	1	BP	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FISHER	MWH	5/4/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965 7598 3649 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shannon Broadhurst

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-945	MAFB-945	0	0	5/4/2009	1030	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-956	MAFB-956	0	0	5/4/2009	821	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS PZ-58DF	MBS PZ-58	0	0	5/4/2009	1141	N	1	DF	WG	0	0	1	A	3	G	C		X											
MBS-MW-5	MBS-MW-5	0	0	5/4/2009	1315	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/4/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965 7598 3649 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
MAFB-193	MAFB-193	0	0	5/4/2009	0907	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-198	MAFB-198	0	0	5/4/2009	1003	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-306	MAFB-306	0	0	5/4/2009	0935	N	1	BP	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Keiki Oshiro	Keiki Oshiro	MWH	5/4/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: **COOLER#:** A **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
MAFB-391DF	MAFB-391	0	0	5/5/2009	910	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-393DF	MAFB-393	0	0	5/5/2009	1655	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-394DF	MAFB-394	0	0	5/5/2009	1600	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-395DF	MAFB-395	0	0	5/5/2009	1015	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-396DF	MAFB-396	0	0	5/5/2009	1030	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-931	MAFB-931	0	0	5/5/2009	950	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperbo	MWH / Geologist	5/5/2009	1404
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shannon Bruckhuman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-109DF	MAFB-109	0	0	5/5/2009	800	N	1	DF	WG	0	0	1	A	3	G	C		X										
~~MBS-MW-2~~	~~MBS-MW-2~~	~~0~~	~~0~~	5/5/2009		N	1	BP	WG	0	0	1	A	3	G	C				X								
MBS-MW-2	MBS-MW-2	0	0	5/5/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH / Geologist	5/5/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Bingham

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-379(B)DF	MAFB-379B	0	0	5/6/2009	828	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-379(D)DF	MAFB-379D	0	0	5/6/2009	817	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-397DF	MAFB-397	0	0	5/6/2009	810	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-435DF	MAFB-435	0	0	5/6/2009	1028	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-905	MAFB-905	0	0	5/6/2009	1130	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-934	MAFB-934	0	0	5/6/2009	800	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-941	MAFB-941	0	0	5/6/2009	1129	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Michael Sperber	MWH / geologist	5/6/2009	1900
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Brueshmer

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-292DF-MS/MSD	MAFB-292 MS	0	0	5/6/2009	1058	MS	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-292	MAFB-292	0	0	5/6/2009	1159	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-375DF	MAFB-375	0	0	5/6/2009	910	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-376DF	MAFB-376	0	0	5/6/2009	1000	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(B)DF	MAFB-378B	0	0	5/6/2009	820	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(D)DF	MAFB-378D	0	0	5/6/2009	840	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(D)DF-MS/MSD	MAFB-378D	0	0	5/6/2009	840	MS	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH Geologist	5/6/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
TROY FOSTER
Shawn Boughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-006	MAFB-006	0	0	5/6/2009	1041	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-094	MAFB-094	0	0	5/6/2009	1155	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-096	MAFB-096	0	0	5/6/2009	1255	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-155	MAFB-155	0	0	5/6/2009	1118	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-180	MAFB-180	0	0	5/6/2009	1014	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-273	MAFB-273	0	0	5/6/2009	1229	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-291DF	MAFB-291	0	0	5/6/2009	1058	N	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH/Geology	5/6/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached **COOLER#:** **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

Shawn Brockman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-946	MAFB-946	0	0	5/6/2009	944	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-957	MAFB-957	0	0	5/6/2009	950	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS PZ-11	MBS PZ-11	0	0	5/6/2009	941	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS PZ-42(D)DF	MBS PZ-42D	0	0	5/6/2009	922	N	1	DF	WG	0	0	1	A	3	G	C		X											
MBS PZ-42(S)	MBS PZ-42S	0	0	5/6/2009	910	N	1	BP	WG	0	0	1	A	3	G	C	X												
MBS-MW-17	MBS-MW-17	0	0	5/6/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C	X												

~~MAFB-292/MSMSD MAFB-292 0 0~~ 1159

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperbo	MWH/Geobsy	5/6/2009	1401
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965-8552-7580 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shannon Biggerstaff

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-282DF	MAFB-282	0	0	5/7/2009	820	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-340	MAFB-340	0	0	5/7/2009	1040	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-342DF	MAFB-342	0	0	5/7/2009	1310	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-357(D)DF	MAFB-357D	0	0	5/7/2009	1205	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-357(Dd)DF	MAFB-357Dd	0	0	5/7/2009	1250	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-357(Ds)DF	MAFB-357Ds	0	0	5/7/2009	1220	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-358(B)	MAFB-358B	0	0	5/7/2009	935	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Tom Foster	MWH	5/7/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7965-8552-7580 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brushman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-358(D)	MAFB-358D	0	0	5/7/2009	955	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-972	MAFB-972	0	0	5/7/2009	1145	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS-MW-16	MBS-MW-16	0	0	5/7/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	5/7/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Braghman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-047	MAFB-047	0	0	5/8/2009	828	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-047-MS/MSD	MAFB-047	0	0	5/8/2009	828	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-060	MAFB-060	0	0	5/8/2009	910	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-167	MAFB-167	0	0	5/8/2009	933	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-229	MAFB-229	0	0	5/8/2009	821	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-231	MAFB-231	0	0	5/8/2009	917	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-274	MAFB-274	0	0	5/8/2009	847	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Michael Sperber		MWH/Geologist	5/8/2009	1500
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shannon Brockhaus

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-341	MAFB-341	0	0	5/8/2009	1123	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-384(B)DF	MAFB-384B	0	0	5/8/2009	1200	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-384(D)DF	MAFB-384D	0	0	5/8/2009	1210	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-407	MAFB-407	0	0	5/8/2009	1047	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-917	MAFB-917	0	0	5/8/2009	804	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS PZ-50(D)	MBS PZ-50D	0	0	5/8/2009	1011	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS PZ-50(S)	MBS PZ-50S	0	0	5/8/2009	947	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH / Ecologist	5/8/2009	
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shannon Broeckman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-11	MBS-MW-11	0	0	5/8/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperry	MWH/Geologist	5/8/2009	
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: WA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-062DF	MAFB-062	0	0	5/11/2009	901	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-170	MAFB-170	0	0	5/11/2009	1128	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-171	MAFB-171	0	0	5/11/2009	1018	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-177	MAFB-177	0	0	5/11/2009	858	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-199DF	MAFB-199	0	0	5/11/2009	928	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-230	MAFB-230	0	0	5/11/2009	1228	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-239DF	MAFB-239	0	0	5/11/2009	939	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH / Geologist	5/11/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: UA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FISHER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-361	MAFB-361	0	0	5/11/2009	1050	N	1	BP	WG	0	0	1	A	3	G	C		X											
~~MBS-MW-9~~	~~MBS-MW-9~~	0	0	5/11/2009		N	1	BP	WG	0	0	1	A	3	G	C				X									
MBS-MW-9	MBS-MW-9	0	0	5/11/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Michael Spotter	[redacted]	MWH Geologist	5/11/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.) (req Min)	Nickel & Chrome (req Min)	PCBs	PAHs	Pesticides	Hex Chrome
7-BV-01	7-BV-01	0	0	5/12/2009	828	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-01	7-BV-01	0	0	5/12/2009	828	N	1	BP	WG	0	0	1	A	1	P	NA								✓					
7-BV-01	7-BV-01	0	0	5/12/2009	828	N	1	BP	WG	0	0	1	A	1	P	A									✓				
7-BV-04	7-BV-04	0	0	5/12/2009	910	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-04	7-BV-04	0	0	5/12/2009	910	N	1	BP	WG	0	0	1	A	1	P	A									✓				
7-BV-04	7-BV-04	0	0	5/12/2009	910	N	1	BP	WG	0	0	1	A	1	P	NA								✓					
7-BV-06	7-BV-06	0	0	5/12/2009	950	N	1	BP	WG	0	0	1	A	1	P	A									✓				

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag. V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/12/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	~~Nickel (Diss.)~~	~~Nickel & Chrome~~	PCBs	PAHs	Pesticides	Hex Chrome
7-BV-06	7-BV-06	0	0	5/12/2009	950	N	1	BP	WG	0	0	1	A	1	P	NA								X					
7-BV-06	7-BV-06	0	0	5/12/2009	950	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-08	7-BV-08	0	0	5/12/2009	1054	N	1	BP	WG	0	0	1	A	1	P	A									X				
7-BV-08	7-BV-08	0	0	5/12/2009	1054	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-08	7-BV-08	0	0	5/12/2009	1054	N	1	BP	WG	0	0	1	A	1	P	NA								X					
7-PZ-38(P)	7-PZ-38P	0	0	5/12/2009	1215	N	1	BP	WG	0	0	1	A	3	G	C		X											
7-PZ-38(P)	7-PZ-38P	0	0	5/12/2009	1215	N	1	BP	WG	0	0	1	A	1	P	A					X								

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag. V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/12/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Braughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-38(P)	7-PZ-38P	0	0	5/12/2009	1215	N	1	BP	WG	0	0	1	A	2	A	NA				X									
7-PZ-38(P)	7-PZ-38P	0	0	5/12/2009	1215	N	1	BP	WG	0	0	1	A	3	G	C			X										
7-PZ-38(P)	7-PZ-38P	0	0	5/12/2009	1215	N	1	BP	WG	0	0	1	A	1	P	NA													X
LF-MW-2	LF-MW-2	0	0	5/12/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C	X												
LF-MW-2	LF-MW-2	0	0	5/12/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C			X										

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/12/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-168DF	MAFB-168	0	0	5/13/2009	919	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-201	MAFB-201	0	0	5/13/2009	1113	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-240	MAFB-240	0	0	5/13/2009	824	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-266	MAFB-266	0	0	5/13/2009	905	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-359	MAFB-359	0	0	5/13/2009	1032	N	1	BP	WG	0	0	1	A	2	A	NA					X								
MAFB-359	MAFB-359	0	0	5/13/2009	1032	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS PZ-55B DF	MBS PZ-55B	0	0	5/13/2009	952	N	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/13/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PZ-55Bu DF	MBS PZ-55Bu	0	0	5/13/2009	943	N	1	DF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/13/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brushman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	~~Nickel (Diss.)~~ Cin Min 1	~~Nickel & Chrome~~ Cin Min 2	PCBs	PAHs	Pesticides	Hex Chrome
7-BV-02	7-BV-02	0	0	5/13/2009	1045	N	1	BP	WG	0	0	1	A	1	P	NA								X					
7-BV-02	7-BV-02	0	0	5/13/2009	1045	N	1	BP	WG	0	0	1	A	1	P	A									X				
7-BV-02	7-BV-02	0	0	5/13/2009	1045	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-02-MS/MSD	7-BV-02	0	0	5/13/2009	1045	MS	1	BP	WG	0	0	1	A	2	P	A									X				
7-BV-02-MS/MSD	7-BV-02	0	0	5/13/2009	1045	MS	1	BP	WG	0	0	1	A	2	P	NA								X					
7-BV-07	7-BV-07	0	0	5/13/2009	905	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-07	7-BV-07	0	0	5/13/2009	905	N	1	BP	WG	0	0	1	A	1	P	A									X				

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	5/13/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shannon Brockhaus

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.) Gen Min 1	~~Nickel & Chrome~~ Gen Min 2	PCBs	PAHs	Pesticides	Hex Chrome
7-BV-07	7-BV-07	0	0	5/13/2009	905	N	1	BP	WG	0	0	1	A	1	P	NA								X					
7-BV-13	7-BV-13	0	0	5/13/2009	815	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-13	7-BV-13	0	0	5/13/2009	815	N	1	BP	WG	0	0	1	A	2	A	NA				X									
7-BV-13	7-BV-13	0	0	5/13/2009	815	N	1	BP	WG	0	0	1	A	1	P	NA													X
7-BV-13	7-BV-13	0	0	5/13/2009	815	N	1	BP	WG	0	0	1	A	3	G	C			X										
7-BV-13	7-BV-13	0	0	5/13/2009	815	N	1	BP	WG	0	0	1	A	1	P	A					X								
LF-MW-3	LF-MW-3	0	0	5/13/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C			X										

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/13/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Buoghanna [signature]

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	~~Nickel (Diss.)~~ Gen Min 1	~~Nickel & Chrome~~ Gen Min 2	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-3	LF-MW-3	0	0	5/13/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-951	MAFB-951	0	0	5/13/2009	1110	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-951	MAFB-951	0	0	5/13/2009	1110	N	1	BP	WG	0	0	1	A	1	P	NA								X					
MAFB-951	MAFB-951	0	0	5/13/2009	1110	N	1	BP	WG	0	0	1	A	1	P	A									X				

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	5/13/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-063DF	MAFB-063	0	0	5/14/2009	859	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-164DF	MAFB-164	0	0	5/14/2009	848	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-205	MAFB-205	0	0	5/14/2009	1104	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-216	MAFB-216	0	0	5/14/2009	939	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-216-MS/MSD	MAFB-216	0	0	5/14/2009	939	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-220	MAFB-220	0	0	5/14/2009	1130	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-227	MAFB-227	0	0	5/14/2009	1215	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/14/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-235DF	MAFB-235	0	0	5/14/2009	1256	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-243	MAFB-243	0	0	5/14/2009	829	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-264	MAFB-264	0	0	5/14/2009	1238	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-363DF	MAFB-363	0	0	5/14/2009	1008	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-950	MAFB-950	0	0	5/14/2009	804	N	1	BP	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/14/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Steven Brockman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-398	MAFB-398	0	0	5/14/2009	915	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-398	MAFB-398	0	0	5/14/2009	915	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-398(C)	MAFB-398C	0	0	5/14/2009	828	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-398(C)	MAFB-398C	0	0	5/14/2009	828	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-398(C)	MAFB-398C	0	0	5/14/2009	828	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FISHER	MWH	5/14/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brockman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-005	MAFB-005	0	0	5/14/2009	1210	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-005	MAFB-005	0	0	5/14/2009	1210	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-005	MAFB-005	0	0	5/14/2009	1240	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-132L	MAFB-132	0	0	5/14/2009	1023	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-132L	MAFB-132	0	0	5/14/2009	1023	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-132L	MAFB-132	0	0	5/14/2009	1023	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-398	MAFB-398	0	0	5/14/2009	915	N	1	BP	WG	0	0	1	A	1	P	A					X								

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FISHER	MWH	5/14/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Chuck Thering - not present

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	5/14/2009	840	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/14/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA	**COOLER#:** A		**LOG CODE:** MWWC	**LAB:** APPL	
SAMPLER(S) PRINTED NAME AND SIGNATURE					
Chuck Theuring - Not Present					
PROJECT NAME: MAFB-ACW-1Q09					
AIR FORCE ID: MAFB					
PROJECT NUMBER: 1951161.34010801					

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	5/14/2009	950	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roi Foster	MWH	5/14/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Chuck Thuerig - Not present

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	5/14/2009	1025	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	5/14/2009	1025	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	5/14/2009	800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	5/14/2009	800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	5/14/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: UA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-214	MAFB-214	0	0	5/18/2009	1203	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-223	MAFB-223	0	0	5/18/2009	948	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-362	MAFB-362	0	0	5/18/2009	1024	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-430DF	MAFB-430	0	0	5/18/2009	834	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-442DF	MAFB-442	0	0	5/18/2009	1045	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS PZ-51DF	MBS PZ-51	0	0	5/18/2009	904	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS-MW-3	MBS-MW-3	0	0	5/18/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	5/18/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawna Brockman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-131	MAFB-131	0	0	5/18/2009	848	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-131	MAFB-131	0	0	5/18/2009	848	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-131	MAFB-131	0	0	5/18/2009	848	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-133L	MAFB-133	0	0	5/18/2009	1220	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-133L	MAFB-133	0	0	5/18/2009	1220	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-133L	MAFB-133	0	0	5/18/2009	1220	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-133L-MS/MSD	MAFB-133	0	0	5/18/2009	1220	MS	1	BP	WG	0	0	1	A	2	P	A					X								

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/18/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shelton Bruyamon

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-133L-MS/MSD	MAFB-133	0	0	5/18/2009	1220	MS	1	BP	WG	0	0	1	A	2	P	NA							X						
MAFB-133L-MS/MSD	MAFB-133	0	0	5/18/2009	1220	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-136L	MAFB-136	0	0	5/18/2009	1004	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-136L	MAFB-136	0	0	5/18/2009	1004	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-136L	MAFB-136	0	0	5/18/2009	1004	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-140	MAFB-140	0	0	5/18/2009	1115	N	1	BP	WG	0	0	1	A	1	P	A								X					
MAFB-948	MAFB-948	0	0	5/18/2009	1240	N	1	BP	WG	0	0	1	A	1	P	A					X								

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Rot Foster	MWH	5/18/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-948	MAFB-948	0	0	5/18/2009	1240	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-948	MAFB-948	0	0	5/18/2009	1240	N	1	BP	WG	0	0	1	A	1	P	NA							X						

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	5/18/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brockman

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-4	LF-MW-4	0	0	5/19/2009	1350	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-112	MAFB-112	0	0	5/19/2009	950	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-112	MAFB-112	0	0	5/19/2009	950	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-112	MAFB-112	0	0	5/19/2009	950	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-399	MAFB-399	0	0	5/19/2009	915	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-399	MAFB-399	0	0	5/19/2009	915	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-399	MAFB-399	0	0	5/19/2009	915	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Ron Foster	MWH	5/19/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brousseau

PROJECT NAME: MAFB-LF-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-440	MAFB-440	0	0	5/19/2009	1033	N	1	BP	WG	0	0	1	A	2	A	NA											X		
MAFB-440	MAFB-440	0	0	5/19/2009	1033	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-440	MAFB-440	0	0	5/19/2009	1033	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-440(P)	MAFB-440P	0	0	5/19/2009	1100	N	1	BP	WG	0	0	1	A	2	A	NA											X		
MAFB-440(P)	MAFB-440P	0	0	5/19/2009	1100	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-440(P)	MAFB-440P	0	0	5/19/2009	1100	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Ron Foster	MWH	5/19/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-222	MAFB-222	0	0	5/19/2009	1023	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-242	MAFB-242	0	0	5/19/2009	957	N	1	BP	WG	0	0	1	A	3	G	C		X										
MBS PZ-12	MBS PZ-12	0	0	5/19/2009	1104	N	1	BP	WG	0	0	1	A	3	G	C		X										
MBS PZ-13	MBS PZ-13	0	0	5/19/2009	1257	N	1	BP	WG	0	0	1	A	3	G	C		X										
MBS PZ-14	MBS PZ-14	0	0	5/19/2009	1235	N	1	BP	WG	0	0	1	A	3	G	C		X										
MBS PZ-15	MBS PZ-15	0	0	5/19/2009	1204	N	1	BP	WG	0	0	1	A	3	G	C		X										
MBS PZ-44DF	MBS PZ-44	0	0	5/19/2009	918	N	1	DF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/19/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PZ-44DF-MS/MSD	MBS PZ-44	0	0	5/19/2009	918	MS	1	DF	WG	0	0	1	A	3	G	C		X										
MBS PZ-49(D)DF	MBS PZ-49D	0	0	5/19/2009	831	N	1	DF	WG	0	0	1	A	3	G	C		X										
MBS PZ-54DF	MBS PZ-54	0	0	5/19/2009	850	N	1	DF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/19/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7966 2172 1800 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-224	MAFB-224	0	0	5/20/2009	935	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-410	MAFB-410	0	0	5/20/2009	1220	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS PZ-52DF	MBS PZ-52	0	0	5/20/2009	1303	N	1	DF	WG	0	0	1	A	3	G	C		X											
MBS-MW-12	MBS-MW-12	0	0	5/20/2009	1345	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/20/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7960 2172 1800 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER
Shawn Brockman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
FFS-MW15-6DF	FFS MW15-6	0	0	5/20/2009	1105	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-048	MAFB-048	0	0	5/20/2009	1018	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-061	MAFB-061	0	0	5/20/2009	853	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-101DF	MAFB-101	0	0	5/20/2009	1238	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-102	MAFB-102	0	0	5/20/2009	1014	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-211	MAFB-211	0	0	5/20/2009	857	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-217	MAFB-217	0	0	5/20/2009	1048	N	1	BP	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	5/20/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 1297 1937 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Broughton

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-033	MAFB-033	0	0	5/21/2009	805	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-122	MAFB-122	0	0	5/21/2009	1030	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-203	MAFB-203	0	0	5/21/2009	1026	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-203	MAFB-203	0	0	5/21/2009	1026	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-204	MAFB-204	0	0	5/21/2009	1317	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-218	MAFB-218	0	0	5/21/2009	1013	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-308DF	MAFB-308	0	0	5/21/2009	1318	N	1	DF	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/21/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 1297 1937 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-314	MAFB-314	0	0	5/21/2009	1304	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-314	MAFB-314	0	0	5/21/2009	1304	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-320	MAFB-320	0	0	5/21/2009	1237	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-417	MAFB-417	0	0	5/21/2009	1128	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-417	MAFB-417	0	0	5/21/2009	1128	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-419	MAFB-419	0	0	5/21/2009	843	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-419	MAFB-419	0	0	5/21/2009	843	N	1	BP	WG	0	0	1	A	2	A	NA					X							

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/21/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 1297 1937 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Brighton

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-419	MAFB-419	0	0	5/21/2009	843	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-428	MAFB-428	0	0	5/21/2009	923	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-428	MAFB-428	0	0	5/21/2009	923	N	1	BP	WG	0	0	1	A	3	G	C				X								
MBS-MW-2	MBS-MW-2	0	0	5/21/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C				X								
MBS-MW-2	MBS-MW-2	0	0	5/21/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/21/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 1742 0360 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-221	MAFB-221	0	0	5/22/2009	938	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-250	MAFB-250	0	0	5/22/2009	1253	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-404DF	MAFB-404	0	0	5/22/2009	1117	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-405DF	MAFB-405	0	0	5/22/2009	1051	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-415DF	MAFB-415	0	0	5/22/2009	1026	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-418DF	MAFB-418	0	0	5/22/2009	959	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-910	MAFB-910	0	0	5/22/2009	828	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/22/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 1742 0360 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-15	MBS-MW-15	0	0	5/22/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C		X										

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/22/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman Michael Sperber for Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-090	MAFB-090	0	0	5/26/2009	1240	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-206	MAFB-206	0	0	5/26/2009	1110	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-414	MAFB-414	0	0	5/26/2009	936	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-414	MAFB-414	0	0	5/26/2009	936	N	1	BP	WG	0	0	1	A	2	A	NA					X								
MAFB-414	MAFB-414	0	0	5/26/2009	936	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-439	MAFB-439	0	0	5/26/2009	843	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-439	MAFB-439	0	0	5/26/2009	843	N	1	BP	WG	0	0	1	A	2	A	NA					X								

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH/Geologist	5/26/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman Michael Sperber For Shawn Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-439	MAFB-439	0	0	5/26/2009	843	N	1	BP	WG	0	0	1	A	1	P	A						X							
MAFB-439	MAFB-439	0	0	5/26/2009	843	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-913	MAFB-913	0	0	5/26/2009	945	N	1	BP	WG	0	0	1	A	3	G	C	X												
MBS-MW-9	MBS-MW-9	0	0	5/26/2009	~~1445~~ 1600	N	1	BP	WG	0	0	1	A	3	G	C				X									
MBS-MW-9	MBS-MW-9	0	0	5/26/2009	1600	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH / Geologist	5/26/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: See Attached COOLER#: 1 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman Michael Sparber for Shawn Broughman

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
MAFB-456DF	MAFB-456	0	0	5/26/2009	1014	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sparber	MWH Geologist	5/26/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON
Name: MARK FREY
Phone #: 916-418-8390

FED EX #: _____ Cooler #: _____ LOGCODE: MWWC LAB: _____

SAMPLER(S) PRINTED NAME AND SIGNATURE

Venkata Ganesh Nagisetti G

PROJECT NAME: MAFB-OFB
AIR FORCE ID: MAFB
PROJECT NUMBER: 195116.34010801

SAMPLE DESCRIPTION	LOCID	SBD	SED	DATE	TIME	ERPIMS Codes SA	SN	SM	MC	Lot Control Number AB	EB	TB	CO	Sample Container BC	CT	PR	ANALYSIS REQUEST VOCs-524.2
JH Influent	OFB-51/52I	0	0	5/26/09	9:10	N	1	WF	WG	0	0	1	A	3	G	C	X
JH Mid-GAC	OFB-51/52M	0	0	5/26/09	9:15	N	1	WF	WG	0	0	1	A	3	G	C	X
Moonbeam Influent	OFB-04	0	0	5/26/09	9:50	N	1	WF	WG	0	0	1	A	3	G	C	X
Moonbeam Mid-GAC	OFB-04M	0	0	5/26/09	9:55	N	1	WF	WG	0	0	1	A	3	G	C	X

Comments/Instructions:
VOCs 524.2: Complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC: 3 day TAT
JH Influent, Moonbeam Influent: 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	VENKATA GANESH NAGISETTI	MWH	5/26/09	11:30
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition Upon Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC) From ERPIMS Handbook
Bottle Count (BC): 1,2,3, etc.
Container Type (CT): B = Brass Sleeve, A = Amber Glass
G = Clear Glass, P = Plastic
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None,
A = HNO3, B = H2SO4, C = HCl,
D = NaOH

ORIGINAL: Send with sample (sign only in blue or black ink)

COPIES: Retained by Sampler, Sent to Office

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 2689 6474 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Shana Brockman

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
MAFB-042DF	MAFB-042	0	0	5/27/2009	1032	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-285DF	MAFB-285	0	0	5/27/2009	1108	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-297DF	MAFB-297	0	0	5/27/2009	1045	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-300	MAFB-300	0	0	5/27/2009	843	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-370DF	MAFB-370	0	0	5/27/2009	845	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-371(C)DF	MAFB-371C	0	0	5/27/2009	910	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-371(D)DF	MAFB-371D	0	0	5/27/2009	900	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Roy Foster	Roy Foster	MWH	5/27/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 2689 6474 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER
SHANNA BRUCKNER

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
MAFB-372(B)	MAFB-372B	0	0	5/27/2009	1117	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-372(B)	MAFB-372B	0	0	5/27/2009	1117	N	1	BP	WG	0	0	1	A	2	A	NA					X								
MAFB-372(D)DF	MAFB-372D	0	0	5/27/2009	1130	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-373(C)DF	MAFB-373C	0	0	5/27/2009	1015	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-373(D)DF	MAFB-373D	0	0	5/27/2009	1000	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-373(D)DF-MS/MSD	MAFB-373D	0	0	5/27/2009	1000	MS	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-444DF	MAFB-444	0	0	5/27/2009	957	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/27/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: **COOLER#:** A **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER
Shannon Broughman

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
MAFB-445DF	MAFB-445	0	0	5/27/2009	940	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-446DF	MAFB-446	0	0	5/27/2009	927	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-447DF	MAFB-447	0	0	5/27/2009	905	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-448DF	MAFB-448	0	0	5/27/2009	928	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-903	MAFB-903	0	0	5/27/2009	955	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-908	MAFB-908	0	0	5/27/2009	820	N	1	BP	WG	0	0	1	A	3	G	C	X												
ST7-MW-2	ST7-MW-2	0	0	5/27/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/27/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 3295 9684 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster [signature]
Shawn Broughman [signature]

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-209	MAFB-209	0	0	5/28/2009	1242	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-210	MAFB-210	0	0	5/28/2009	1105	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-228	MAFB-228	0	0	5/28/2009	919	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-339DF	MAFB-339	0	0	5/28/2009	1155	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-374DF	MAFB-374	0	0	5/28/2009	829	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-420DF	MAFB-420	0	0	5/28/2009	940	N	1	DF	WG	0	0	1	A	3	G	C		X											
MBS PZ-39	MBS PZ-39	0	0	5/28/2009	950	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	5/28/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 3295 9684 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PZ-53DF	MBS PZ-53	0	0	5/28/2009	856	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/28/2009	1402
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 3295 9684 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Chuck Thuering —Not present

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	5/28/2009	945	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROTASITER	MWH	5/28/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 3295 9684 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Chuck Thuerig - not present

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Mfn	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	5/28/2009	830	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		RON FOSTER	MWH	5/28/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7976 3295 9684 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Chuck Thuering - not present

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST											
						SA	SM	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	5/28/2009	1020	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	5/28/2009	1020	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	5/28/2009	800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	5/28/2009	800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Fosser	MWH	5/28/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7960 5071 8800 COOLER#: LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

Shannon Broughman

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-123	MAFB-123	0	0	5/29/2009	1051	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-159	MAFB-159	0	0	5/29/2009	1005	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-202	MAFB-202	0	0	5/29/2009	900	N	1	BP	WG	0	0	1	A	1	P	A						X							
MAFB-202	MAFB-202	0	0	5/29/2009	900	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-207	MAFB-207	0	0	5/29/2009	837	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-212	MAFB-212	0	0	5/29/2009	1110	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-290	MAFB-290	0	0	5/29/2009	1124	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/29/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7966 5071 8800 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

SHAWN BROUGHMAN

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-7	MBS-MW-7	0	0	5/29/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate. hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb. Ba, Be, Cd, Cr, Co, Cu. Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	5/29/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797606159496 COOLER#: 10 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-938	MAFB-938	0	0	6/1/2009	815	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Michael Perlin	MWH Geologist	6/1/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797654015496 COOLER#: 101 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Michael Sperber

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-906	MAFB-906	0	0	6/1/2009	1215	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-980	MAFB-980	0	0	6/1/2009	1037	N	1	BP	WG	0	0	1	A	3	G	C		X											
OFB-06	OFB-06	0	0	6/1/2009	945	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-07	OFB-07	0	0	6/1/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-09	OFB-09	0	0	6/1/2009	920	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-12	OFB-12	0	0	6/1/2009	905	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-17	OFB-17	0	0	6/1/2009	845	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH Geologist	6/1/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797640159496 COOLER#: 101 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Michael Sperber

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
OFB-17-MS/MSD	OFB-17	0	0	6/1/2009	845	MS	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-24	OFB-24	0	0	6/1/2009	830	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-39	OFB-39	0	0	6/1/2009	1110	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-40	OFB-40	0	0	6/1/2009	1130	N	1	WF	WG	0	0	1	A	3	G	C		X											
~~OFB-42~~ OFB-43 MS	~~OFB-42~~ OFB-43 MS	0	0	6/1/2009	1137	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-46	OFB-46	0	0	6/1/2009	1300	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-47	OFB-47	0	0	6/1/2009	1145	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH Geologist	6/1/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797640159496 COOLER#: #101 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Michael Sperber

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
OFB-48	OFB-48	0	0	6/1/2009	1200	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-53	OFB-53	0	0	6/1/2009	1235	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-57	OFB-57	0	0	6/1/2009	1055	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-67	OFB-67	0	0	6/1/2009	1020	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-68	OFB-68	0	0	6/1/2009	1030	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-69	OFB-69	0	0	6/1/2009	1037	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-69-MS/MSD	OFB-69	0	0	6/1/2009	1037	MS	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH Geologist	6/1/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797640594496 COOLER#: A-181 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

michael Sperber

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
OFB-70	OFB-70	0	0	6/1/2009	1056	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-71	OFB-71	0	0	6/1/2009	1217	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-72	OFB-72	0	0	6/1/2009	1325	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-73	OFB-73	0	0	6/1/2009	1344	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-74	OFB-74	0	0	6/1/2009	1417	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-75	OFB-75	0	0	6/1/2009	1451	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-76	OFB-76	0	0	6/1/2009	1521	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		michael Sperber	MWH	6/2/09	6/1/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797640159495 COOLER#: 101 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Michael Seerber

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
OFB-77	OFB-77	0	0	6/1/2009	1551	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-MW-8	OFB-MW-8	0	0	6/1/2009	1700	N	1	BP	WG	0	0	1	A	3	G	C		X											

ANALYSIS REQUEST

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Michael Seerber		MWH Geologist	6/1/2009	1730
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796658448941 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Michael Sperber

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-985	MAFB-985	0	0	6/2/2009	1057	N	1	WF	WG	0	0	1	A	3	G	C		X											
MB-4	MB-4	0	0	6/2/2009	810	N	1	WF	WG	0	0	1	A	3	G	C				X									
OFB-78	OFB-78	0	0	6/2/2009	958	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-79	OFB-79	0	0	6/2/2009	1033	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-80	OFB-80	0	0	6/2/2009	1041	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-81	OFB-81	0	0	6/2/2009	1057	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-MW-6	OFB-MW-6	0	0	6/2/2009	1120	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH Geologist	6/2/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796658448941 COOLER#: 1 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Michael Sperber

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
OFB-MW-7	OFB-MW-7	0	0	6/2/2009	1200	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		michael Sperber	MWH Geologist	6/2/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A. | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ACW-IQ09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW-PTE	0	0	6/11/2009	0915	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	6/11/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	6/12/09	1015

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

8
Mather AR # 2970.1 Page 475 of 1088

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. TUERING JR.

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	6/11/2009	0820	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. TUERING	MWH	6/11/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	6/12/09	1015

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

8
Mather AR # 2970.1 Page 476 of 1088

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	6/11/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	6/11/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTT	7-PTT	0	0	6/11/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTT	7-PTT	0	0	6/11/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	6/11/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	6/12/09	1015

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

Mather AR # 2970 1 Page 477 of 1088

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	GenMin 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	6/11/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	6/11/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	6/11/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	6/11/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	6/11/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	6/12/09	1015

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7966 9364 5148 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROI FOSTER

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	GenMin 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
MAFB-191DF	MAFB-191	0	0	6/15/2009	822	N	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROI FOSTER	MWH	6/15/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	6/16/09	925

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

8
Mather AR # 2970.1 Page 479 of 1088

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7966 9364 5148 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-251DF	MAFB-251	0	0	6/15/2009	931	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-344DF	MAFB-344	0	0	6/15/2009	902	N	1	DF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	ROY FOSTER	ROY FOSTER	MWH	6/15/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Tom Vong	Tom Vong	Appl Inc	6/16/09	925

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

8
Mather AR # 2970.1 Page 480 of 1088

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7960 9364 5148 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
MAFB-041DF	MAFB-041	0	0	6/15/2009	1039	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-056DF	MAFB-056	0	0	6/15/2009	1047	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-392DF	MAFB-392	0	0	6/15/2009	1124	N	1	DF	WG	0	0	1	A	3	G	C		X											
ST7-MW-3	ST7-MW-3	0	0	6/15/2009	1230	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	6/15/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vony	Appl Inc	6/16/09	925

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

8
Mather AR # 2970.1 Page 481 of 1088

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A. | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Mtn 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	6/25/2009	0925	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	6/25/2009	1056
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc.	6/26/09	1100

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURER JR

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	6/25/2009	0815	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	CHARLES T. THEURER JR	CHARLES T. THEURER JR.	MWH	6/25/2009	1058
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Tom Vorey	Tom Vorey	Appl. Inc	6/26/09	1100

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	6/25/2009	0957	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	6/25/2009	0957	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTT	7-PTT	0	0	6/25/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTT	7-PTT	0	0	6/25/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	6/25/2009	1059
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	6/26/09	1100

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796733838544 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Michael Sperber

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
OFB-72	OFB-72	0	0	6/29/2009	9:30	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-MW-7	OFB-MW-7	0	0	6/29/2009	8:30	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:

~~VOCs 524.2: complete list with low level detections~~ MS
~~JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT.~~ MS
~~JH Influent and Moonbeam Influent - 2 week TAT.~~ MS

72 hour TAT

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH / Geologist	6/29/2009	1200
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796737989090 COOLER#: APPL INC. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

VENKATA GANESH NAGISETTI G

PROJECT NAME: MAFB-OFB-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
JH Influent	OFB-51/52I	0	0	6/30/2009	9:35	N	1	WF	WG	0	0	1	A	3	G	C				X								
JH Mid-GAC	OFB-51/52M	0	0	6/30/2009	9:45	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Influent	OFB-04	0	0	6/30/2009	9:15	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Mid-GAC	OFB-04M	0	0	6/30/2009	9:20	N	1	WF	WG	0	0	1	A	3	G	C				X								
OFB-MW-1	OFB-MW-1	0	0	6/30/2009	12:00	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	VENKATA	MWH	6/30/2009	12:10
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

REFERENCES

Air Force Center for Environmental Excellence (AFCEE) Headquarters, 2001. Quality Assurance Project Plan, Version 4.0.01. Air Force Center for Environmental Excellence, Brooks Air Force Base, Texas. May 2005.

Montgomery Watson, 1997a. Final Basewide Groundwater Monitoring Sampling and Analysis Plan, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1997b. Final AC&W Site Sampling and Analysis Plan, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1997c. Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Off-Base Sampling, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1999. Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Site 7 Performance Sampling, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 2000. Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Main Base/SAC Performance Sampling – Revision 1, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

U.S. Department of the Air Force, 1993. "Headquarters Air Force Center for Environmental Excellence (AFCEE) Handbook for the Installation Restoration Program (IRP) Remedial Investigation/ Feasibility Studies (RI/FS)," Environmental Services Directorate, Brooks Air Force Base, Texas.

TABLES

TABLE F-1

DATA QUALIFIER SUMMARY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
INITIAL CALIBRATION RESULTS						
USEPA 524.2/ MB-4	Vinyl chloride	29 (%RSD)	0-20 (%RSD)	R (all results)	Initial calibration recovery for this compound on 06/09/09 was outside control limits.	Initial calibration recovery above project control limits would indicate that sample results for vinyl chloride are potentially biased high. However, the result for this sample was ND, therefore there is no significant impact to the data quality. The R flag is applied in accordance with AFCEE guidance.
INITIAL AND CONTINUAL CALIBRATION VERIFICATION						
SW8081/ 7-PZ-37P (FD)	alpha-BHC	21.5 (%D)	0-20 (%D)	R (all results)	CCV-04/23/09 recovery for this compound was outside control limits.	CCV recovery above project control limits would indicate that sample results for alpha-BHC are potentially biased high. However, the result for this sample was ND, therefore there is no significant impact to the data quality. The R flag is applied in accordance with AFCEE guidance.
SURROGATE RESULTS						
SW8260/ 7-PTE-06/11/09	All analytes	123 (%R)	72-119 (%R)	J (all detects)	Surrogate recovery for 1,2-dichloroethane-d4 was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ ACW PTE-04/30/09	All analytes	116 (%R)	85-115 (%R)	J (all detects)	Surrogate recovery for dibromofluoromethane was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ MAFB-294	All analytes	84.5 (%R)	85-115 (%R)	J (all detects) UJ (all non-detects)	Surrogate recovery for dibromofluoromethane was outside the control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ MAFB-434Bu	All analytes	122 (%R)	72-119 (%R)	J (all detects)	Surrogate recovery for 1,2-dichloroethane-d4 was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ MAFB-438	All analytes	117 (%R)	85-115 (%R)	J (all detects)	Surrogate recovery for dibromofluoromethane was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ MBS PTE AF-04/30/09	All analytes	129 (%R)	72-119 (%R)	J (all detects)	Surrogate recovery for 1,2-dichloroethane-d4 was outside the control limits.	The J flag does not have any significant impact to the data quality.

Mather AR # 2970.1 Page 489 of 1088

TABLE F-1

DATA QUALIFIER SUMMARY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
SW8260/ MBS PTE AF-04/30/09	All analytes	117 (%R)	85-115 (%R)	J (all detects)	Surrogate recovery for dibromofluoromethane was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ OFB-48	All analytes	193 (%R)	72-119 (%R)	J (all detects)	Surrogate recovery for 1,2-dichloroethane-d4 was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ OFB-48	All analytes	124 (%R)	85-115 (%R)	J (all detects)	Surrogate recovery for dibromofluoromethane was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ OFB-73	All analytes	197 (%R)	72-119 (%R)	J (all detects)	Surrogate recovery for 1,2-dichloroethane-d4 was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ OFB-73	All analytes	125 (%R)	85-115 (%R)	J (all detects)	Surrogate recovery for dibromofluoromethane was outside the control limits.	The J flag does not have any significant impact to the data quality.
LABORATORY CONTROL SAMPLE RESULTS						
No deviations to report						
MATRIX SPIKE/MATRIX SPIKE RESULTS						
SW8260/ 7-EW-1, 7-EW-2, 7-EW-2 (FD), MAFB-042, MAFB-148, MAFB-391, MAFB-393, MAFB-394, MAFB-395, MAFB-395 (FD), MAFB-396	1,3-Dichlorobenzene 1,4-Dichlorobenzene Trichloroethene	74 (%R MS) 73 (%R MS) 63 (%R MSD)	75-124 (%R) 75-123 (%R) 70-127 (%R)	M (all results) M (all results) M (all results)	MS/MSD recoveries for these compounds in sample 7-EW-2 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ 7-PTE-04/02/09, 7-PTE-04/16/09, 7-PTE-04/30/09, 7-PTE-05/14/09, 7-PTE-05/28/09, 7-PTE-06/11/09, 7-PTE-06/25/09, 7-PTI-04/16/09, 7-PTI-04/16/09 (FD)	Trichloroethene	69/63 (%R MS/MSD)	70-127 (%R)	M (all results)	MS/MSD recoveries for this compound in sample 7-PTI-04/16/09 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ 7-BV-01, 7-BV-02, 7-BV-02 (FD), 7-BV-04, 7-BV-06, 7-BV-07, 7-BV-08, 7-BV-13, 7-PZ-37, 7-PZ-37P, 7-PZ-37P (FD), 7-PZ-38P, MAFB-044, MAFB-149, MAFB-284, MAFB-413, MAFB-424, MAFB-440, MAFB-440P	Carbon tetrachloride Carbon tetrachloride cis-1,3-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene	60 (%R MS) 31.9% (RPD) 51/67 (%R MS/MSD) 27.1% (RPD) 51 (%R MS) 29.8% (RPD)	66-138 (%R) 0-20% (RPD) 69-131 (%R) 0-20% (RPD) 59-135 (%R) 0-20% (RPD)	M (all results) M (all results) M (all results) M (all results) M (all results) M (all results)	MS/MSD and RPD recoveries for these compounds in sample 7-PZ-37P were outside control limits.	The M flag does not have any significant impact to the data quality.

Mather AR # 2970.1 Page 490 of 1088

TABLE F-1

DATA QUALIFIER SUMMARY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
SW8260/ ACW AT-1, ACW AT-1 (FD), ACW AT-2, ACW EW-1, ACW EW-2, ACW EW-3, ACW EW-4, ACW EW-6R	Trichloroethene	63 (%R MS)	70-127 (%R)	M (all results)	MS recovery for this compound in sample ACW AT-1 was outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ MAFB-013, MAFB-104, MAFB-151, MAFB-175, MAFB-215, MAFB-215 (FD), MAFB-247, MAFB-249, MAFB-258, MAFB-364B, MAFB-364D, MAFB-365B, MAFB-365D, MAFB-369, MAFB-423, MAFB-423B, MAFB-423B (FD), MAFB-441, MAFB-458Bd, MAFB-458Bs	Trichloroethene	68/66 (%R MS/MSD)	70-127 (%R)	M (all results)	MS/MSD recoveries for this compound in sample MAFB-215 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ MAFB-059, MAFB-313, MAFB-347, MAFB-348B, MAFB-348Dd, MAFB-348Ds, MAFB-352D, MAFB-367, MAFB-377, MAFB-383B, MAFB-386D, MAFB-422, MAFB-429Bd, MAFB-429Bs, MAFB-429Bs (FD), MAFB-429Bu, MAFB-431Bd, MAFB-431Dd, MAFB-431Ds, MAFB-450	Cloromethane	20.7% (RPD)	0-20% (RPD)	M (all results)	RPD recovery for this compound in sample MAFB-352D was outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ MAFB-041, MAFB-056, MAFB-285, MAFB-297, MAFB-300, MAFB-370, MAFB-371C, MAFB-371D, MAFB-372B, MAFB-372D, MAFB-373C, MAFB-373C (FD), MAFB-373D, MAFB-392, MAFB-444, MAFB-445, MAFB-446, MAFB-446 (FD), MAFB-447, MAFB-448	1,2-Dichloroethane 1,2-Dichloropropane Chloroform	137 (%R MS) 126 (%R MSD) 130/129 (%R MS/MSD)	69-132 (%R) 75-125 (%R) 69-128 (%R)	M (all results) M (all results) M (all results)	MS/MSD recoveries for these compounds in sample MAFB-373D were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ MAFB-414, MAFB-414 (FD), MAFB-419, MAFB-428, MAFB-439, MBS EW-10B, MBS EW-10B (FD)	Bromomethane Dichlorodifluoromethane	20.3% (RPD) 22.2% (RPD)	0-20% (RPD) 0-20% (RPD)	M (all results) M (all results)	RPD recoveries for these compounds in sample MBS EW-10B were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ MBS EW-3Bu, MBS EW-4Bu, MBS EW-5D, MBS EW-6D, MBS PTE AF-04/02/09, MBS PTE AF-04/16/09, MBS PTE AF-04/30/09, MBS PTE AF-05/14/09, MBS PTE AF-05/28/09, MBS PTE AF-06/11/09, MBS PTE AF-06/25/09, MBS PTI-04/16/09, MBS PTI-04/16/09 (FD)	Bromomethane	20.5% (RPD)	0-20% (RPD)	M (all results)	RPD recovery for this compound in sample MBS PTI-04/16/09 was outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ FFS MW15-6, MAFB-048, MAFB-214, MAFB-222, MAFB-223, MAFB-242, MAFB-243, MAFB-264, MAFB-362, MAFB-363, MAFB-430, MAFB-442, MBS PZ-12, MBS PZ-13, MBS PZ-14, MBS PZ-15, MBS PZ-44, MBS PZ-49D, MBS PZ-51, MBS PZ-54	1,4-Dichlorobeneze	73 (%R MS)	74-123 (%R)	M (all results)	MS recovery for this compound in sample MBS PZ-44 was outside control limits.	The M flag does not have any significant impact to the data quality.

Mather AR # 2970.1 Page 491 of 1088

TABLE F-1

DATA QUALIFIER SUMMARY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
SW8260/ OFB-57, OFB-67, OFB-68, OFB-69, OFB-69 (FD), OFB-70, OFB-71, OFB-72-06/01/09, OFB-72-06/29/09, OFB-73, OFB-74, OFB-75, OFB-76, OFB-77, OFB-78, OFB-79, OFB-80, OFB-81, OFB-81 (FD), OFB-82, OFB-83	1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloropropane Chloroform Chloromethane cis-1,2-Dichloroethene Trichloroethene	21.3% (RPD) 23.8% (RPD) 26.9% (RPD) 29.3% (RPD) 26.4% (RPD) 28.8% (RPD) 29.5% (RPD)	0-20% (RPD) 0-20% (RPD) 0-20% (RPD) 0-20% (RPD) 0-20% (RPD) 0-20% (RPD) 0-20% (RPD)	M (all results) M (all results) M (all results) M (all results) M (all results) M (all results) M (all results)	RPD recoveries for these compounds in sample OFB-69 were outside control limits.	The M flag does not have any significant impact to the data quality.
USEPA 524.2/ MAFB-271, MAFB-319, MAFB-319 (FD), MAFB-321, MAFB-322, MAFB-323, MAFB-324, MAFB-324 (FD), MAFB-326, MAFB-327, MAFB-328, MAFB-330, MAFB-336, MAFB-337, MAFB-338, MAFB-349	cis-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene Vinyl chloride Vinyl chloride	122 (%R MSD) 138 (%R MSD) 20.8% (RPD) 125 (%R MS) 22.5% (RPD)	80-120 (%R) 80-120 (%R) 0-20% (RPD) 80-120 (%R) 0-20% (RPD)	M (all results) M (all results) M (all results) M (all results) M (all results)	MS/MSD and RPD recoveries for these compounds in sample MAFB-324 were outside control limits.	The M flag does not have any significant impact to the data quality.
USEPA 524.2/ OFB-27, OFB-27 (FD), OFB-31, OFB-32, OFB-49	2,2-Dichloropropane Hexachlorobutadiene	77/65 (%R MS/MSD) 21.2% (RPD)	80-120 (%R) 0-20% (RPD)	M (all results) M (all results)	MS/MSD and RPD recoveries for these compounds in sample OFB-27 were outside control limits.	The M flag does not have any significant impact to the data quality.
USEPA 524.2/ MB-4, OFB-04-04/28/09, OFB-04-05/26/09, OFB-04-06/30/09, OFB-04M-04/28/09, OFB-04M-05/26/09, OFB-04M-06/30/09, OFB-51, OFB-51/52I-04/28/09, OFB-51/52I-05/26/09, OFB-51/52I-06/30/09, OFB-51/52M-04/28/09, OFB-51/52M-05/26/09, OFB-51/52M-06/30/09, OFB-52, OFB-52 (FD), OFB-54, OFB-56	1,2-Dibromo-3-chloropropane 2,2-Dichloropropane Dibromochloromethane Hexachlorobutadiene	27.4% (RPD) 76 (%R MSD) 123 (%R MSD) 69/76 (%R MS/MSD)	0-20% (RPD) 80-120 (%R) 80-120 (%R) 80-120 (%R)	M (all results) M (all results) M (all results) M (all results)	MS/MSD and RPD recoveries for these compounds in sample OFB-52 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8015M/ ACW PTE-04/16/09, ACW PTE-04/16/09 (FD)	TPH as Diesel	44/57 (%R MS/MSD)	61-143 (%R)	M (all results)	MS/MSD recoveries for this compound in sample ACW PTE-04/16/09 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8015M/ MAFB-359, MAFB-414, MAFB-419, MAFB-439, MBS PTE AF-04/16/09, MBS PTI-04/16/09, MBS PTI-04/16/09 (FD)	TPH as Diesel	57 (%R MSD)	61-143 (%R)	M (all results)	MSD recovery for this compound in sample MBS PTI-04/16/09 was outside control limits.	The M flag does not have any significant impact to the data quality.
SW6010/ 7-PZ-37, 7-PZ-37P, 7-PZ-37P (FD), MAFB-044, MAFB-149, MAFB-284, MAFB-413, MAFB-424	Manganese	136/132 (%R MS/MSD)	80-120 (%R)	M (all results)	MS/MSD recoveries for this compound in sample 7-PZ-37P were outside control limits.	The M flag does not have any significant impact to the data quality.

TABLE F-1

DATA QUALIFIER SUMMARY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
SW8270/ 7-PZ-37, 7-PZ-37P, 7-PZ-37P (FD), MAFB-284, MAFB-413, MAFB-440, MAFB-440P	Benzo(b)fluoranthene	126 (%R MSD)	45-124 (%R)	M (all results)	MSD recovery for this compound in sample 7-PZ-37P was outside control limits.	The M flag does not have any significant impact to the data quality.
FIELD DUPLICATE RESULTS						
SW8260/ MAFB-181, MAFB-200, MAFB-200 (FD), MAFB-215, MAFB-215 (FD), MAFB-296, MAFB-329, MAFB-352D, MAFB-366B, MAFB-366D, MAFB-366D (FD), MAFB-425, MAFB-438, MBS PZ-58	Tetrachloroethene	55.5% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-200 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ MAFB-181, MAFB-200, MAFB-200 (FD), MAFB-215, MAFB-215 (FD), MAFB-296, MAFB-329, MAFB-352D, MAFB-366B, MAFB-366D, MAFB-366D (FD), MAFB-425, MAFB-438, MBS PZ-58	Carbon tetrachloride	29.5% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-215 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ FFS EW15-1, FFS EW15-2, FFS MW15-1, FFS MW15-2, FFS MW15-3, MAFB-172, MAFB-173, MAFB-174, MAFB-176, MAFB-232, MAFB-246, MAFB-248, MAFB-265, MAFB-265 (FD), MAFB-313, MAFB-377, MAFB-383B, MAFB-386D, MAFB-429Bd, MAFB-429Bs, MAFB-429Bs (FD), MAFB-429Bu, MAFB-450	1,1-Dichloroethene Carbon tetrachloride Tetrachloroethene Trichloroethene	27.6% (RPD) 141.2% (RPD) 60.0% (RPD) 34.5% (RPD)	0-20% (RPD) 0-20% (RPD) 0-20% (RPD) 0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-265 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ MAFB-282, MAFB-340, MAFB-342, MAFB-357D, MAFB-357D (FD), MAFB-357Dd, MAFB-357Ds, MAFB-358B, MAFB-358D	Tetrachloroethene Trichloroethene	40.0% (RPD) 56.8% (RPD)	0-20% (RPD) 0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-357D exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ MAFB-270, MAFB-293, MAFB-311, MAFB-312, MAFB-318, MAFB-382B, MAFB-382B (FD), MAFB-382D	Carbon tetrachloride Tetrachloroethene	88.9% (RPD) 123.1% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-382B exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ MAFB-090, MAFB-206, MAFB-414, MAFB-414 (FD), MAFB-439	Tetrachloroethene	26.7% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-414 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.

Mather AR # 2970.1 Page 493 of 1088

TABLE F-1

DATA QUALIFIER SUMMARY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
SW8260/ MAFB-013, MAFB-104, MAFB-151, MAFB-175, MAFB-247, MAFB-249, MAFB-258, MAFB-364B, MAFB-364D, MAFB-365B, MAFB-365D, MAFB-369, MAFB-423B, MAFB-423B (FD), MAFB-441, MAFB-451, MAFB-452B, MAFB-452Bu, MBS PZ-37	cis-1,2-Dichloroethene	38.8% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-423B exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ MAFB-259, MAFB-260, MAFB-267, MAFB-268, MAFB-449Bd, MAFB-449Bs, MAFB-457Bd, MAFB-457Bs, MAFB-457Bs (FD), MAFB-458Bd, MAFB-458Bs	cis-1,2-Dichloroethene	27.6% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-457Bs exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ MBS EW-1B, MBS EW-1Bu, MBS EW-1Bu (FD), MBS EW-2D, MBS EW-3D, MBS EW-4Bu, MBS EW-7B, MBS EW-9B, MBS PTI-04/16/09, MBS PTI-40/16/09 (FD)	cis-1,2-Dichloroethene	40.0% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MBS EW-1Bu exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
USEPA 524.2/ OFB-04-04/28/09, OFB-04M-04/28/09, OFB-27, OFB-27 (FD), OFB-31, OFB-32, OFB-49, OFB-51, OFB-51/52I-04/28/09, OFB-51/52M-04/28/09, OFB-52, OFB-52 (FD), OFB-54, OFB-56	Carbon tetrachloride	78.8% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample OFB-52 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
LABORATORY DUPLICATE SAMPLE RESULTS						
No deviations to report						
INTERNAL STANDARD RESULTS						
No deviations to report						
POST DIGESTION SPIKE RESULTS						
No deviations to report						
ICP INTERFERENCE CHECK SAMPLE RESULTS						
SW6010/ 7-EW-1, 7-EW-2, 7-PTE-04/16/09, 7-PTI-04/16/09, 7-PTI-04/16/09 (FD), 7-PZ-23, 7-PZ-24, 7-PZ-25, 7-PZ-26, ACW PTE-04/16/09, ACW PTI-04/16/09, ACW PTI-04/16/09 (FD)	Calcium Magnesium Sodium	NA	NA	J (all detects)	An ICP serial dilution is not associated with these samples.	The J flag does not have any significant impact to the data quality.
SW6010/ MAFB-112, MAFB-131, MAFB-133, MAFB-133 (FD), MAFB-136, MAFB-399, MAFB-440, MAFB-440P	Beryllium	199 (%R)	80-120 (%R)	J (all detects)	ICP serial dilution recovery for this compound in these samples were outside outside control limits.	The J flag does not have any significant impact to the data quality.
BLANK DETECTIONS						

Mather AR # 2970.1 Page 494 of 1088

TABLE F-1

DATA QUALIFIER SUMMARY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
SW8260/ MAFB-387Ds, MAFB-388Dd, MAFB-443, MAFB-459D, MAFB-459Dd	Methylene chloride	NA	NA	B (all detects)	MB-04/14/09 contained 2.1 µg/L of methylene chloride.	The B flag does not have any significant impact to the data quality.
SW8260/ MBS PTE AF-04/02/09	1,4-Dichlorobenzene	NA	NA	B (all detects)	MB-04/09/09 contained 0.44 µg/L of 1,4-dichlorobenzene.	The B flag does not have any significant impact to the data quality.
SW6010/ MAFB-400	Lead	NA	NA	B (all detects)	ICB-04/28/09 contained 2.1 µg/L of lead.	The B flag does not have any significant impact to the data quality.
SW7470/ 7-PZ-37P, 7-PZ-37P (FD)	Mercury	NA	NA	B (all detects)	CCB-04/21/09 contained 0.11 µg/L of mercury.	The B flag does not have any significant impact to the data quality.
HOLDING TIME EXCEEDANCES						
USEPA 376.1/ MAFB-112	Sulfide, total	NA	NA	J (all detects); UJ (all non-detects)	Sample was analyzed 10 minutes outside of the 24 hour holding time for unpreserved samples.	Sample analysis outside of but close to the method specific holding time possibly results in loss of the analyte. Therefore, the data should be considered estimated. Neither the J flag nor the UJ flag have any significant impact to the data quality.
USEPA 376.1/ MAFB-399	Sulfide, total	NA	NA	J (all detects); UJ (all non-detects)	Sample was analyzed 43 minutes outside of the 24 hour holding time for unpreserved samples.	Sample analysis outside of but close to the method specific holding time possibly results in loss of the analyte. Therefore, the data should be considered estimated. Neither the J flag nor the UJ flag have any significant impact to the data quality.

Notes:
%D - Percent Deviation
%R - Percent Recovery
%RSD - Percent Relative Standard Deviation
B - Analyte detected in blank.
CCV - Continuing Calibration Verification
FD - Field Duplicate
ICP - Inductively Coupled Plasma
J - Result is an estimate.
M - Matrix effect was present.
µg/L - Micrograms per liter
MS - Matrix Spike
MSD - Matrix Spike Duplicate
NA - Not Applicable
R - Result is invalid.
RPD - Relative Percent Recovery
UJ - Result is not detected, but is estimated.

TABLE F-2

FIELD DUPLICATE PRECISION STUDY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
7-BV-02	1,1-Dichloroethane	µg/L	0.46	F	0.46	F	0.0
	1,1-Dichloroethene	µg/L	0.44	F	< 0.50		NC
	1,2-Dichlorobenzene	µg/L	0.42	F	0.49	F	15.4
	1,2-Dichloroethane	µg/L	3.2		3.1		3.2
	1,2-Dichloropropane	µg/L	5.0		5.1		2.0
	1,4-Dichlorobenzene	µg/L	0.81		0.77		5.1
	Alkalinity, bicarbonate	mg/L	455		480		5.3
	Alkalinity, total	mg/L	455		480		5.3
	Calcium	µg/L	125,000		126,000		0.8
	Chloride	mg/L	10.2		9.9		3.0
	Chlorobenzene	µg/L	4.2		4.1		2.4
	Chloroform	µg/L	0.14	F	0.15	F	6.9
	cis-1,2-Dichloroethene	µg/L	1.8		1.6		11.8
	Hardness as CaCO3	mg/L	534		506		5.4
	Magnesium	µg/L	70,900		69,800		1.6
	Manganese	µg/L	5.8	F	5.7	F	1.7
	Nitrogen, nitrate	mg/L	2.4		2.3		4.3
	Sodium	µg/L	30,100		29,900		0.7
	Solids, total dissolved	mg/L	807		803		0.5
	Sulfate	mg/L	264	J	265	J	0.4
	Tetrachloroethene	µg/L	2.2		2.2		0.0
	Trichloroethene	µg/L	13		13		0.0
	Vinyl chloride	µg/L	0.52		0.55		5.6
7-BV-02 (RE)	Sulfate	mg/L	210		211		0.5
7-EW-2	1,1-Dichloroethane	µg/L	0.84	F	0.81	F	3.6
	1,1-Dichloroethene	µg/L	0.31	F	0.32	F	3.2
	1,2-Dichloroethane	µg/L	1.2		1.1		8.7
	cis-1,2-Dichloroethene	µg/L	2.3		2.3		0.0
	Methylene chloride	µg/L	0.36	F	< 2.0		NC
	Tetrachloroethene	µg/L	3.2		3.4		6.1
	Trichloroethene	µg/L	23	M	24	M	4.3
7-PTI-04/16/09	1,1-Dichloroethane	µg/L	0.55	F	0.50	F	9.5
	1,2-Dichloroethane	µg/L	0.77		0.68		12.4
	Alkalinity, bicarbonate	mg/L	175		162		7.7
	Alkalinity, total	mg/L	175		162		7.7
	Calcium	µg/L	31,700	J	31,300	J	1.3
	Chloride	mg/L	8.7		8.7		0.0
	cis-1,2-Dichloroethene	µg/L	1.4		1.4		0.0
	Hardness as CaCO3	mg/L	130		145		10.9
	Magnesium	µg/L	15,900	J	15,700	J	1.3
	Methylene chloride	µg/L	0.38	F	< 2.0		NC
	Nitrogen, nitrate	mg/L	2.3		2.3		0.0
7-PTI-04/16/09	Sodium	µg/L	16,800	J	16,600	J	1.2
(continued)	Solids, total dissolved	mg/L	230		225		2.2
	Sulfate	mg/L	19.2		19.2		0.0
	Tetrachloroethene	µg/L	2.3		2.3		0.0
	Trichloroethene	µg/L	17	M	16	M	6.1
	Zinc	µg/L	< 50		10.2	F	NC
7-PZ-37P	1,1-Dichloroethane	µg/L	< 1.0		0.24	F	NC

TABLE F-2

FIELD DUPLICATE PRECISION STUDY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
	Barium	µg/L	75.3		74.8		0.7
	Chromium	µg/L	1.4	F	< 10		NC
	cis-1,2-Dichloroethene	µg/L	< 0.50		0.47	F	NC
	Cobalt	µg/L	< 50		0.78	F	NC
	Copper	µg/L	1.0	F	< 10		NC
	Manganese	µg/L	3,150	M	3,090	M	1.9
	Mercury	µg/L	0.097	BF	0.13	BF	29.1
	Nickel	µg/L	8.1	F	8.8	F	8.3
	Selenium	µg/L	3.2	F	< 5.0		NC
	Silver	µg/L	0.28	F	< 10		NC
	Tetrachloroethene	µg/L	2.8		2.9		3.5
	Thallium	µg/L	0.063	F	0.065	F	3.1
	Trichloroethene	µg/L	3.8		3.7		2.7
	Vanadium	µg/L	5.2	F	5.1	F	1.9
ACW AT-1	Chloroform	µg/L	0.11	F	0.11	F	0.0
	Trichloroethene	µg/L	12	M	11	M	8.7
ACW PTI-04/16/09	Alkalinity, bicarbonate	mg/L	58.4		55.1		5.8
	Alkalinity, total	mg/L	58.4		55.1		5.8
	Calcium	µg/L	10,100	J	9,740	J	3.6
	Chloride	mg/L	3.6		3.6		0.0
	Hardness as CaCO3	mg/L	24.1		28.2		15.7
	Magnesium	µg/L	5,320	J	5,100	J	4.2
	Methylene chloride	µg/L	0.41	F	< 2.0		NC
	Nitrogen, nitrate	mg/L	2.7		2.7		0.0
	Sodium	µg/L	10,500	J	10,000	J	4.9
	Solids, total dissolved	mg/L	132		131		0.8
	Sulfate	mg/L	2.2		2.2		0.0
	Trichloroethene	µg/L	5.6		5.5		1.8
	Zinc	µg/L	5.0	F	2.7	F	59.7*
MAFB-047	Tetrachloroethene	µg/L	< 0.50		0.23	F	NC
MAFB-133	Alkalinity, bicarbonate	mg/L	93.8		94.3		0.5
	Alkalinity, total	mg/L	93.8		94.3		0.5
	Antimony	µg/L	< 60		3.1	F	NC
MAFB-133	Barium	µg/L	21.8		23.9		9.2
(continued)	Chloride	mg/L	4.0		4.0		0.0
	Chloroform	µg/L	0.12	F	0.12	F	0.0
	Chromium	µg/L	2.1	F	5.0	F	81.7*
	cis-1,2-Dichloroethene	µg/L	2.1		2.1		0.0
	Cobalt	µg/L	< 50		1.6	F	NC
	Copper	µg/L	< 10		1.1	F	NC
	Fluoride	mg/L	0.22		0.22		0.0
	Nickel	µg/L	4.6	F	6.4	F	32.7*
	Silver	µg/L	< 10		1.0	F	NC
	Solids, total dissolved	mg/L	175		171		2.3
	Sulfate	mg/L	8.1		8.1		0.0
	Tetrachloroethene	µg/L	4.4		4.6		4.4
	Trichloroethene	µg/L	0.84		0.85		1.2
	Vanadium	µg/L	6.9	F	10.1	F	37.6*

TABLE F-2

FIELD DUPLICATE PRECISION STUDY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
MAFB-155	Chloroform	µg/L	0.24	F	< 0.50		NC
	Trichloroethene	µg/L	0.26	F	< 0.50		NC
MAFB-200	Tetrachloroethene	µg/L	0.99	J	0.56	J	55.5
	Trichloroethene	µg/L	1.9		1.7		11.1
MAFB-215	Carbon tetrachloride	µg/L	2.6	J	3.5	J	29.5
	Chloroform	µg/L	0.54		0.51		5.7
	cis-1,2-Dichloroethene	µg/L	0.50		0.47	F	6.2
	Tetrachloroethene	µg/L	3.8	J	3.6	J	5.4
	Trichloroethene	µg/L	16	M	14	M	13.3
MAFB-216	Chloroform	µg/L	< 0.50		0.18	F	NC
	Tetrachloroethene	µg/L	1.7		1.9		11.1
	Trichloroethene	µg/L	5.2		4.8		8.0
MAFB-265	1,1-Dichloroethene	µg/L	0.66	J	< 0.50	UJ	27.6
	Carbon tetrachloride	µg/L	2.9	J	< 0.50	UJ	141.2
	Chloroform	µg/L	0.56		0.46	F	19.6
	cis-1,2-Dichloroethene	µg/L	0.84		0.77		8.7
	Tetrachloroethene	µg/L	2.6	J	1.4	J	60.0
	Trichloroethene	µg/L	17	J	12	J	34.5
MAFB-301	Trichloroethene	µg/L	2.7		2.9		7.1
MAFB-319	Chloroform	µg/L	0.26	F	0.30	F	14.3
	Tetrachloroethene	µg/L	0.45		0.44		2.2
MAFB-324	Bromodichloromethane	µg/L	0.085	F	0.12	F	34.1*
	Chloroform	µg/L	0.33	F	0.37	F	11.4
	Tetrachloroethene	µg/L	0.19	F	0.17	F	11.1
MAFB-357D	Tetrachloroethene	µg/L	1.4	J	2.1	J	40.0
	Trichloroethene	µg/L	0.95	J	0.53	J	56.8
MAFB-366D	Carbon tetrachloride	µg/L	3.2	J	3.9	J	19.7
	Chloroform	µg/L	0.31	F	0.28	F	10.2
	Tetrachloroethene	µg/L	32	J	32	J	0.0
MAFB-368D	Tetrachloroethene	µg/L	1.3		1.4		7.4
MAFB-373C	cis-1,2-Dichloroethene	µg/L	0.23	F	0.27	F	16.0
	Tetrachloroethene	µg/L	1.4		1.2		15.4
	Trichloroethene	µg/L	10		10		0.0
MAFB-376	Tetrachloroethene	µg/L	19		19		0.0
MAFB-378B	Chloroform	µg/L	0.28	F	< 0.50		NC
MAFB-380B	Chloroform	µg/L	0.31	F	0.29	F	6.7
	Tetrachloroethene	µg/L	0.50		0.51		2.0

TABLE F-2

FIELD DUPLICATE PRECISION STUDY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 6)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
MAFB-382B	Carbon tetrachloride	µg/L	1.3	J	< 0.50	UJ	88.9
	Chloroform	µg/L	0.28	F	< 0.50		NC
	Tetrachloroethene	µg/L	2.1	J	< 0.50	UJ	123.1
MAFB-395	1,1-Dichloroethene	µg/L	0.32	F	< 0.50		NC
	cis-1,2-Dichloroethene	µg/L	0.47	F	0.34	F	32.1*
	Tetrachloroethene	µg/L	2.3		2.2		4.4
	Trichloroethene	µg/L	13	M	12	M	8.0
MAFB-400	Alkalinity, bicarbonate	mg/L	128		123		4.0
	Alkalinity, total	mg/L	128		123		4.0
	Barium	µg/L	76.3		77.5		1.6
	Chloride	mg/L	28.6		28.3		1.1
	Chromium	µg/L	1.7	F	1.7	F	0.0
	cis-1,2-Dichloroethene	µg/L	2.0		1.8		10.5
	Fluoride	mg/L	0.13		0.11		16.7
	Lead	µg/L	2.0	BF	< 3.0		NC
	Solids, total dissolved	mg/L	250		215		15.1
	Sulfate	mg/L	7.0		6.9		1.4
	Tetrachloroethene	µg/L	2.7		2.6		3.8
	Thallium	µg/L	0.024	F	< 1.0		NC
MAFB-400	Trichloroethene	µg/L	0.69		0.59		15.6
(continued)	Vanadium	µg/L	5.4	F	5.5	F	1.8
	Zinc	µg/L	60.5		57.8		4.6
MAFB-401	Trichloroethene	µg/L	4.3		3.9		9.8
MAFB-405	Carbon tetrachloride	µg/L	0.22	F	< 0.50		NC
	Chloroform	µg/L	0.70		0.67		4.4
	Tetrachloroethene	µg/L	4.1		4.2		2.4
	Trichloroethene	µg/L	27		25		7.7
MAFB-411	Tetrachloroethene	µg/L	2.1		2.4		13.3
	Trichloroethene	µg/L	0.35	F	0.38	F	8.2
MAFB-414	Carbon tetrachloride	µg/L	1.5		1.5		0.0
	Chloroform	µg/L	0.41	F	0.42	F	2.4
	cis-1,2-Dichloroethene	µg/L	0.25	F	0.26	F	3.9
	Tetrachloroethene	µg/L	2.6	J	3.4	J	26.7
	Trichloroethene	µg/L	6.7		6.4		4.6
MAFB-423B	Chloroform	µg/L	0.18	F	0.19	F	5.4
	cis-1,2-Dichloroethene	µg/L	0.81	J	1.2	J	38.8
	Tetrachloroethene	µg/L	0.17	F	< 0.50		NC
	Trichloroethene	µg/L	5.3	M	4.5	M	16.3
MAFB-429Bs	1,1-Dichloroethene	µg/L	0.40	FJ	0.38	FJ	5.1
	cis-1,2-Dichloroethene	µg/L	0.74		0.72		2.7
	Tetrachloroethene	µg/L	2.4	J	2.4	J	0.0
	Trichloroethene	µg/L	13	J	14	J	7.4
MAFB-446	1,1-Dichloroethane	µg/L	0.98	F	0.95	F	3.1
	1,1-Dichloroethene	µg/L	1.1		1.0		9.5

TABLE F-2

FIELD DUPLICATE PRECISION STUDY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 6)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
	1,2-Dichlorobenzene	µg/L	0.35	F	0.32	F	9.0
	cis-1,2-Dichloroethene	µg/L	1.6		1.6		0.0
	Tetrachloroethene	µg/L	9.2		8.6		6.7
	trans-1,2-Dichloroethene	µg/L	0.34	F	0.20	F	51.9*
	Trichloroethene	µg/L	53		53		0.0
	Trichlorofluoromethane	µg/L	0.59	F	0.60	F	1.7
MAFB-457Bs	cis-1,2-Dichloroethene	µg/L	< 0.50	UJ	0.66	J	27.6
	Tetrachloroethene	µg/L	2.1		1.8		15.4
	Trichloroethene	µg/L	9.4		10		6.2
MBS EW-1Bu	cis-1,2-Dichloroethene	µg/L	0.80	J	1.2	J	40.0
	Tetrachloroethene	µg/L	0.59		0.58		1.7
MBS EW-1Bu (continued)	Trichloroethene	µg/L	2.0		1.9		5.1
MBS EW-3B	Chloroform	µg/L	0.25	F	0.25	F	0.0
	Tetrachloroethene	µg/L	14		12		15.4
	Trichloroethene	µg/L	5.5		4.9		11.5
MBS EW-10B	Carbon tetrachloride	µg/L	0.38	F	0.31	F	20.3*
	Chloroform	µg/L	0.29	F	0.23	F	23.1*
	Methylene chloride	µg/L	0.57	F	0.45	F	23.5*
	Tetrachloroethene	µg/L	17		18		5.7
	Trichloroethene	µg/L	0.79		0.81		2.5
MBS PTI-04/16/09	Alkalinity, bicarbonate	mg/L	113		110		2.7
	Alkalinity, total	mg/L	113		110		2.7
	Barium	µg/L	58.7		59.5		1.4
	Chloride	mg/L	7.2		7.2		0.0
	Chloroform	µg/L	< 0.50		0.21	F	NC
	Chromium	µg/L	5.0	F	5.0	F	0.0
	cis-1,2-Dichloroethene	µg/L	0.21	FJ	0.19	FJ	10.0
	Copper	µg/L	< 10		1.8	F	NC
	Hardness as CaCO3	mg/L	72.4		85		16.0
	Methylene chloride	µg/L	0.52	F	0.47	F	10.1
	Nitrogen, nitrate	mg/L	3.3		3.3		0.0
	Selenium	µg/L	3.2	F	< 5.0		NC
	Silver	µg/L	0.84	F	0.8	F	4.9
	Solids, total dissolved	mg/L	197		176		11.3
	Sulfate	mg/L	10.0		10.0		0.0
	Tetrachloroethene	µg/L	9.4		9.3		1.1
	Thallium	µg/L	0.059	F	0.088	F	39.5*
	Trichloroethene	µg/L	4.4		4.5		2.2
	Vanadium	µg/L	10.4	F	10.7	F	2.8
	Zinc	µg/L	9.1	F	11.1	F	19.8
MBS PZ-42D	Chloroform	µg/L	0.32	F	< 0.50		NC
	Tetrachloroethene	µg/L	6.4		6.2		3.2
OFB-27	Chloroform	µg/L	0.19	F	0.12	F	45.2*
	Trichloroethene	µg/L	0.044	F	< 0.20		NC

TABLE F-2

FIELD DUPLICATE PRECISION STUDY
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 6)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
OFB-52	Carbon tetrachloride	µg/L	0.46	J	< 0.20	UJ	78.8
	Chloroform	µg/L	0.043	F	< 0.50		NC
	cis-1,2-Dichloroethene	µg/L	0.36	F	0.38	F	5.4
	Tetrachloroethene	µg/L	0.15	F	< 0.20		NC
	Trichloroethene	µg/L	0.25		0.24		4.1

Notes:

In the instance that one result is given as "<" and the other result is given as being a trace value (F), the RPD has been indicated as NC (not calculable).

* As per AFCEE QAPP 4.0.01 validation guidelines, nonconformances with project control limits for trace value (F) data do not require validation flags.

Shaded data indicate nonconformances with project control limits.

B - Analyte detected in blank.
F - Result is below Reporting Limit.
J - Result is an estimate.
M - Matrix effect was present.
µg/L - Micrograms per liter
mg/L - Milligrams per liter
RE - Sample Reanalysis
RPD - Relative Percent Difference
UJ - Result is not detected, but is estimated.

TABLE F-3

COMPLETENESS CALCULATION
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
Mather Groundwater Monitoring Program			
USEPA Method 8260/524.2			
1,1,1,2-Tetrachloroethane	39	39	100%
1,1,1-Trichloroethane	174	174	100%
1,1,2,2-Tetrachloroethane	174	174	100%
1,1,2-Trichloroethane	174	174	100%
1,1-Dichloroethane	174	174	100%
1,1-Dichloroethene	515	515	100%
1,1-Dichloropropene	39	39	100%
1,2,3-Trichlorobenzene	39	39	100%
1,2,3-Trichloropropane	39	39	100%
1,2,4-Trichlorobenzene	39	39	100%
1,2,4-Trimethylbenzene	39	39	100%
1,2-Dibromo-3-chloropropane	39	39	100%
1,2-Dibromoethane	39	39	100%
1,2-Dichlorobenzene	174	174	100%
1,2-Dichloroethane	515	515	100%
1,2-Dichloropropane	515	515	100%
1,3,5-Trimethylbenzene	39	39	100%
1,3-Dichlorobenzene	174	174	100%
1,3-Dichloropropane	39	39	100%
1,4-Dichlorobenzene	515	515	100%
2,2-Dichloropropane	39	39	100%
2-Chlorotoluene	39	39	100%
4-Chlorotoluene	39	39	100%
Benzene	174	174	100%
Bromobenzene	39	39	100%
Bromochloromethane	39	39	100%
Bromodichloromethane	174	174	100%
Bromoform	174	174	100%
Bromomethane	174	174	100%
Carbon tetrachloride	515	515	100%
Chlorobenzene	174	174	100%
Chloroethane	174	174	100%
Chloroform	515	515	100%
Chloromethane	515	515	100%
cis-1,2-Dichloroethene	515	515	100%
cis-1,3-Dichloropropene	174	174	100%
Dibromochloromethane	174	174	100%
Dibromomethane	39	39	100%
Dichlorodifluoromethane	174	174	100%
Ethylbenzene	174	174	100%
USEPA Method 8260/524.2 (continued)			
Hexachlorobutadiene	39	39	100%
Isopropylbenzene	39	39	100%
Methylene chloride	174	174	100%
n-Butylbenzene	39	39	100%
n-Propylbenzene	39	39	100%
Naphthalene	39	39	100%
p-Isopropyltoluene	39	39	100%

TABLE F-3

COMPLETENESS CALCULATION
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 4)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
sec-Butylbenzene	39	39	100%
Styrene	39	39	100%
t-Butylbenzene	39	39	100%
Tetrachloroethene	516	516	100%
Toluene	174	174	100%
trans-1,2-Dichloroethene	174	174	100%
trans-1,3-Dichloropropene	174	174	100%
Trichloroethene	516	516	100%
Trichlorofluoromethane	174	174	100%
Vinyl chloride	515	514	99.8%
Xylenes, total	174	174	100%
USEPA Method 8015 Modified			
TPH as diesel	24	24	100%
TPH as gasoline	31	31	100%
USEPA Method 8081			
Aldrin	5	5	100%
Alpha endosulfan	5	5	100%
alpha-BHC	5	4	80.0%
alpha-Chlordane	5	5	100%
Beta endosulfan	5	5	100%
beta-BHC	5	5	100%
delta-BHC	5	5	100%
Dieldrin	5	5	100%
Endosulfan sulfate	5	5	100%
Endrin	5	5	100%
Endrin aldehyde	5	5	100%
gamma-BHC (Lindane)	5	5	100%
gamma-Chlordane	5	5	100%
Heptachlor	5	5	100%
Heptachlor epoxide	5	5	100%
Methoxychlor	5	5	100%
p,p'-DDD	5	5	100%
p,p'-DDE	5	5	100%
USEPA Method 8081 (continued)			
p,p'-DDT	5	5	100%
Toxaphene	5	5	100%
USEPA Method 8082			
PCB-1016 (Arochlor 1016)	5	5	100%
PCB-1221 (Arochlor 1221)	5	5	100%
PCB-1232 (Arochlor 1232)	5	5	100%
PCB-1242 (Arochlor 1242)	5	5	100%
PCB-1248 (Arochlor 1248)	5	5	100%
PCB-1254 (Arochlor 1254)	5	5	100%
PCB-1260 (Arochlor 1260)	5	5	100%
USEPA Method 8270			
2-Methylnaphthalene	7	7	100%
Acenaphthene	7	7	100%

TABLE F-3

COMPLETENESS CALCULATION
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 4)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
Acenaphthylene	7	7	100%
Anthracene	7	7	100%
Benzo(a)anthracene	7	7	100%
Benzo(a)pyrene	7	7	100%
Benzo(b)fluoranthene	7	7	100%
Benzo(g,h,i)perylene	7	7	100%
Benzo(k)fluoranthene	7	7	100%
Chrysene	7	7	100%
Dibnez(a,h)anthracene	7	7	100%
Fluoranthene	7	7	100%
Fluorene	7	7	100%
Indeno(1,2,3-c,d)pyrene	7	7	100%
Naphthalene	7	7	100%
Phenanthrene	7	7	100%
Pyrene	7	7	100%
USEPA Method 6010			
Antimony	29	29	100%
Arsenic	29	29	100%
Barium	29	29	100%
Beryllium	29	29	100%
Cadmium	29	29	100%
Calcium	19	19	100%
Chromium	29	29	100%
Cobalt	29	29	100%
Copper	48	48	100%
Iron	19	19	100%
USEPA Method 6010 (continued)			
Lead	32	32	100%
Magnesium	19	19	100%
Manganese	48	48	100%
Nickel	31	31	100%
Selenium	29	29	100%
Silver	29	29	100%
Sodium	19	19	100%
Vanadium	29	29	100%
Zinc	48	48	100%
USEPA Method 6020			
Thallium	29	29	100%
USEPA Method 7470			
Mercury	29	29	100%
Standard Method 2320			
Alkalinity, total	37	37	100%
USEPA Method 130.2			
Hardness as CaCO3	22	22	100%
USEPA Method 160.1			

TABLE F-3

COMPLETENESS CALCULATION
SECOND QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 4)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
Total Filterable Residue	37	37	100%
USEPA 160.2			
Total Suspended Solids	3	3	100%
USEPA Method 300.0			
Chloride	37	37	100%
Nitrate	22	22	100%
Sulfate	44	44	100%
USEPA Method 314.0			
Perchlorate	4	4	100%
USEPA 340.2			
Fluoride	15	15	100%
USEPA 376.1			
Total sulfide	15	15	100%
USEPA 7196			
Hexavalent Chromium	10	10	100%
Overall Completeness	11656	11654	99.98%

Notes:
TPH - Total Petroleum Hydrocarbons
USEPA - United States Environmental Protection Agency

APPENDIX G

THIRD QUARTER 2009 ANALYTICAL DATA

SITEWIDE GROUNDWATER MONITORING

MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

THIRD QUARTER 2009
ANALYTICAL DATA REPORT

Contract FA8903-08-D-8777, Task Order 34
MWH Americas, Inc. File No.: 1951161.
CDRL A001F

Prepared for:
Air Force Center for Environmental Excellence
Brooks Air Force Base, Texas

Prepared by:

MWH Americas, Inc.
AFCEE Full Service Remedial Action Contract Management Office
Walnut Creek, California

April 2010

TABLE OF CONTENTS

Section		Page
1.0	INTRODUCTION	1-1
2.0	ANALYTICAL RESULTS	2-1
3.0	CROSS-REFERENCE TABLE	3-1
4.0	HOLDING TIMES	4-1
5.0	QA/QC SUMMARY REPORT	5-1
6.0	CHAIN-OF-CUSTODY FORMS	6-1
REFERENCES		R-1

LIST OF TABLES
(Tables follow sections)

Table No.	
1-1	ANALYTICAL METHODS UTILIZED
2-1	ANALYTICAL DATA SUMMARY
2-1.1	Monitoring and Extraction Wells; USEPA Method 8260 - Volatile Organic Compounds
2-1.2	ACW Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.3	MBSAC Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.4	Site 7 Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.5	USEPA Method 524.2 - Volatile Organic Compounds
2-1.6	Monitoring and Extraction Wells; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.7	ACW Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
2-1.8	MBSAC Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.9	Site 7 Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.10	Monitoring and Extraction Wells; Metals
2-1.11	ACW Pump and Treat Effluent/Influent; Metals
2-1.12	MBSAC Pump and Treat Effluent/Influent; Metals
2-1.13	Site 7 Pump and Treat Effluent/Influent; Metals
2-1.14	Monitoring and Extraction Wells; General Chemistry
2-1.15	ACW Pump and Treat Effluent/Influent; General Chemistry
2-1.16	MBSAC Pump and Treat Effluent/Influent; General Chemistry
2-1.17	Site 7 Pump and Treat Effluent/Influent; General Chemistry
2-2	SURROGATE PERCENT RECOVERY SUMMARY
2-2.1	USEPA Method 8260 - Volatile Organic Compounds
2-2.2	USEPA Method 524.2 - Volatile Organic Compounds
2-2.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
2-2.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
3-1	FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
4-1	SUMMARY OF EXTRACTION AND ANALYSIS DATES
4-1.1	USEPA Method 8260 - Volatile Organic Compounds
4-1.2	USEPA Method 524.2 - Volatile Organic Compounds
4-1.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
4-1.4	USEPA Method 6010 - ICP Metals
4-1.5	USEPA Method 6020 - Thallium USEPA Method 7470 - Mercury

LIST OF TABLES
(Continued)

Table No.	
4-1.6	Standard Method 2320 - Alkalinity
	USEPA Method 130.2 - Hardness
4-1.7	USEPA Method 160.1 - Total Filterable Residue
	USEPA Method 160.2 - Total Suspended Solids
4-1.8	USEPA Method 300.0 - Chloride, Nitrate, and Sulfate
	USEPA Method 314.0 - Perchlorate
4-1.9	USEPA Method 340.2 - Fluoride
	USEPA Method 376.1 - Total Sulfide
4.1.10	USEPA Method 7196 - Hexavalent Chromium
5-1	SAMPLE BATCHING SUMMARY
5-1.1	Analytical Batch Summary
5-1.2	Matrix Spike and Matrix Spike Duplicate Batch Summary
5-2	LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
5-2.1	USEPA Method 8260 - Volatile Organic Compounds
5-2.2	USEPA Method 524.2 - Volatile Organic Compounds
5-2.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
5-2.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
5-2.5	Metals
5-2.6	General Chemistry
5-3	MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
5-3.1	USEPA Method 8260 - Volatile Organic Compounds
5-3.2	USEPA Method 524.2 - Volatile Organic Compounds
5-3.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
5-3.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
5-3.5	Metals
5-3.6	General Chemistry
5-4	LABORATORY DUPLICATE SUMMARY; General Chemistry

1.0 INTRODUCTION

In accordance with Task Order 34, Contract No. FA8903-08-D-8777, MWH Americas, Inc., (MWH; formerly Montgomery Watson) has prepared this Third Quarter 2009 Analytical Data Report (ADR) for the Mather and Landfill groundwater sampling, and AC&W, Main Base/SAC area, Site 7, and Off-Base performance monitoring at the former Mather Air Force Base (AFB), California. This ADR provides a tabular summary of the analytical data associated with routine groundwater monitoring samples as well as biweekly and monthly treatment system samples taken from July 9, 2009, through September 29, 2009. The analytical quality control (QC) program used to assess chemical data presented in this ADR is discussed in the Final Basewide Groundwater Monitoring Sampling and Analysis Plan (SAP) (Montgomery Watson, 1997a), the Final AC&W Site Sampling and Analysis Plan (Montgomery Watson, 1997b), the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Off-Base Sampling (Montgomery Watson, 1997c), the Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Main Base/SAC Performance Sampling – Revision 1 (Montgomery Watson, 2000), and the Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Site 7 Performance Sampling (Montgomery Watson, 1999).

The tables presented in this ADR are grouped to correspond with the outline presented in Appendix A, Tab 6 of the AFCEE Handbook for the Installation Restoration Program (IRP) Remedial Investigations and Feasibility Studies (RI/FS) ("the Handbook") (AFCEE, 1993). The ADR table formats presented in the Handbook have been altered to facilitate more efficient data organization; however, the information presented in this ADR is equivalent to that contained in the table formats suggested by the Handbook. Differences in table format are explained in the text of each individual section. A complete list of all analytical methods utilized for this project is presented in Table 1-1.

Shaded data indicate nonconformances with project control limits.

Unless otherwise noted, all metals data is reported as dissolved metals.

TABLE 1-1

ANALYTICAL METHODS UTILIZED
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analytical Parameter	Method	Matrix
VOCs	USEPA 8260	Water
VOCs	USEPA 524.2	Water
Purgeable TPH as Gasoline	USEPA 8015 Modified	Water
Extractable TPH as Diesel	USEPA 8015 Modified	Water
ICP Metals	USEPA 6010	Water
Thallium	USEPA 6020	Water
Mercury by Atomic Absorption	USEPA 7470	Water
Total Alkalinity	SM 2320	Water
Hardness	USEPA 130.2	Water
Total Filterable Residue	USEPA 160.1	Water
Total Suspended Solids	USEPA 160.2	Water
Anions (Chloride, Nitrate, and Sulfate)	USEPA 300.0	Water
Perchlorate	USEPA 314.0	Water
Fluoride	USEPA 340.2	Water
Total Sulfide	USEPA 376.1	Water
Hexavalent Chromium	USEPA 7196	Water

Notes:
ICP - Inductively Coupled Plasma
SM - Standard Methods, 19th edition
TPH - Total Petroleum Hydrocarbons
USEPA - United States Environmental Protection Agency
VOCs - Volatile Organic Compounds

2.0 ANALYTICAL RESULTS

The tables presented in this section correspond to Table A-4 of the Handbook (Appendix A, Tab 6).

Table A-4 of the Handbook has been separated into two distinct table types for this report. The Analytical Data Summary (Tables 2-1.1 through 2-1.17) contains the results for all environmental field samples and field sample duplicates. Trip blank sample results are also included in these 17 tables. The Surrogate Percent Recovery Summary (Tables 2-2.1 through 2-2.4) separates surrogate recovery information from all other analytical data.

All results have been subjected to data verification. Results determined to be not detected, but estimated, have been flagged with a "UJ." Results determined to be estimated values have been flagged with a "J." Results considered not usable have been flagged with an "R." Results reported between the method detection limit and the practical quantitation limit have been flagged with an "F." Results determined to have matrix effects have been flagged with an "M." Results for analytes found in associated method or trip blanks, as well as in the associated sample, have been flagged with a "B."

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-PZ-37		7-PZ-37P		7-PZ-37P (FD)		ACW PZ-05		ACW R2		MAFB-132		MAFB-133	MAFB-133 (FD)
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
1,1-Dichloroethane	0.26	F	0.46	F	0.50	F	NA		NA		NA		NA	NA
1,1-Dichloroethene	0.38	F	0.53		0.47	F	< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		NA		NA		NA		NA	NA
1,2-Dichloroethane	1.0		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichloropropane	0.90	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		NA		NA		NA		NA	NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Benzene	< 0.50		< 0.50		< 0.50		NA		NA		NA		NA	NA
Bromodichloromethane	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
Bromoform	< 2.0		< 2.0		< 2.0		NA		NA		NA		NA	NA
Bromomethane	< 10		< 10		< 10		NA		NA		NA		NA	NA
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Chlorobenzene	< 2.5		< 2.5		< 2.5		NA		NA		NA		NA	NA
Chloroethane	< 5.0		< 5.0		< 5.0		NA		NA		NA		NA	NA
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		0.38	F	0.13	F	< 0.50	< 0.50
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,2-Dichloroethene	0.53		0.54		0.53		< 0.50		< 0.50		17		2.1	1.9
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
Dibromochloromethane	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		NA		NA		NA		NA	NA
Ethylbenzene	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
Methylene chloride	< 2.0		< 2.0		< 2.0		NA		NA		NA		NA	NA
Tetrachloroethene	3.5		4.7		4.2		< 0.50		< 0.50		14		5.4	4.8
Toluene	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
Trichloroethene	23		6.3		6.3		0.41	FM	< 0.50	M	2.8		0.83	0.79
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Xylenes, total	< 1.0		< 1.0		< 1.0		NA		NA		NA		NA	NA

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-136		MAFB-149		MAFB-284		MAFB-293		MAFB-318		MAFB-354B		MAFB-354D	MAFB-378B
1,1,1-Trichloroethane	NA		NA		< 1.0		NA		NA		NA		NA	NA
1,1,2,2-Tetrachloroethane	NA		NA		< 1.0		NA		NA		NA		NA	NA
1,1,2-Trichloroethane	NA		NA		< 1.0		NA		NA		NA		NA	NA
1,1-Dichloroethane	NA		NA		< 1.0		NA		NA		NA		NA	NA
1,1-Dichloroethene	< 0.50		0.47	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichlorobenzene	NA		NA		< 2.0		NA		NA		NA		NA	NA
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	NA		NA		< 3.0		NA		NA		NA		NA	NA
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Benzene	NA		NA		< 0.50		NA		NA		NA		NA	NA
Bromodichloromethane	NA		NA		< 1.0		NA		NA		NA		NA	NA
Bromoform	NA		NA		< 2.0		NA		NA		NA		NA	NA
Bromomethane	NA		NA		< 10		NA		NA		NA		NA	NA
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		0.39	F	4.0		< 0.50		< 0.50	< 0.50
Chlorobenzene	NA		NA		< 2.5		NA		NA		NA		NA	NA
Chloroethane	NA		NA		< 5.0		NA		NA		NA		NA	NA
Chloroform	0.076	F	< 0.50		< 0.50		< 0.50		0.34	F	< 0.50		< 0.50	0.54
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,2-Dichloroethene	6.3		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
cis-1,3-Dichloropropene	NA		NA		< 1.0		NA		NA		NA		NA	NA
Dibromochloromethane	NA		NA		< 1.0		NA		NA		NA		NA	NA
Dichlorodifluoromethane	NA		NA		< 4.0		NA		NA		NA		NA	NA
Ethylbenzene	NA		NA		< 1.0		NA		NA		NA		NA	NA
Methylene chloride	NA		NA		< 2.0		NA		NA		NA		NA	NA
Tetrachloroethene	7.1		< 0.50		0.63		< 0.50	M	2.3	M	< 0.50		< 0.50	< 0.50
Toluene	NA		NA		< 1.0		NA		NA		NA		NA	NA
trans-1,2-Dichloroethene	NA		NA		< 1.0		NA		NA		NA		NA	NA
trans-1,3-Dichloropropene	NA		NA		< 1.0		NA		NA		NA		NA	NA
Trichloroethene	1.9		< 0.50		3.1		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Trichlorofluoromethane	NA		NA		< 1.0		NA		NA		NA		NA	NA
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50
Xylenes, total	NA		NA		< 1.0		NA		NA		NA		NA	NA

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-378B (FD)	MAFB-378D	MAFB-388Ds	MAFB-397	MAFB-413	MAFB-424		MAFB-426		MAFB-435	
1,1,1-Trichloroethane	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
1,1,2-Trichloroethane	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
1,1-Dichloroethane	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA	NA	NA	NA	< 2.0	< 2.0		NA		< 2.0	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA	NA	NA	NA	< 3.0	< 3.0		NA		< 3.0	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Benzene	NA	NA	NA	NA	< 0.50	< 0.50		NA		< 0.50	
Bromodichloromethane	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
Bromoform	NA	NA	NA	NA	< 2.0	< 2.0		NA		< 2.0	
Bromomethane	NA	NA	NA	NA	< 10	< 10		NA		< 10	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		0.83		1.9	
Chlorobenzene	NA	NA	NA	NA	< 2.5	< 2.5		NA		< 2.5	
Chloroethane	NA	NA	NA	NA	< 5.0	< 5.0		NA		< 5.0	
Chloroform	0.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		0.12	F
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
Dibromochloromethane	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
Dichlorodifluoromethane	NA	NA	NA	NA	< 4.0	< 4.0		NA		< 4.0	
Ethylbenzene	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
Methylene chloride	NA	NA	NA	NA	< 2.0	< 2.0		NA		< 2.0	
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40	F	< 0.50	M	15	M
Toluene	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
trans-1,2-Dichloroethene	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
trans-1,3-Dichloropropene	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	
Trichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Trichlorofluoromethane	NA	NA	NA	NA	< 1.0	22		NA		< 1.0	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Xylenes, total	NA	NA	NA	NA	< 1.0	< 1.0		NA		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-438		MAFB-439		MAFB-439 (FD)		MAFB-441		MAFB-442	MAFB-443	MAFB-444		MAFB-445	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	< 3.0	< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10	< 10	< 10		< 10	
Carbon tetrachloride	< 0.50		12		11		< 0.50	UJ	< 0.50	< 0.50	< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	< 2.5	< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	< 5.0	< 5.0		< 5.0	
Chloroform	< 0.50		0.87		0.86		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,2-Dichloroethene	0.97		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	< 4.0	< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	
Tetrachloroethene	4.5		61	M	59	M	< 0.50	M	< 0.50	< 0.50	0.26	F	0.51	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Trichloroethene	0.48	F	0.17	F	0.17	F	< 0.50		< 0.50	< 0.50	1.4	M	2.9	M
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-446		MAFB-446 (FD)		MAFB-447		MAFB-448		MAFB-449Bd		MAFB-449Bs		MAFB-450		MAFB-451	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	0.84	F	0.96	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	1.1		1.0		0.38	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	0.39	F	0.41	F	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	0.41	F	0.47	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	UJ
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	1.7		1.6		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.96	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	9.4		9.2		1.9		1.3		< 0.50		< 0.50		0.22	FM	2.6	M
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	48	M	50	M	15	M	8.3	M	< 0.50		< 0.50		< 0.50		14	
Trichlorofluoromethane	0.57	F	0.53	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-452B		MAFB-452Bu		MAFB-453		MAFB-453C		MAFB-454		MAFB-454C		MAFB-455		MAFB-456	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	1.9		0.52		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50	UJ	< 0.50	UJ	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	1.7		3.0		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	15	M	5.7	M	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	51		19		1.6	M	4.2	M	1.1	M	4.5	M	< 0.50	M	0.53	M
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-456C		MAFB-457Bd		MAFB-457Bs		MAFB-457Bs (FD)		MAFB-458Bd		MAFB-458Bs		MAFB-459D		MAFB-459Dd	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		0.33	F	0.46	F	0.24	F	0.26	F	< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		2.0		2.2		0.87		0.67		< 0.50	M	< 0.50	M
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	2.0	M	< 0.50		9.6		10		5.4		4.3		< 0.50		< 0.50	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MBS EW-13BuB		OFB-72		OFB-80	TB-07/09/09	TB-07/13/09	TB-07/14/09	TB-07/15/09	TB-07/16/09	
1,1,1-Trichloroethane	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
1,1,2-Trichloroethane	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
1,1-Dichloroethane	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichlorobenzene	< 2.0		NA		NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	< 3.0		NA		NA	< 3.0	< 3.0	< 3.0	NA	< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Benzene	< 0.50		NA		NA	< 0.50	< 0.50	< 0.50	NA	< 0.50	
Bromodichloromethane	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
Bromoform	< 2.0		NA		NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	
Bromomethane	< 10		NA		NA	< 10	< 10	< 10	NA	< 10	
Carbon tetrachloride	< 0.50	UJ	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chlorobenzene	< 2.5		NA		NA	< 2.5	< 2.5	< 2.5	NA	< 2.5	
Chloroethane	< 5.0		NA		NA	< 5.0	< 5.0	< 5.0	NA	< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.21	F
Chloromethane	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
cis-1,2-Dichloroethene	1.0		0.24	F	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
cis-1,3-Dichloropropene	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
Dibromochloromethane	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
Dichlorodifluoromethane	< 4.0		NA		NA	< 4.0	< 4.0	< 4.0	NA	< 4.0	
Ethylbenzene	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
Methylene chloride	< 2.0		NA		NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	
Tetrachloroethene	3.3		0.48	F	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Toluene	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
trans-1,2-Dichloroethene	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
trans-1,3-Dichloropropene	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
Trichloroethene	18		3.0		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Trichlorofluoromethane	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, total	< 1.0		NA		NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 521 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-07/20/09	TB-07/23/09	TB-08/06/09	TB-08/17/09	TB-08/20/09	TB-09/03/09	TB-09/17/09
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	NA	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50	NA	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10	< 10	NA	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5	NA	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	0.19 F	0.29 F	< 0.50	0.28 F
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	NA	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0	0.44 F	NA	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.2

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	07/09/09		07/23/09				08/06/09		08/20/09		09/03/09		09/17/09	
	ACW PTE		ACW PTE		ACW PTI		ACW PTI (FD)		ACW PTE		ACW PTE		ACW PTE	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50	M	< 0.50	M	6.9	M	6.2	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.3

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY,
CALIFORNIA

Analyte (µg/L)	07/09/09	07/23/09					08/06/09	08/20/09	09/03/09	09/17/09
	MBS PTE AF	MBS PTE AF		MBS PTI		MBS PTI (FD)	MBS PTE AF	MBS PTE AF	MBS PTE AF	MBS PTE AF
1,1,1-Trichloroethane	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0		< 3.0		< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10		< 10		< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	UJ	0.86	J	0.61	J	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5		< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50		0.16	F	0.23	F	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0		< 4.0		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50		9.5		11	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50		4.7		5.5	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
µg/L - Micrograms per liter
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.4

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	07/09/09		07/23/09				08/06/09		08/20/09		09/03/09		09/17/09	
(µg/L)	7-PTE		7-PTE		7-PTI		7-PTI (FD)		7-PTE		7-PTE		7-PTE		7-PTE	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		1.9		1.9		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		2.7		2.4		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50	M	< 0.50	M	22	M	23	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 22)

Analyte (µg/L)	MAFB-271		MAFB-319		MAFB-319 (FD)		MAFB-321	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M
Chloroform	0.44	F	0.31	F	0.33	F	< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.47	M	0.62	M	0.72	M	< 0.20	M

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 22)

Analyte (µg/L)	MAFB-271		MAFB-319		MAFB-319 (FD)		MAFB-321	
Toluene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Trichloroethene	< 0.20	M	< 0.20	M	< 0.20	M	< 0.20	M
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 0.50		< 0.50		< 0.50		< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 22)

Analyte (µg/L)	MAFB-322		MAFB-324		MAFB-324 (FD)		MAFB-326	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	0.072	F	< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	0.078 (a)	BF	< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	0.087 (a)	BF	< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	0.097 (a)	BF	< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
2-Chlorotoluene	0.069	F	< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	0.10	F	< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	M
Chloroform	0.13	F	0.35	F	0.38	F	< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	0.20	FM	< 0.50	M	< 0.50	M	< 0.50	M
Ethylbenzene	0.088	F	< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	0.065 (a)	BF	< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	0.17 (a)	BF	< 0.50		< 0.50		< 0.50	
n-Propylbenzene	0.079 (a)	BF	< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	0.095 (a)	BF	< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	0.097 (a)	BF	< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.16	FM	0.30	M	0.27	M	< 0.20	M

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 22)

Analyte (µg/L)	MAFB-322		MAFB-324		MAFB-324 (FD)		MAFB-326	
Toluene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Trichloroethene	< 0.20	M	< 0.20	M	< 0.20	M	< 0.20	M
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	0.13	F	< 0.50		< 0.50		< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 22)

Analyte (µg/L)	MAFB-328		MAFB-337		MAFB-338		OFB-04 07/28/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		0.085	F
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	M
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		0.059	F	< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		0.069 (a)	BF	< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		0.066 (a)	BF	< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		0.085	F
Bromoform	< 0.50		< 0.50		< 0.50		0.13	F
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		0.26	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	
Chloroform	0.31	F	< 0.50		< 0.50		0.11	F
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		0.16	F
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
Ethylbenzene	< 0.50		< 0.50		0.045	F	< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		0.17 (a)	BF	< 0.50	
n-Propylbenzene	< 0.50		< 0.50		0.072 (a)	BF	< 0.50	
Naphthalene	< 0.50		< 0.50		0.11	F	< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		0.12 (a)	BF	< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		0.079 (a)	BF	< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.10	FM	< 0.20	M	0.16	FM	0.067	F

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 22)

Analyte (µg/L)	MAFB-328		MAFB-337		MAFB-338		OFB-04 07/28/09
Toluene	< 0.50		< 0.50		0.16	F	< 0.50
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50
trans-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50
Trichloroethene	< 0.20	M	< 0.20	M	< 0.20	M	< 0.20
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50
Xylenes, total	< 0.50		< 0.50		0.13	F	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 22)

Analyte (µg/L)	OFB-04 08/25/09		OFB-04 09/29/09		OFB-04M 07/28/09		OFB-04M 08/25/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		0.082	F	< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		0.16	F	0.10	F	0.17	F
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.054	F	< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 22)

Analyte (µg/L)	OFB-04 08/25/09	OFB-04 09/29/09	OFB-04M 07/28/09	OFB-04M 08/25/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 22)

Analyte (µg/L)	OFB-04M 09/29/09		OFB-27		OFB-27 (FD)		OFB-31	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		0.061	F	0.073	F	0.087	F
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	M
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	M
Chloroform	< 0.50		0.16	F	0.17	F	0.14	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	M
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	M
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		0.058	F	0.052	F	0.15	FM

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 22)

Analyte (µg/L)	OFB-04M 09/29/09	OFB-27		OFB-27 (FD)		OFB-31	
Toluene	< 0.50	< 0.50		< 0.50		< 0.50	
trans-1,2-Dichloroethene	< 0.50	< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50	< 0.50		< 0.50		< 0.50	
Trichloroethene	< 0.20	0.045	F	0.057	F	0.072	FM
Trichlorofluoromethane	< 0.50	< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50	< 0.50		< 0.50		< 0.50	
Xylenes, total	< 0.50	< 0.50		< 0.50		< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 22)

Analyte (µg/L)	OFB-32		OFB-49		OFB-51		OFB-51/52E 08/06/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		0.14	F
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	M
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		0.085	F	< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		0.53		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	
Chloroform	< 0.50		< 0.50		0.080	F	0.053	F
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		0.18 (b)	BFM
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	M	< 0.20	M	< 0.20	M	< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 22)

Analyte (µg/L)	OFB-32		OFB-49		OFB-51		OFB-51/52E 08/06/09	
Toluene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Trichloroethene	< 0.20	M	< 0.20	M	< 0.20	M	< 0.20	
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 0.50		< 0.50		< 0.50		< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 22)

Analyte (µg/L)	OFB-51/52E 08/11/09		OFB-51/52E 08/25/09		OFB-51/52E 09/29/09		OFB-51/52I 07/28/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	0.14	F	0.16	F	< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		0.078	F
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		0.34	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.070	F	< 0.50		0.084	F	0.050	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	0.50 (c)	BM	< 0.50	M	< 0.50	M	< 0.50	M
n-Butylbenzene	< 0.50		0.13	F	< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 14 of 22)

Analyte (µg/L)	OFB-51/52E 08/11/09	OFB-51/52E 08/25/09	OFB-51/52E 09/29/09	OFB-51/52I 07/28/09	
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	
Trichloroethene	< 0.20	< 0.20	< 0.20	0.033	F
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 15 of 22)

Analyte (µg/L)	OFB-51/52I 08/25/09		OFB-51/52I 09/29/09		OFB-51/52M 07/28/09		OFB-51/52M 08/06/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		0.17	F	< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		0.088	F	< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.28		0.37		0.20		0.12	F
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		0.11	F	0.082	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		0.19	F	0.17	F
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50	M	< 0.50	M	< 0.50	M	0.16 (b)	BFM
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 16 of 22)

Analyte (µg/L)	OFB-51/52I 08/25/09	OFB-51/52I 09/29/09	OFB-51/52M 07/28/09	OFB-51/52M 08/06/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 17 of 22)

Analyte (µg/L)	OFB-51/52M 08/11/09		OFB-51/52M 08/25/09		OFB-51/52M 09/29/09		OFB-52	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		0.071	F
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	M
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.20		0.19	F	0.16	F	0.19	F
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	M
Chloroform	0.092	F	0.099	F	0.092	F	0.062	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	M
cis-1,2-Dichloroethene	0.17	F	0.19	F	0.21	F	0.28	F
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	M
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	0.56 (c)	BM	< 0.50	M	< 0.50	M	< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		0.082	F	< 0.20		0.12	FM

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 18 of 22)

Analyte (µg/L)	OFB-51/52M 08/11/09	OFB-51/52M 08/25/09	OFB-51/52M 09/29/09	OFB-52	
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	
Trichloroethene	< 0.20	< 0.20	< 0.20	0.17	FM
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 19 of 22)

Analyte (µg/L)	OFB-52 (FD)		OFB-54		OFB-56		TB-07/15/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	0.073	F	< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.24		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0	M	< 1.0	M	< 1.0	M	< 1.0	
Chloroform	0.068	F	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
cis-1,2-Dichloroethene	0.30	F	< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		0.16	F
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	0.13	FM	< 0.20	M	< 0.20	M	< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 20 of 22)

Analyte (µg/L)	OFB-52 (FD)		OFB-54		OFB-56		TB-07/15/09	
Toluene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
trans-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Trichloroethene	0.18	FM	< 0.20	M	< 0.20	M	< 0.20	
Trichlorofluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 0.50		< 0.50		< 0.50		< 0.50	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 µg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 21 of 22)

Analyte (µg/L)	TB-07/28/09	TB-08/06/09	TB-08/11/09	TB-08/25/09	TB-09/29/09
1,1,1,2-Tetrachloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	< 0.50	< 0.50	< 0.50	0.13 F	< 0.50
1,2,3-Trichloropropane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	< 0.50	< 0.50	0.12 F	0.14 F	< 0.50
1,2,4-Trimethylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-chloropropane	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorotoluene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Chlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	0.11 F	0.20 F	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromochloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene chloride	< 0.50	0.49 F	0.53	< 0.50	< 0.50
n-Butylbenzene	< 0.50	< 0.50	< 0.50	0.15 F	< 0.50
n-Propylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
p-Isopropyltoluene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 22 of 22)

Analyte (μg/L)	TB-07/28/09	TB-08/06/09	TB-08/11/09	TB-08/25/09	TB-09/29/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
MB - Method Blank
μg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank

(a) MB-07/21/09 contained 0.086 μg/L of 1,3,5-trimethylbenzene, 0.088 μg/L of 1,3-dichlorobenzene, 0.10 μg/L of 1,4-dichlorobenzene, 0.054 μg/L of isopropylbenzene, 0.23 μg/L of n-butylbenzene, 0.099 μg/L of n-propylbenzene, 0.15 μg/L of p-isopropyltoluene, and 0.12 μg/L of sec-butylbenzene.
(b) MB-08/07/09 contained 0.33 μg/L of methylene chloride.
(c) MB-08/12/09 contained 0.47 μg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-PZ-37		7-PZ-37P	7-PZ-37P (FD)	MAFB-149	MAFB-284	MAFB-413	MAFB-439		TB-07/09/09
TPH, diesel-range	< 50		< 50	< 50	< 50	< 50	< 50	< 50	M	NA
TPH, gasoline-range	16	F	< 50	< 50	< 50	< 50	< 50	29	F	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-07/13/09	TB-07/16/09	TB-07/23/09	TB-08/06/09	TB-08/20/09	TB-09/03/09	TB-09/17/09
TPH, diesel-range	NA	NA	NA	NA	NA	NA	NA
TPH, gasoline-range	< 50	< 50	< 50	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 549 of 1088

TABLE 2-1.7

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	07/23/09	
	ACW PTE	ACW PTE (FD)
TPH, diesel-range	< 50	< 50

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter

There were no analytes detected in associated method blanks.

TABLE 2-1.8

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	07/23/09					
	MBS PTE AF		MBS PTI		MBS PTI (FD)	
TPH, diesel-range	< 50	M	< 50	M	< 50	M
TPH, gasoline-range	< 50		< 50		< 50	

Notes:
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.9

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	07/09/09	07/23/09				08/06/09	08/20/09	09/03/09	09/17/09
	7-PTE	7-PTE	7-PTI		7-PTI (FD)	7-PTE	7-PTE	7-PTE	7-PTE
TPH, diesel-range	NA	< 50	< 50		< 50	NA	NA	NA	NA
TPH, gasoline-range	< 50	< 50	13	F	< 50	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.10

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Analyte (µg/L)	7-PZ-37	7-PZ-37P	7-PZ-37P (FD)	MAFB-111	MAFB-112	MAFB-129
USEPA 6010						
Antimony	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	3.5 F	10.2	2.7
Cobalt	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA
Lead	< 3.0	< 3.0	< 3.0	NA	NA	NA
Manganese	NA	3,490 M	3,270 M	NA	NA	NA
Nickel	NA	NA	NA	< 40	113	< 40
Selenium	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA
USEPA 6020						
Thallium	NA	NA	NA	NA	NA	NA
USEPA 7470						
Mercury	NA	NA	NA	NA	NA	NA

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.10

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Analyte (µg/L)		MAFB-132		MAFB-133		MAFB-133 (FD)		MAFB-136		MAFB-288	
USEPA 6010											
Antimony		2.6	F	2.7	F	2.3	F	2.3	F	NA	
Arsenic		< 5.0		< 5.0		< 5.0		< 5.0		NA	
Barium		54.6		20.4		20.5		70.8		NA	
Beryllium		< 3.0		< 3.0		< 3.0		< 3.0		NA	
Cadmium		< 5.0		< 5.0		< 5.0		< 5.0		NA	
Chromium	F	72.8		3.3	F	3.3	F	5.6	F	2.8	F
Cobalt		2.4	F	< 50		< 50		1.1	F	NA	
Copper		< 10		< 10		< 10		< 10		NA	
Lead		< 3.0		< 3.0		< 3.0		< 3.0		NA	
Manganese		41.9		< 15		< 15		23.6		NA	
Nickel		309		2.5	F	2.5	F	131		< 40	
Selenium		< 5.0		< 5.0		< 5.0		< 5.0		NA	
Silver		< 10		< 10		< 10		0.27	F	NA	
Vanadium		2.5	F	7.4	F	7.5	F	2.2	F	NA	
Zinc		3.2	F	3.7	F	2.8	F	2.4	F	NA	
USEPA 6020											
Thallium		< 1.0		0.012	F	< 1.0		< 1.0		NA	
USEPA 7470											
Mercury		< 0.20		< 0.20		< 0.20		< 0.20		NA	

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.10

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Analyte (μg/L)	MAFB-400		MAFB-400 (FD)		MAFB-413	MAFB-424		MAFB-439
USEPA 6010								
Antimony	NA		NA		NA	2.1	F	NA
Arsenic	NA		NA		NA	< 5.0		NA
Barium	NA		NA		NA	17.7	F	NA
Beryllium	NA		NA		NA	< 3.0		NA
Cadmium	NA		NA		NA	< 5.0		NA
Chromium	1.8	F	1.7	F	NA	2.0	F	NA
Cobalt	NA		NA		NA	< 50		NA
Copper	NA		NA		NA	< 10		NA
Lead	NA		NA		< 3.0	< 3.0		< 3.0
Manganese	NA		NA		NA	< 15	M	NA
Nickel	< 40		< 40		NA	< 40		NA
Selenium	NA		NA		NA	< 5.0		NA
Silver	NA		NA		NA	< 10		NA
Vanadium	NA		NA		NA	11.4	F	NA
Zinc	NA		NA		NA	7.0	F	NA
USEPA 6020								
Thallium	NA		NA		NA	< 1.0		NA
USEPA 7470								
Mercury	NA		NA		NA	< 0.20		NA

Notes:
F - Result below RL.
FD - Field Duplicate
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.11

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	07/23/09					
	ACW PTE		ACW PTI		ACW PTI (FD)	
USEPA 6010						
Calcium	10,000	J	9,670	J	10,100	J
Copper	< 10		< 10		< 10	
Iron	< 70		< 70		< 70	
Magnesium	5,230	J	5,060	J	5,250	J
Manganese	< 15		< 15		< 15	
Sodium	10,000	J	9,660	J	10,100	J
Zinc	< 50		< 50		< 50	

Notes:
FD - Field Duplicate
J - Result is an estimate.

There were no analytes detected in associated method blanks.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	07/23/09					
	MBS PTE AF		MBS PTI		MBS PTI (FD)	
USEPA 6010						
Antimony	< 60		< 60		< 60	
Arsenic	< 5.0		< 5.0		< 5.0	
Barium	61.6		58.8		58.8	
Beryllium	< 3.0		< 3.0		< 3.0	
Cadmium	< 5.0		< 5.0		< 5.0	
Chromium	4.4	F	4.3	F	4.4	F
Cobalt	< 50		< 50		< 50	
Copper	< 10		< 10		< 10	
Lead	< 3.0		< 3.0		< 3.0	
Manganese	< 15		< 15		< 15	
Nickel	< 40		< 40		< 40	
Selenium	< 5.0		< 5.0		< 5.0	
Silver	0.29	F	0.31	F	0.31	F
Vanadium	10.8	F	10.7	F	10.7	F
Zinc	< 50		< 50		11.4	F
USEPA 6020						
Thallium	< 1.0		< 1.0		0.090	F
USEPA 7470						
Mercury	< 0.20		< 0.20		< 0.20	

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reportiing Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.13

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	07/23/09					
	7-PTE		7-PTI		7-PTI (FD)	
USEPA 6010						
Calcium	31,800	J	32,600	J	30,100	J
Copper	< 10		< 10		< 10	
Iron	< 70		< 70		< 70	
Magnesium	15,900	J	16,300	J	15,000	J
Manganese	< 15		< 15		< 15	
Sodium	16,000	J	16,400	J	15,100	J
Zinc	8.1	F	< 50		25.5	F

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.14

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (mg/L)	MAFB-132		MAFB-132 (a)	MAFB-133	MAFB-133 (FD)	MAFB-136		MAFB-424	MAFB-424 (FD)
SM 2320									
Total Alkalinity	175		NA	94.3	90.2	164		45.2	NA
Alkalinity, bicarbonate	175		NA	94.3	90.2	164		45.2	NA
Alkalinity, carbonate	< 1.0		NA	< 1.0	< 1.0	< 1.0		< 1.0	NA
USEPA 160.1									
Total Filterable Residue	307		NA	167	146	302		133	NA
USEPA 300.0									
Chloride	52.9	J	49.1	4.0	4.0	40.8		3.0	NA
Sulfate	4.0		NA	9.2	9.1	11.6		6.1	NA
USEPA 340.2									
Fluoride	0.11		NA	0.22	0.19	0.25		0.40	NA
USEPA 376.1									
Sulfide, total	< 0.20		NA	< 0.20	< 0.20	0.16	F	< 0.20	NA
USEPA 7196									
Hexavalent Chromium	NA		NA	NA	NA	NA		< 0.020	< 0.020

Notes:
F - Result below RL.
FD - Field Duplicate
mg/L - Milligrams per liter
RL - Reporting Limit
NA - Not Applicable

(a) Two fold dilution

There were no analytes detected in associated method blanks.

Mather AR # 2970.1 Page 559 of 1088

TABLE 2-1.15

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	07/23/09			
		ACW PTE	ACW PTE (FD)	ACW PTI	ACW PTI (FD)
SM 2320					
Total Alkalinity	mg/L	39.4	NA	41.4	44.8
Alkalinity, bicarbonate	mg/L	39.4	NA	41.4	44.8
Alkalinity, carbonate	mg/L	< 1.0	NA	< 1.0	< 1.0
Alkalinity, hydroxide	mg/L	< 1.0	NA	< 1.0	< 1.0
USEPA 130.2					
Hardness as CaCO3	mg/L	32.0	NA	28.0	24.0
USEPA 160.1					
Total Filterable Residue	mg/L	129	NA	125	122
USEPA 300.0					
Chloride	mg/L	3.4	NA	3.4	3.4
Nitrate (as N)	mg/L	2.6	NA	2.6	2.6
Sulfate	mg/L	2.1	NA	2.1	2.1
USEPA 314.0					
Perchlorate	µg/L	< 3.0	< 3.0	NA	NA

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Not Applicable

There were no analytes detected in associated method blanks.

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	07/23/09 MBS PTE AF		07/23/09 MBS PTE AF (FD)		07/23/09 MBS PTI	07/23/09 MBS PTI (FD)
SM 2320							
Total Alkalinity	mg/L	99.9		NA		96.8	99.5
Alkalinity, bicarbonate	mg/L	99.9		NA		96.8	99.5
Alkalinity, carbonate	mg/L	< 1.0		NA		< 1.0	< 1.0
Alkalinity, hydroxide	mg/L	< 1.0		NA		< 1.0	< 1.0
USEPA 130.2							
Hardness as CaCO3	mg/L	88.5		NA		80.1	88.1
USEPA 160.1							
Total Filterable Residue	mg/L	200		NA		193	200
USEPA 160.2							
Total Suspended Solids	mg/L	< 10		NA		< 10	< 10
USEPA 300.0							
Chloride	mg/L	6.9		NA		6.9	6.9
Nitrate (as N)	mg/L	3.2		NA		3.2	3.3
Sulfate	mg/L	10.2		NA		10.1	10
USEPA 314.0							
Perchlorate	µg/L	1.0	F	0.99	F	NA	NA

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.17

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (mg/L)	07/23/09		
	7-PTE	7-PTI	7-PTI (FD)
SM 2320			
Total Alkalinity	131	141	139
Alkalinity, bicarbonate	131	141	139
Alkalinity, carbonate	< 1.0	< 1.0	< 1.0
Alkalinity, hydroxide	< 1.0	< 1.0	< 1.0
USEPA 130.2			
Hardness as CaCO3	116	124	116
USEPA 160.1			
Total Filterable Residue	258	249	259
USEPA 300.0			
Chloride	8.8	8.8	8.8
Nitrate (as N)	2.2	2.2	2.2
Sulfate	20.8	20.8	20.9

Notes:
FD - Field Duplicate
mg/L - Milligrams per liter

There were no analytes detected in associated method blanks.

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
7-PTE-07/09/09	101	yes	98	yes	99	yes	98	yes
7-PTE-07/23/09	111	yes	100	yes	105	yes	97	yes
7-PTE-08/06/09	95	yes	92	yes	106	yes	100	yes
7-PTE-08/20/09	107	yes	96	yes	106	yes	101	yes
7-PTE-09/03/09	96	yes	94	yes	101	yes	101	yes
7-PTE-09/17/09	105	yes	106	yes	101	yes	106	yes
7-PTI-07/23/09	112	yes	98	yes	108	yes	99	yes
7-PTI-07/23/09 (FD)	106	yes	96	yes	102	yes	100	yes
7-PTI-07/23/09 (MS)	112	yes	99	yes	105	yes	99	yes
7-PTI-07/23/09 (MSD)	118	yes	105	yes	109	yes	100	yes
7-PZ-37	102	yes	98	yes	101	yes	100	yes
7-PZ-37P	98	yes	98	yes	97	yes	102	yes
7-PZ-37P (FD)	101	yes	97	yes	101	yes	99	yes
7-PZ-37P (MS)	102	yes	101	yes	101	yes	102	yes
7-PZ-37P (MSD)	100	yes	100	yes	97	yes	100	yes
ACW PTE-07/09/09	100	yes	96	yes	98	yes	98	yes
ACW PTE-07/23/09	108	yes	99	yes	102	yes	101	yes
ACW PTE-08/06/09	93	yes	93	yes	94	yes	90	yes
ACW PTE-08/20/09	112	yes	98	yes	107	yes	102	yes
ACW PTE-09/03/09	100	yes	94	yes	105	yes	101	yes
ACW PTE-09/17/09	99	yes	99	yes	100	yes	105	yes
ACW PTI-07/23/09	115	yes	102	yes	110	yes	97	yes
ACW PTI-07/23/09 (FD)	108	yes	103	yes	105	yes	104	yes
ACW PTI-07/23/09 (MS)	108	yes	102	yes	102	yes	104	yes
ACW PTI-07/23/09 (MSD)	112	yes	97	yes	107	yes	99	yes
ACW PZ-05	101	yes	98	yes	100	yes	99	yes
ACW R2	114	yes	107	yes	104	yes	111	yes
MAFB-132	98	yes	97	yes	99	yes	101	yes
MAFB-133	104	yes	102	yes	102	yes	105	yes
MAFB-133 (FD)	99	yes	97	yes	95	yes	102	yes
MAFB-133 (MS)	103	yes	103	yes	102	yes	104	yes
MAFB-133 (MSD)	106	yes	105	yes	101	yes	102	yes
MAFB-136	103	yes	103	yes	100	yes	103	yes

Mather AR # 2970.1 Page 563 of 1088

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-149	97	yes	100	yes	100	yes	101	yes
MAFB-284	101	yes	103	yes	100	yes	102	yes
MAFB-293	110	yes	103	yes	106	yes	107	yes
MAFB-318	107	yes	106	yes	106	yes	109	yes
MAFB-354B	102	yes	102	yes	101	yes	104	yes
MAFB-354D	101	yes	100	yes	103	yes	101	yes
MAFB-378B	101	yes	97	yes	100	yes	99	yes
MAFB-378B (FD)	111	yes	98	yes	107	yes	100	yes
MAFB-378D	100	yes	99	yes	100	yes	101	yes
MAFB-378D (MS)	105	yes	102	yes	101	yes	99	yes
MAFB-378D (MSD)	104	yes	102	yes	101	yes	102	yes
MAFB-388Ds	104	yes	98	yes	102	yes	100	yes
MAFB-397	105	yes	105	yes	105	yes	105	yes
MAFB-413	104	yes	100	yes	100	yes	99	yes
MAFB-424	105	yes	97	yes	101	yes	99	yes
MAFB-426	113	yes	105	yes	111	yes	112	yes
MAFB-435	98	yes	98	yes	98	yes	101	yes
MAFB-438	104	yes	99	yes	103	yes	99	yes
MAFB-439	108	yes	102	yes	103	yes	101	yes
MAFB-439 (FD)	104	yes	96	yes	98	yes	95	yes
MAFB-439 (MS)	102	yes	103	yes	101	yes	103	yes
MAFB-439 (MSD)	104	yes	102	yes	102	yes	98	yes
MAFB-441	105	yes	99	yes	101	yes	103	yes
MAFB-442	105	yes	97	yes	102	yes	99	yes
MAFB-443	106	yes	98	yes	101	yes	98	yes
MAFB-444	101	yes	94	yes	103	yes	100	yes
MAFB-445	98	yes	100	yes	96	yes	104	yes
MAFB-446	101	yes	100	yes	100	yes	105	yes
MAFB-446 (FD)	103	yes	98	yes	101	yes	99	yes
MAFB-447	104	yes	100	yes	100	yes	102	yes
MAFB-448	104	yes	99	yes	107	yes	102	yes
MAFB-449Bd	100	yes	96	yes	100	yes	100	yes
MAFB-449Bs	105	yes	99	yes	98	yes	99	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-450	97	yes	92	yes	97	yes	94	yes
MAFB-451	106	yes	103	yes	101	yes	104	yes
MAFB-452B	110	yes	102	yes	103	yes	104	yes
MAFB-452Bu	109	yes	100	yes	105	yes	102	yes
MAFB-453	102	yes	98	yes	96	yes	97	yes
MAFB-453C	106	yes	100	yes	104	yes	101	yes
MAFB-454	104	yes	101	yes	103	yes	101	yes
MAFB-454C	112	yes	104	yes	109	yes	104	yes
MAFB-455	110	yes	97	yes	104	yes	96	yes
MAFB-456	105	yes	100	yes	103	yes	101	yes
MAFB-456C	107	yes	97	yes	103	yes	97	yes
MAFB-457Bd	102	yes	97	yes	100	yes	100	yes
MAFB-457Bs	105	yes	101	yes	101	yes	103	yes
MAFB-457Bs (FD)	107	yes	103	yes	105	yes	105	yes
MAFB-458Bd	107	yes	100	yes	103	yes	103	yes
MAFB-458Bs	102	yes	97	yes	103	yes	98	yes
MAFB-459D	96	yes	97	yes	97	yes	98	yes
MAFB-459Dd	113	yes	105	yes	108	yes	103	yes
MBS EW-13BuB	107	yes	102	yes	101	yes	107	yes
MBS PTE AF-07/09/09	100	yes	95	yes	98	yes	101	yes
MBS PTE AF-07/23/09	115	yes	103	yes	110	yes	103	yes
MBS PTE AF-08/06/09	99	yes	103	yes	98	yes	103	yes
MBS PTE AF-08/20/09	111	yes	101	yes	103	yes	102	yes
MBS PTE AF-09/03/09	95	yes	96	yes	102	yes	104	yes
MBS PTE AF-09/17/09	97	yes	108	yes	96	yes	102	yes
MBS PTI-07/23/09	115	yes	97	yes	107	yes	95	yes
MBS PTI-07/23/09 (FD)	109	yes	107	yes	104	yes	111	yes
MBS PTI-07/23/09 (MS)	115	yes	103	yes	110	yes	103	yes
MBS PTI-07/23/09 (MSD)	107	yes	96	yes	106	yes	98	yes
OFB-72	110	yes	100	yes	107	yes	102	yes
OFB-80	108	yes	101	yes	108	yes	103	yes
TB-07/09/09	104	yes	98	yes	103	yes	101	yes
TB-07/13/09	103	yes	99	yes	103	yes	101	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
TB-07/14/09	106	yes	99	yes	106	yes	100	yes
TB-07/15/09	100	yes	98	yes	101	yes	100	yes
TB-07/16/09	107	yes	100	yes	104	yes	103	yes
TB-07/20/09	106	yes	103	yes	107	yes	106	yes
TB-07/23/09	111	yes	99	yes	107	yes	101	yes
TB-08/06/09	102	yes	102	yes	100	yes	102	yes
TB-08/17/09	112	yes	102	yes	110	yes	104	yes
TB-08/20/09	107	yes	101	yes	100	yes	106	yes
TB-09/03/09	99	yes	94	yes	104	yes	103	yes
TB-09/17/09	107	yes	108	yes	101	yes	106	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 1,2-Dichloroethane-d4 (control limits: 72-119%)
(b) 4-Bromofluorobenzene (control limits: 76-119%)
(c) Dibromofluoromethane (control limits: 85-115%)
(d) Toluene-d8 (control limits: 81-120%)

TABLE 2-2.2

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
MAFB-271	99	yes	93	yes
MAFB-319	98	yes	95	yes
MAFB-319 (FD)	101	yes	100	yes
MAFB-321	100	yes	95	yes
MAFB-322	96	yes	108	yes
MAFB-324	99	yes	100	yes
MAFB-324 (FD)	102	yes	99	yes
MAFB-324 (MS)	111	yes	114	yes
MAFB-324 (MSD)	99	yes	106	yes
MAFB-326	98	yes	93	yes
MAFB-328	99	yes	94	yes
MAFB-337	100	yes	94	yes
MAFB-338	101	yes	106	yes
OFB-04-07/28/09	116	yes	113	yes
OFB-04-08/25/09	93	yes	100	yes
OFB-04-09/29/09	106	yes	103	yes
OFB-04M-07/28/09	115	yes	113	yes
OFB-04M-08/25/09	90	yes	95	yes
OFB-04M-09/29/09	103	yes	98	yes
OFB-27	113	yes	110	yes
OFB-27 (FD)	113	yes	106	yes
OFB-27 (MS)	120	yes	119	yes
OFB-27 (MSD)	118	yes	116	yes
OFB-31	115	yes	115	yes
OFB-32	112	yes	108	yes
OFB-49	86	yes	93	yes
OFB-51	110	yes	113	yes
OFB-51/52E-08/06/09	98	yes	102	yes
OFB-51/52E-08/11/09	97	yes	96	yes
OFB-51/52E-08/25/09	92	yes	90	yes
OFB-51/52E-09/29/09	102	yes	99	yes
OFB-51/52I-07/28/09	115	yes	114	yes
OFB-51/52I-08/25/09	88	yes	86	yes
OFB-51/52I-09/29/09	101	yes	105	yes
OFB-51/52M-07/28/09	117	yes	114	yes
OFB-51/52M-08/06/09	91	yes	93	yes
OFB-51/52M-08/11/09	92	yes	93	yes
OFB-51/52M-08/25/09	91	yes	97	yes
OFB-51/52M-09/29/09	94	yes	97	yes
OFB-52	112	yes	105	yes
OFB-52 (FD)	110	yes	113	yes
OFB-54	83	yes	88	yes
OFB-56	81	yes	88	yes
TB-07/15/09	95	yes	97	yes
TB-07/28/09	86	yes	90	yes

TABLE 2-2.2

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
TB-08/06/09	90	yes	95	yes
TB-08/11/09	95	yes	97	yes
TB-08/25/09	92	yes	90	yes
TB-09/29/09	95	yes	101	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 1,2-Dichloroethane-d4 (control limits: 50-150%)
(b) 4-Bromofluorobenzene (control limits: 50-150%)

TABLE 2-2.3

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability
7-PTE-07/09/09	113	yes
7-PTE-07/23/09	105	yes
7-PTE-08/06/09	87	yes
7-PTE-08/20/09	93	yes
7-PTE-09/03/09	95	yes
7-PTE-09/17/09	94	yes
7-PTI-07/23/09	103	yes
7-PTI-07/23/09 (FD)	102	yes
7-PTI-07/23/09 (MS)	141	no
7-PTI-07/23/09 (MSD)	108	yes
7-PZ-37	104	yes
7-PZ-37P	107	yes
7-PZ-37P (FD)	108	yes
7-PZ-37P (MS)	108	yes
7-PZ-37P (MSD)	114	yes
MAFB-149	98	yes
MAFB-284	98	yes
MAFB-413	103	yes
MAFB-439	109	yes
MBS PTE AF-07/23/09	101	yes
MBS PTI-07/23/09	105	yes
MBS PTI-07/23/09 (FD)	101	yes
MBS PTI-07/23/09 (MS)	119	yes
MBS PTI-07/23/09 (MSD)	123	yes
TB-07/09/09	94	yes
TB-07/13/09	107	yes
TB-07/16/09	105	yes
TB-07/23/09	124	yes
TB-08/06/09	87	yes
TB-08/20/09	92	yes
TB-09/03/09	92	yes
TB-09/17/09	91	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 4-Bromofluorobenzene (control limits: 75-125%)

Shaded data indicate nonconformances with project control limits.

TABLE 2-2.4

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
7-PTE-07/23/09	89	yes	84	yes
7-PTI-07/23/09	69	yes	61	yes
7-PTI-07/23/09 (FD)	97	yes	90	yes
7-PTI-07/23/09 (MS)	99	yes	96	yes
7-PTI-07/23/09 (MSD)	83	yes	78	yes
7-PZ-37	110	yes	111	yes
7-PZ-37P	68	yes	71	yes
7-PZ-37P (FD)	99	yes	79	yes
7-PZ-37P (MS)	79	yes	74	yes
7-PZ-37P (MSD)	85	yes	85	yes
ACW PTE-07/23/09	94	yes	72	yes
ACW PTE-07/23/09 (FD)	133	yes	109	yes
ACW PTE-07/23/09 (MS)	104	yes	85	yes
ACW PTE-07/23/09 (MSD)	127	yes	108	yes
MAFB-149	105	yes	102	yes
MAFB-284	106	yes	102	yes
MAFB-413	68	yes	66	yes
MAFB-439	122	yes	128	yes
MBS PTE AF-07/23/09	150	yes	138	no
MBS PTI-07/23/09	83	yes	80	yes
MBS PTI-07/23/09 (FD)	91	yes	71	yes
MBS PTI-07/23/09 (MS)	149	yes	151	no
MBS PTI-07/23/09 (MSD)	127	yes	101	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

(a) n-Octacosane (control limits: 26-152%)
(b) o-Terphenyl (control limits: 57-132%)

Shaded data indicate nonconformances with project control limits.

3.0 CROSS-REFERENCE TABLE

The table presented in this section (Table 3-1) corresponds to Table A-5 of the Handbook (Appendix A, Tab 6). Table 3-1 provides a cross-reference between laboratory sample and field sample identifications.

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 4)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
7-PTE	7-PTE	AX99416	07/09/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AX99417	07/09/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AX99418	07/09/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AX99419	07/09/09	001A	Pump and Treat Effluent
TB-07/09/09	7-PTT	AX99420	07/09/09	001A	Trip Blank
MAFB-449Bd	MAFB-449(Bd)DF	AX99541	07/13/09	001A	Groundwater
MAFB-449Bs	MAFB-449(Bs)DF	AX99542	07/13/09	001A	Groundwater
MAFB-457Bd	MAFB-457(Bd)DF	AX99543	07/13/09	001A	Groundwater
MAFB-457Bs	MAFB-457(Bs)DF	AX99544	07/13/09	001A	Groundwater
MAFB-458Bd	MAFB-458(Bd)DF	AX99545	07/13/09	001A	Groundwater
MAFB-458Bs	MAFB-458(Bs)DF	AX99546	07/13/09	001A	Groundwater
MAFB-457Bs (FD)	MAFB-900	AX99547	07/13/09	001A	Field Duplicate
TB-07/13/09	MBS-MW-1	AX99548	07/13/09	001A	Trip Blank
MAFB-444	MAFB-444DF	AX99554	07/13/09	001A	Groundwater
MAFB-445	MAFB-445DF	AX99555	07/13/09	001A	Groundwater
MAFB-446	MAFB-446DF	AX99556	07/13/09	001A	Groundwater
MAFB-447	MAFB-447DF	AX99557	07/13/09	001A	Groundwater
MAFB-448	MAFB-448DF	AX99558	07/13/09	001A	Groundwater
MAFB-446 (FD)	MAFB-908	AX99559	07/13/09	001A	Field Duplicate
7-PZ-37	7-PZ-37	AX99560	07/13/09	001A	Groundwater
7-PZ-37P	7-PZ-37(P)	AX99561	07/13/09	001A	Groundwater
7-PZ-37P (MS)	7-PZ-37(P)	AX99561	07/13/09	001A	Matrix Spike
7-PZ-37P (MSD)	7-PZ-37(P)	AX99561	07/13/09	001A	Matrix Spike Duplicate
MAFB-149	MAFB-149	AX99562	07/13/09	001A	Groundwater
MAFB-284	MAFB-284	AX99563	07/13/09	001A	Groundwater
MAFB-413	MAFB-413	AX99564	07/13/09	001A	Groundwater
MAFB-424	MAFB-424	AX99565	07/13/09	001A	Groundwater
MAFB-424 (MS)	MAFB-424	AX99565	07/13/09	001A	Matrix Spike
MAFB-424 (MSD)	MAFB-424	AX99565	07/13/09	001A	Matrix Spike Duplicate
7-PZ-37P (FD)	MAFB-954	AX99566	07/13/09	001A	Field Duplicate
MAFB-424 (FD)	MAFB-982	AX99567	07/13/09	001A	Field Duplicate
MAFB-453C	MAFB-453(C)DF	AX99678	07/14/09	001A	Groundwater
MAFB-453	MAFB-453DF	AX99679	07/14/09	001A	Groundwater
MAFB-454C	MAFB-454(C)DF	AX99680	07/14/09	001A	Groundwater
MAFB-454	MAFB-454DF	AX99681	07/14/09	001A	Groundwater
MAFB-111	MAFB-111	AX99682	07/14/09	001A	Groundwater
MAFB-129	MAFB-129	AX99683	07/14/09	001A	Groundwater
MAFB-288	MAFB-288	AX99684	07/14/09	001A	Groundwater
MAFB-400	MAFB-400	AX99685	07/14/09	001A	Groundwater
MAFB-400 (FD)	MAFB-935	AX99686	07/14/09	001A	Field Duplicate
MAFB-354B	MAFB-354(B)	AX99687	07/14/09	001A	Groundwater
MAFB-354D	MAFB-354(D)	AX99688	07/14/09	001A	Groundwater
MAFB-388Ds	MAFB-388(Ds)DF	AX99689	07/14/09	001A	Groundwater
MAFB-438	MAFB-438DF	AX99690	07/14/09	001A	Groundwater
MAFB-442	MAFB-442DF	AX99691	07/14/09	001A	Groundwater
MAFB-443	MAFB-443DF	AX99692	07/14/09	001A	Groundwater
TB-07/14/09	MBS-MW-13	AX99693	07/14/09	001A	Trip Blank
MAFB-112	MAFB-112	AX99746	07/15/09	001A	Groundwater
MAFB-132	MAFB-132L	AX99747	07/15/09	001A	Groundwater
MAFB-378B	MAFB-378(B)DF	AX99748	07/15/09	001A	Groundwater
MAFB-378D	MAFB-378(D)DF	AX99749	07/15/09	001A	Groundwater
MAFB-378D (MS)	MAFB-378(D)DF	AX99749	07/15/09	001A	Matrix Spike

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-378D (MSD)	MAFB-378(D)DF	AX99749	07/15/09	001A	Matrix Spike Duplicate
MAFB-397	MAFB-397DF	AX99750	07/15/09	001A	Groundwater
MAFB-378B (FD)	MAFB-934	AX99751	07/15/09	001A	Field Duplicate
TB-07/15/09	MBS-MW-10	AX99752	07/15/09	001A	Trip Blank
MAFB-271	MAFB-271	AX99753	07/15/09	001A	Groundwater
MAFB-319	MAFB-319DF	AX99754	07/15/09	001A	Groundwater
MAFB-321	MAFB-321DF	AX99755	07/15/09	001A	Groundwater
MAFB-322	MAFB-322	AX99756	07/15/09	001A	Groundwater
MAFB-324	MAFB-324	AX99757	07/15/09	001A	Groundwater
MAFB-324 (MS)	MAFB-324	AX99757	07/15/09	001A	Matrix Spike
MAFB-324 (MSD)	MAFB-324	AX99757	07/15/09	001A	Matrix Spike Duplicate
MAFB-326	MAFB-326	AX99758	07/15/09	001A	Groundwater
MAFB-328	MAFB-328DF	AX99759	07/15/09	001A	Groundwater
MAFB-337	MAFB-337	AX99760	07/15/09	001A	Groundwater
MAFB-338	MAFB-338DF	AX99761	07/15/09	001A	Groundwater
MAFB-319 (FD)	MAFB-911	AX99762	07/15/09	001A	Field Duplicate
MAFB-324 (FD)	MAFB-918	AX99763	07/15/09	001A	Field Duplicate
TB-07/15/09	OFB-MW-1	AX99764	07/15/09	001A	Trip Blank
TB-07/16/09	LF-MW-1	AX99879	07/16/09	001A	Trip Blank
MAFB-133	MAFB-133L	AX99880	07/16/09	001A	Groundwater
MAFB-133 (MS)	MAFB-133L	AX99880	07/16/09	001A	Matrix Spike
MAFB-133 (MSD)	MAFB-133L	AX99880	07/16/09	001A	Matrix Spike Duplicate
MAFB-136	MAFB-136L	AX99881	07/16/09	001A	Groundwater
MAFB-133 (FD)	MAFB-948	AX99882	07/16/09	001A	Field Duplicate
MAFB-439	MAFB-439	AX99883	07/16/09	001A	Groundwater
MAFB-439 (MS)	MAFB-439	AX99883	07/16/09	001A	Matrix Spike
MAFB-439 (MSD)	MAFB-439	AX99883	07/16/09	001A	Matrix Spike Duplicate
MAFB-439 (FD)	MAFB-964	AX99884	07/16/09	001A	Field Duplicate
ACW PZ-05	ACW PZ-05DF	AX99885	07/16/09	001A	Groundwater
MAFB-455	MAFB-455DF	AX99886	07/16/09	001A	Groundwater
MAFB-456C	MAFB-456(C)DF	AX99887	07/16/09	001A	Groundwater
MAFB-456	MAFB-456DF	AX99888	07/16/09	001A	Groundwater
MAFB-293	MAFB-293	AY00066	07/20/09	001A	Groundwater
MAFB-318	MAFB-318	AY00067	07/20/09	001A	Groundwater
MAFB-426	MAFB-426DF	AY00068	07/20/09	001A	Groundwater
MAFB-435	MAFB-435DF	AY00069	07/20/09	001A	Groundwater
MAFB-450	MAFB-450DF	AY00070	07/20/09	001A	Groundwater
MAFB-459D	MAFB-459(D)DF	AY00071	07/20/09	001A	Groundwater
MAFB-459Dd	MAFB-459(Dd)DF	AY00072	07/20/09	001A	Groundwater
TB-07/20/09	MBS-MW-3	AY00073	07/20/09	001A	Trip Blank
7-PTE	7-PTE	AY00445	07/23/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AY00446	07/23/09	001A	Pump and Treat Effluent
7-PTI (FD)	7-AS	AY00448	07/23/09	001A	Field Duplicate
7-PTE	7-PTE	AY00449	07/23/09	001A	Pump and Treat Effluent
7-PTI	7-PTI	AY00450	07/23/09	001A	Pump and Treat Influent
7-PTI (MS)	7-PTI	AY00450	07/23/09	001A	Matrix Spike
7-PTI (MSD)	7-PTI	AY00450	07/23/09	001A	Matrix Spike Duplicate
TB-07/23/09	7-PTT	AY00451	07/23/09	001A	Trip Blank
ACW PTI (FD)	ACW AS	AY00452	07/23/09	001A	Field Duplicate
ACW PTE (FD)	ACW PTD	AY00453	07/23/09	001A	Field Duplicate
ACW PTE	ACW PTE	AY00454	07/23/09	001A	Pump and Treat Effluent
ACW PTE (MS)	ACW PTE	AY00454	07/23/09	001A	Matrix Spike

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 4)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
ACW PTE (MSD)	ACW PTE	AY00454	07/23/09	001A	Matrix Spike Duplicate
ACW PTI	ACW PTI	AY00455	07/23/09	001A	Pump and Treat Influent
ACW PTI (MS)	ACW PTI	AY00455	07/23/09	001A	Matrix Spike
ACW PTI (MSD)	ACW PTI	AY00455	07/23/09	001A	Matrix Spike Duplicate
ACW R2	ACW R2	AY00456	07/23/09	001A	Groundwater
MAFB-441	MAFB-441DF	AY00457	07/23/09	001A	Groundwater
MAFB-451	MAFB-451DF	AY00458	07/23/09	001A	Groundwater
MAFB-452B	MAFB-452(B)DF	AY00459	07/23/09	001A	Groundwater
MAFB-452Bu	MAFB-452(Bu)DF	AY00460	07/23/09	001A	Groundwater
MBS PTI (FD)	MBS AS	AY00461	07/23/09	001A	Field Duplicate
MBS EW-13BuB	MBS EW-13Bu/B	AY00462	07/23/09	001A	Groundwater
MBS PTE AF (FD)	MBS PTA	AY00463	07/23/09	001A	Field Duplicate
MBS PTE AF	MBS PTE AF	AY00464	07/23/09	001A	Pump and Treat Effluent
MBS PTE AF (MS)	MBS PTE AF	AY00464	07/23/09	001A	Matrix Spike
MBS PTE AF (MSD)	MBS PTE AF	AY00464	07/23/09	001A	Matrix Spike Duplicate
MBS PTI	MBS PTI	AY00465	07/23/09	001A	Pump and Treat Influent
MBS PTI (MS)	MBS PTI	AY00465	07/23/09	001A	Matrix Spike
MBS PTI (MSD)	MBS PTI	AY00465	07/23/09	001A	Matrix Spike Duplicate
MBS PTI (DUP)	MBS PTI	AY00465	07/23/09	001A	Laboratory Duplicate
OFB-51/52M	JH MID-GAC	AY00665	07/28/09	001A	Mid-GAC
OFB-04M	MOONBEAM MID-GAC	AY00666	07/28/09	001A	Mid-GAC
OFB-31	GOULD	AY00667	07/28/09	001A	Groundwater
OFB-51/52I	JH INFLUENT	AY00668	07/28/09	001A	GAC Influent
OFB-51	JH1	AY00669	07/28/09	001A	Groundwater
OFB-52	JH2	AY00670	07/28/09	001A	Groundwater
OFB-27 (FD)	MAFB-926	AY00671	07/28/09	001A	Field Duplicate
OFB-52 (FD)	MAFB-927	AY00672	07/28/09	001A	Field Duplicate
OFB-27	MARS	AY00673	07/28/09	001A	Groundwater
OFB-27 (MS)	MARS	AY00673	07/28/09	001A	Matrix Spike
OFB-27 (MSD)	MARS	AY00673	07/28/09	001A	Matrix Spike Duplicate
OFB-04	MOONBEAM INFLUENT	AY00674	07/28/09	001A	GAC Influent
OFB-32	NUT PLAINS	AY00675	07/28/09	001A	Groundwater
OFB-49	OAKEN BUCKET	AY00676	07/28/09	001A	Groundwater
TB-07/28/09	OFB-MW-2	AY00677	07/28/09	001A	Trip Blank
OFB-54	SOUTH PORT	AY00678	07/28/09	001A	Groundwater
OFB-56	TALLYHO #2	AY00679	07/28/09	001A	Groundwater
ACW PTE	ACW PTE	AY01088	08/06/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AY01089	08/06/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY01090	08/06/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY01091	08/06/09	001A	Pump and Treat Effluent
TB-08/06/09	7-PTT	AY01092	08/06/09	001A	Trip Blank
OFB-51/52E	JH EFFLUENT	AY01094	08/06/09	001A	GAC Effluent
OFB-51/52M	JH MID-GAC	AY01095	08/06/09	001A	Mid-GAC
TB-08/06/09	OFB-MW-1	AY01096	08/06/09	001A	Trip Blank
OFB-51/52E	JH EFFLUENT	AY01278	08/11/09	001A	GAC Effluent
OFB-51/52M	JH MID-GAC	AY01279	08/11/09	001A	Mid-GAC
TB-08/11/09	OFB-MW-1	AY01280	08/11/09	001A	Trip Blank
OFB-72	OFB-72	AY01669	08/17/09	001A	Groundwater
OFB-80	OFB-80	AY01670	08/17/09	001A	Groundwater
TB-08/17/09	OFB-MW-7	AY01671	08/17/09	001A	Trip Blank
ACW PTE	ACW PTE	AY01834	08/20/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AY01835	08/20/09	001A	Pump and Treat Effluent

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
7-PTE	7-PTE	AY01836	08/20/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY01837	08/20/09	001A	Pump and Treat Effluent
TB-08/20/09	7-PTT	AY01838	08/20/09	001A	Trip Blank
OFB-51/52E	JH EFFLUENT	AY02061	08/25/09	001A	GAC Effluent
OFB-51/52M	JH MID-GAC	AY02062	08/25/09	001A	Mid-GAC
OFB-04M	MOONBEAM MID-GAC	AY02063	08/25/09	001A	Mid-GAC
OFB-51/52I	JH INFLUENT	AY02064	08/25/09	001A	GAC Influent
OFB-04	MOONBEAM INFLUENT	AY02065	08/25/09	001A	GAC Influent
TB-08/25/09	OFB-MW-1	AY02066	08/25/09	001A	Trip Blank
MBS PTE AF	MBS PTE AF	AY02674	09/03/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AY02675	09/03/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY02676	09/03/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY02677	09/03/09	001A	Pump and Treat Effluent
TB-09/03/09	7-PTT	AY02678	09/03/09	001A	Trip Blank
ACW PTE	ACW PTE	AY03566	09/17/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY03567	09/17/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY03568	09/17/09	001A	Pump and Treat Effluent
TB-09/17/09	7-PTT	AY03569	09/17/09	001A	Trip Blank
MBS PTE AF	MBS PTE AF	AY03585	09/17/09	001A	Pump and Treat Effluent
OFB-51/52E	JH EFFLUENT	AY04460	09/29/09	001A	GAC Effluent
OFB-51/52M	JH MID-GAC	AY04461	09/29/09	001A	Mid-GAC
OFB-04M	MOONBEAM MID-GAC	AY04462	09/29/09	001A	Mid-GAC
OFB-51/52I	JH INFLUENT	AY04463	09/29/09	001A	GAC Influent
OFB-04	MOONBEAM INFLUENT	AY04464	09/29/09	001A	GAC Influent
TB-09/29/09	OFB-MW-1	AY04465	09/29/09	001A	Trip Blank

Notes:

DUP - Laboratory Duplicate
FD - Field Duplicate
GAC - Granulated Activated Carbon
Mid-GAC - Between GAC Canisters
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) Field Batch Identification corresponds to the ERPIMS Field LOTCTLNUM.

Trip blanks in the ERPIMS Identification column have been named as follows: TB - (date of collection).

4.0 HOLDING TIMES

The tables presented in this section correspond to Table A-6 of the Handbook (Appendix A, Tab 6). This Summary of Extraction and Analysis Dates is divided into 10 tables grouped by method (Tables 4-1.1 through 4-1.10).

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
7-PTE	07/23/09	07/24/09	07/24/09
7-PTE	08/06/09	08/07/09	08/07/09
7-PTE	08/20/09	08/21/09	08/21/09
7-PTE	07/09/09	07/14/09	07/14/09
7-PTE	09/17/09	09/18/09	09/18/09
7-PTE	09/03/09	09/04/09	09/04/09
7-PTI	07/23/09	07/27/09	07/27/09
7-PTI (FD)	07/23/09	07/24/09	07/24/09
7-PTI (MS)	07/23/09	07/27/09	07/27/09
7-PTI (MSD)	07/23/09	07/27/09	07/27/09
7-PZ-37	07/13/09	07/16/09	07/16/09
7-PZ-37P	07/13/09	07/16/09	07/16/09
7-PZ-37P (FD)	07/13/09	07/17/09	07/17/09
7-PZ-37P (MS)	07/13/09	07/16/09	07/16/09
7-PZ-37P (MSD)	07/13/09	07/17/09	07/17/09
ACW PTE	07/23/09	07/24/09	07/24/09
ACW PTE	08/06/09	08/07/09	08/07/09
ACW PTE	07/09/09	07/14/09	07/14/09
ACW PTE	08/20/09	08/21/09	08/21/09
ACW PTE	09/17/09	09/18/09	09/18/09
ACW PTE	09/03/09	09/04/09	09/04/09
ACW PTI	07/23/09	07/27/09	07/27/09
ACW PTI (FD)	07/23/09	07/24/09	07/24/09
ACW PTI (MS)	07/23/09	07/27/09	07/27/09
ACW PTI (MSD)	07/23/09	07/27/09	07/27/09
ACW PZ-05	07/16/09	07/20/09	07/20/09
ACW R2	07/23/09	07/24/09	07/24/09
MAFB-132	07/15/09	07/17/09	07/17/09
MAFB-133	07/16/09	07/18/09	07/18/09
MAFB-133 (FD)	07/16/09	07/18/09	07/18/09
MAFB-133 (MS)	07/16/09	07/20/09	07/20/09
MAFB-133 (MSD)	07/16/09	07/20/09	07/20/09
MAFB-136	07/16/09	07/18/09	07/18/09
MAFB-149	07/13/09	07/16/09	07/16/09
MAFB-284	07/13/09	07/16/09	07/16/09
MAFB-293	07/20/09	07/28/09	07/28/09
MAFB-318	07/20/09	07/29/09	07/29/09
MAFB-354B	07/14/09	07/17/09	07/17/09
MAFB-354D	07/14/09	07/17/09	07/17/09
MAFB-378B	07/15/09	07/17/09	07/17/09
MAFB-378B (FD)	07/15/09	07/17/09	07/17/09
MAFB-378D	07/15/09	07/17/09	07/17/09
MAFB-378D (MS)	07/15/09	07/18/09	07/18/09
MAFB-378D (MSD)	07/15/09	07/18/09	07/18/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-388Ds	07/14/09	07/17/09	07/17/09
MAFB-397	07/15/09	07/17/09	07/17/09
MAFB-413	07/13/09	07/17/09	07/17/09
MAFB-424	07/13/09	07/17/09	07/17/09
MAFB-426	07/20/09	07/29/09	07/29/09
MAFB-435	07/20/09	07/24/09	07/24/09
MAFB-438	07/14/09	07/17/09	07/17/09
MAFB-439	07/16/09	07/18/09	07/18/09
MAFB-439 (FD)	07/16/09	07/18/09	07/18/09
MAFB-439 (MS)	07/16/09	07/20/09	07/20/09
MAFB-439 (MSD)	07/16/09	07/20/09	07/20/09
MAFB-441	07/23/09	07/24/09	07/24/09
MAFB-442	07/14/09	07/17/09	07/17/09
MAFB-443	07/14/09	07/17/09	07/17/09
MAFB-444	07/13/09	07/16/09	07/16/09
MAFB-445	07/13/09	07/16/09	07/16/09
MAFB-446	07/13/09	07/16/09	07/16/09
MAFB-446 (FD)	07/13/09	07/16/09	07/16/09
MAFB-447	07/13/09	07/16/09	07/16/09
MAFB-448	07/13/09	07/16/09	07/16/09
MAFB-449Bd	07/13/09	07/16/09	07/16/09
MAFB-449Bs	07/13/09	07/16/09	07/16/09
MAFB-450	07/20/09	07/24/09	07/24/09
MAFB-451	07/23/09	07/24/09	07/24/09
MAFB-452B	07/23/09	07/24/09	07/24/09
MAFB-452Bu	07/23/09	07/24/09	07/24/09
MAFB-453	07/14/09	07/17/09	07/17/09
MAFB-453C	07/14/09	07/17/09	07/17/09
MAFB-454	07/14/09	07/17/09	07/17/09
MAFB-454C	07/14/09	07/17/09	07/17/09
MAFB-455	07/16/09	07/20/09	07/20/09
MAFB-456	07/16/09	07/20/09	07/20/09
MAFB-456C	07/16/09	07/20/09	07/20/09
MAFB-457Bd	07/13/09	07/16/09	07/16/09
MAFB-457Bs	07/13/09	07/16/09	07/16/09
MAFB-457Bs (FD)	07/13/09	07/16/09	07/16/09
MAFB-458Bd	07/13/09	07/16/09	07/16/09
MAFB-458Bs	07/13/09	07/16/09	07/16/09
MAFB-459D	07/20/09	07/24/09	07/24/09
MAFB-459Dd	07/20/09	07/27/09	07/27/09
MBS EW-13BuB	07/23/09	07/24/09	07/24/09
MBS PTE AF	08/06/09	08/12/09	08/12/09
MBS PTE AF	08/20/09	08/21/09	08/21/09
MBS PTE AF	07/09/09	07/16/09	07/16/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MBS PTE AF	09/17/09	09/18/09	09/18/09
MBS PTE AF	07/23/09	07/27/09	07/27/09
MBS PTE AF	09/03/09	09/04/09	09/04/09
MBS PTI	07/23/09	07/27/09	07/27/09
MBS PTI (FD)	07/23/09	07/24/09	07/24/09
MBS PTI (MS)	07/23/09	07/27/09	07/27/09
MBS PTI (MSD)	07/23/09	07/27/09	07/27/09
OFB-72	08/17/09	08/18/09	08/18/09
OFB-80	08/17/09	08/18/09	08/18/09
TB-07/09/09	07/09/09	07/16/09	07/16/09
TB-07/13/09	07/13/09	07/16/09	07/16/09
TB-07/14/09	07/14/09	07/17/09	07/17/09
TB-07/15/09	07/15/09	07/17/09	07/17/09
TB-07/16/09	07/16/09	07/17/09	07/17/09
TB-07/20/09	07/20/09	07/27/09	07/27/09
TB-07/23/09	07/23/09	07/24/09	07/24/09
TB-08/06/09	08/06/09	08/11/09	08/11/09
TB-08/17/09	08/17/09	08/18/09	08/18/09
TB-08/20/09	08/20/09	08/21/09	08/21/09
TB-09/03/09	09/03/09	09/04/09	09/04/09
TB-09/17/09	09/17/09	09/18/09	09/18/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.2

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Date Sampled	USEPA 524.2 Date Prepared	USEPA 524.2 Date Analyzed
MAFB-271	07/15/09	07/21/09	07/21/09
MAFB-319	07/15/09	07/21/09	07/21/09
MAFB-319 (FD)	07/15/09	07/22/09	07/22/09
MAFB-321	07/15/09	07/21/09	07/21/09
MAFB-322	07/15/09	07/21/09	07/21/09
MAFB-324	07/15/09	07/21/09	07/21/09
MAFB-324 (FD)	07/15/09	07/22/09	07/22/09
MAFB-324 (MS)	07/15/09	07/21/09	07/21/09
MAFB-324 (MSD)	07/15/09	07/21/09	07/21/09
MAFB-326	07/15/09	07/21/09	07/21/09
MAFB-328	07/15/09	07/21/09	07/21/09
MAFB-337	07/15/09	07/21/09	07/21/09
MAFB-338	07/15/09	07/21/09	07/21/09
OFB-04	09/29/09	10/01/09	10/01/09
OFB-04	08/25/09	08/27/09	08/27/09
OFB-04	07/28/09	07/30/09	07/30/09
OFB-04M	09/29/09	10/01/09	10/01/09
OFB-04M	08/25/09	08/27/09	08/27/09
OFB-04M	07/28/09	07/30/09	07/30/09
OFB-27	07/28/09	07/30/09	07/30/09
OFB-27 (FD)	07/28/09	07/30/09	07/30/09
OFB-27 (MS)	07/28/09	07/30/09	07/30/09
OFB-27 (MSD)	07/28/09	07/30/09	07/30/09
OFB-31	07/28/09	07/30/09	07/30/09
OFB-32	07/28/09	07/30/09	07/30/09
OFB-49	07/28/09	07/30/09	07/30/09
OFB-51	07/28/09	07/30/09	07/30/09
OFB-51/52E	08/06/09	08/07/09	08/07/09
OFB-51/52E	08/25/09	08/27/09	08/27/09
OFB-51/52E	09/29/09	10/01/09	10/01/09
OFB-51/52E	08/11/09	08/12/09	08/12/09
OFB-51/52I	07/28/09	07/30/09	07/30/09
OFB-51/52I	08/25/09	08/27/09	08/27/09
OFB-51/52I	09/29/09	10/01/09	10/01/09
OFB-51/52M	07/28/09	07/30/09	07/30/09
OFB-51/52M	08/06/09	08/07/09	08/07/09
OFB-51/52M	08/25/09	08/27/09	08/27/09
OFB-51/52M	09/29/09	10/01/09	10/01/09
OFB-51/52M	08/11/09	08/12/09	08/12/09
OFB-52	07/28/09	07/30/09	07/30/09
OFB-52 (FD)	07/28/09	07/30/09	07/30/09
OFB-54	07/28/09	07/30/09	07/30/09
OFB-56	07/28/09	07/31/09	07/31/09
TB-07/15/09	07/15/09	07/21/09	07/21/09

TABLE 4-1.2

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Date Sampled	USEPA 524.2 Date Prepared	USEPA 524.2 Date Analyzed
TB-07/28/09	07/28/09	07/30/09	07/30/09
TB-08/06/09	08/06/09	08/07/09	08/07/09
TB-08/11/09	08/11/09	08/12/09	08/12/09
TB-08/25/09	08/25/09	08/27/09	08/27/09
TB-09/29/09	09/29/09	10/01/09	10/01/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.3

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	TPH as Diesel		TPH as Gasoline	
		Date Prepared	Date Analyzed	Date Prepared	Date Analyzed
7-PTE	07/23/09	07/30/09	08/29/09	07/28/09	07/28/09
7-PTE	08/06/09	--	--	08/12/09	08/12/09
7-PTE	08/20/09	--	--	09/02/09	09/02/09
7-PTE	07/09/09	--	--	07/20/09	07/20/09
7-PTE	09/17/09	--	--	09/28/09	09/28/09
7-PTE	09/03/09	--	--	09/10/09	09/10/09
7-PTI	07/23/09	07/30/09	08/29/09	07/28/09	07/28/09
7-PTI (FD)	07/23/09	07/30/09	08/29/09	07/28/09	07/28/09
7-PTI (MS)	07/23/09	07/30/09	08/29/09	07/28/09	07/28/09
7-PTI (MSD)	07/23/09	07/30/09	08/29/09	07/28/09	07/28/09
7-PZ-37	07/13/09	07/20/09	08/24/09	07/20/09	07/20/09
7-PZ-37P	07/13/09	07/20/09	08/24/09	07/20/09	07/20/09
7-PZ-37P (FD)	07/13/09	07/20/09	08/24/09	07/21/09	07/21/09
7-PZ-37P (MS)	07/13/09	07/20/09	08/24/09	07/21/09	07/21/09
7-PZ-37P (MSD)	07/13/09	07/20/09	08/24/09	07/21/09	07/21/09
ACW PTE	07/23/09	07/27/09	08/25/09	--	--
ACW PTE (FD)	07/23/09	07/27/09	08/25/09	--	--
ACW PTE (MS)	07/23/09	07/27/09	08/25/09	--	--
ACW PTE (MSD)	07/23/09	07/27/09	08/25/09	--	--
MAFB-149	07/13/09	07/20/09	08/24/09	07/20/09	07/20/09
MAFB-284	07/13/09	07/20/09	08/24/09	07/20/09	07/20/09
MAFB-413	07/13/09	07/20/09	08/24/09	07/20/09	07/20/09
MAFB-439	07/16/09	07/20/09	08/24/09	07/25/09	07/25/09
MBS PTE AF	07/23/09	07/27/09	08/25/09	07/28/09	07/28/09
MBS PTI	07/23/09	07/27/09	08/27/09	07/28/09	07/28/09
MBS PTI (FD)	07/23/09	07/27/09	08/25/09	07/28/09	07/28/09
MBS PTI (MS)	07/23/09	07/27/09	08/25/09	07/28/09	07/28/09
MBS PTI (MSD)	07/23/09	07/27/09	08/25/09	07/28/09	07/28/09
TB-07/09/09	07/09/09	--	--	07/20/09	07/20/09
TB-07/13/09	07/13/09	--	--	07/20/09	07/20/09
TB-07/16/09	07/16/09	--	--	07/20/09	07/20/09
TB-07/23/09	07/23/09	--	--	07/28/09	07/28/09
TB-08/06/09	08/06/09	--	--	08/12/09	08/12/09
TB-08/20/09	08/20/09	--	--	09/02/09	09/02/09
TB-09/03/09	09/03/09	--	--	09/10/09	09/10/09
TB-09/17/09	09/17/09	--	--	09/28/09	09/28/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.4

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 6010 - ICP METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 6010 Date Prepared	USEPA 6010 Date Analyzed
7-PTE	07/23/09	07/28/09	07/28/09
7-PTI	07/23/09	07/28/09	07/28/09
7-PTI (FD)	07/23/09	07/28/09	07/28/09
7-PTI (MS)	07/23/09	07/28/09	07/28/09
7-PTI (MSD)	07/23/09	07/28/09	07/28/09
7-PZ-37	07/13/09	07/15/09	07/16/09
7-PZ-37P	07/13/09	07/15/09	07/16/09
7-PZ-37P (FD)	07/13/09	07/15/09	07/16/09
7-PZ-37P (MS)	07/13/09	07/15/09	07/16/09
7-PZ-37P (MSD)	07/13/09	07/15/09	07/16/09
ACW PTE	07/23/09	07/28/09	07/28/09
ACW PTI	07/23/09	07/28/09	07/28/09
ACW PTI (FD)	07/23/09	07/28/09	07/28/09
ACW PTI (MS)	07/23/09	07/28/09	07/28/09
ACW PTI (MSD)	07/23/09	07/28/09	07/28/09
MAFB-111	07/14/09	07/16/09	07/21/09
MAFB-112	07/15/09	07/19/09	07/21/09
MAFB-129	07/14/09	07/16/09	07/21/09
MAFB-132	07/15/09	07/19/09	07/21/09
MAFB-133	07/16/09	07/19/09	07/21/09
MAFB-133 (FD)	07/16/09	07/19/09	07/21/09
MAFB-133 (MS)	07/16/09	07/19/09	07/21/09
MAFB-133 (MSD)	07/16/09	07/19/09	07/21/09
MAFB-136	07/16/09	07/19/09	07/21/09
MAFB-288	07/14/09	07/16/09	07/21/09
MAFB-400	07/14/09	07/16/09	07/21/09
MAFB-400 (FD)	07/14/09	07/16/09	07/21/09
MAFB-413	07/13/09	07/15/09	07/16/09
MAFB-424	07/13/09	07/15/09	07/16/09
MAFB-439	07/16/09	07/19/09	07/21/09
MBS PTE AF	07/23/09	07/28/09	07/28/09
MBS PTI	07/23/09	07/28/09	07/28/09
MBS PTI (FD)	07/23/09	07/28/09	07/28/09
MBS PTI (MS)	07/23/09	07/28/09	07/28/09
MBS PTI (MSD)	07/23/09	07/28/09	07/28/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.5

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 6020 - THALLIUM
USEPA METHOD 7470 - MERCURY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 6020 Date Prepared	USEPA 6020 Date Analyzed	USEPA 7470 Date Prepared	USEPA 7470 Date Analyzed
MAFB-132	07/15/09	07/17/09	07/24/09	07/19/09	07/28/09
MAFB-133	07/16/09	07/19/09	07/24/09	07/19/09	07/28/09
MAFB-133 (FD)	07/16/09	07/19/09	07/24/09	07/19/09	07/28/09
MAFB-133 (MS)	07/16/09	07/19/09	07/24/09	07/19/09	07/28/09
MAFB-133 (MSD)	07/16/09	07/19/09	07/24/09	07/19/09	07/28/09
MAFB-136	07/16/09	07/19/09	07/24/09	07/19/09	07/28/09
MAFB-424	07/13/09	07/17/09	07/24/09	07/15/09	07/23/09
MBS PTE AF	07/23/09	07/29/09	07/31/09	07/29/09	08/03/09
MBS PTI	07/23/09	07/29/09	07/31/09	07/29/09	08/03/09
MBS PTI (FD)	07/23/09	07/29/09	07/31/09	07/29/09	08/03/09
MBS PTI (MS)	07/23/09	07/29/09	07/31/09	07/29/09	08/03/09
MBS PTI (MSD)	07/23/09	07/29/09	07/31/09	07/29/09	08/03/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.6

SUMMARY OF EXTRACTION AND ANALYSIS DATES
STANDARD METHOD 2320 - ALKALINITY
USEPA METHOD 130.2 - HARDNESS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	SM 2320 Date Prepared	SM 2320 Date Analyzed	USEPA 130.2 Date Prepared	USEPA 130.2 Date Analyzed
7-PTE	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
7-PTI	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
7-PTI (FD)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
7-PTI (MS)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
7-PTI (MSD)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
ACW PTE	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
ACW PTI	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
ACW PTI (FD)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
ACW PTI (MS)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
ACW PTI (MSD)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
MAFB-132	07/15/09	07/22/09	07/22/09	--	--
MAFB-133	07/16/09	07/22/09	07/22/09	--	--
MAFB-133 (FD)	07/16/09	07/22/09	07/22/09	--	--
MAFB-133 (MS)	07/16/09	07/22/09	07/22/09	--	--
MAFB-133 (MSD)	07/16/09	07/22/09	07/22/09	--	--
MAFB-136	07/16/09	07/22/09	07/22/09	--	--
MAFB-424	07/13/09	07/15/09	07/15/09	--	--
MBS PTE AF	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
MBS PTI	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
MBS PTI (FD)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
MBS PTI (MS)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09
MBS PTI (MSD)	07/23/09	07/28/09	07/28/09	08/04/09	08/04/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.7

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 160.1 - TOTAL FILTERABLE RESIDUE
USEPA METHOD 160.2 - TOTAL SUSPENDED SOLIDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 160.1 Date Prepared	USEPA 160.1 Date Analyzed	USEPA 160.2 Date Prepared	USEPA 160.2 Date Analyzed
7-PTE	07/23/09	07/29/09	07/29/09	--	--
7-PTI	07/23/09	07/29/09	07/29/09	--	--
7-PTI (FD)	07/23/09	07/29/09	07/29/09	--	--
7-PTI (MS)	07/23/09	07/29/09	07/29/09	--	--
7-PTI (MSD)	07/23/09	07/29/09	07/29/09	--	--
ACW PTE	07/23/09	07/29/09	07/29/09	--	--
ACW PTI	07/23/09	07/29/09	07/29/09	--	--
ACW PTI (FD)	07/23/09	07/29/09	07/29/09	--	--
ACW PTI (MS)	07/23/09	07/29/09	07/29/09	--	--
ACW PTI (MSD)	07/23/09	07/29/09	07/29/09	--	--
MAFB-132	07/15/09	07/21/09	07/21/09	--	--
MAFB-133	07/16/09	07/21/09	07/21/09	--	--
MAFB-133 (FD)	07/16/09	07/21/09	07/21/09	--	--
MAFB-133 (MS)	07/16/09	07/21/09	07/21/09	--	--
MAFB-133 (MSD)	07/16/09	07/21/09	07/21/09	--	--
MAFB-136	07/16/09	07/21/09	07/21/09	--	--
MAFB-424	07/13/09	07/16/09	07/16/09	--	--
MBS PTE AF	07/23/09	07/29/09	07/29/09	07/30/09	07/30/09
MBS PTI	07/23/09	07/29/09	07/29/09	07/30/09	07/30/09
MBS PTI (DUP)	07/23/09	--	--	07/30/09	07/30/09
MBS PTI (FD)	07/23/09	07/29/09	07/29/09	07/30/09	07/30/09
MBS PTI (MS)	07/23/09	07/29/09	07/29/09	--	--
MBS PTI (MSD)	07/23/09	07/29/09	07/29/09	--	--

Notes:
DUP - Laboratory Duplicate
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.8

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 300.0 - CHLORIDE, NITRATE, AND SULFATE
USEPA METHOD 314.0 - PERCHLORATE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 300.0 Date Prepared		USEPA 300.0 Date Analyzed		USEPA 314.0 Date Prepared	USEPA 314.0 Date Analyzed
7-PTE	07/23/09	07/24/09		07/24/09		--	--
7-PTI	07/23/09	07/24/09		07/24/09		--	--
7-PTI (FD)	07/23/09	07/24/09		07/24/09		--	--
7-PTI (MS)	07/23/09	07/24/09		07/24/09		--	--
7-PTI (MSD)	07/23/09	07/24/09		07/24/09		--	--
ACW PTE	07/23/09	07/24/09		07/24/09		08/05/09	08/05/09
ACW PTE (FD)	07/23/09	--		--		08/05/09	08/05/09
ACW PTE (MS)	07/23/09	--		--		08/05/09	08/05/09
ACW PTE (MSD)	07/23/09	--		--		08/05/09	08/05/09
ACW PTI	07/23/09	07/24/09		07/24/09		--	--
ACW PTI (FD)	07/23/09	07/24/09		07/24/09		--	--
ACW PTI (MS)	07/23/09	07/24/09		07/24/09		--	--
ACW PTI (MSD)	07/23/09	07/24/09		07/24/09		--	--
MAFB-132	07/15/09	07/16/09		07/16/09		--	--
MAFB-132 (RE)	07/15/09	07/16/09		07/16/09		--	--
MAFB-133	07/16/09	07/17/09		07/17/09		--	--
MAFB-133 (FD)	07/16/09	07/17/09		07/17/09		--	--
MAFB-133 (MS)	07/16/09	07/17/09		07/17/09		--	--
MAFB-133 (MSD)	07/16/09	07/17/09		07/17/09		--	--
MAFB-136	07/16/09	07/17/09		07/17/09		--	--
MAFB-424	07/13/09	07/14/09		07/14/09		--	--
MBS PTE AF	07/23/09	07/24/09		07/24/09		08/05/09	08/05/09
MBS PTE AF (FD)	07/23/09	--		--		08/06/09	08/06/09
MBS PTE AF (MS)	07/23/09	--		--		08/05/09	08/05/09
MBS PTE AF (MSD)	07/23/09	--		--		08/06/09	08/06/09
MBS PTI	07/23/09	07/24/09		07/24/09		--	--
MBS PTI (FD)	07/23/09	07/24/09		07/24/09		--	--
MBS PTI (MS)	07/23/09	08/18/09	*	08/18/09	*	--	--
MBS PTI (MSD)	07/23/09	08/18/09	*	08/18/09	*	--	--

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RE - Sample Reanalysis

* Analytical holding time requirement not met.

TABLE 4-1.9

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 340.2 - FLUORIDE
USEPA METHOD 376.1 - TOTAL SULFIDE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 340.2 Date Prepared	USEPA 340.2 Date Analyzed	USEPA 376.1 Date Prepared	USEPA 376.1 Date Analyzed
MAFB-132	07/15/09	08/03/09	08/03/09	07/16/09	07/16/09
MAFB-133	07/16/09	08/03/09	08/03/09	07/17/09	07/17/09
MAFB-133 (FD)	07/16/09	08/03/09	08/03/09	07/17/09	07/17/09
MAFB-133 (MS)	07/16/09	08/03/09	08/03/09	07/17/09	07/17/09
MAFB-133 (MSD)	07/16/09	08/03/09	08/03/09	07/17/09	07/17/09
MAFB-136	07/16/09	08/03/09	08/03/09	07/17/09	07/17/09
MAFB-424	07/13/09	07/31/09	07/31/09	07/14/09	07/14/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.10

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 7196 - HEXAVALENT CHROMIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 7196 Date Prepared	USEPA 7196 Date Analyzed
MAFB-424	07/13/09	07/14/09	07/14/09
MAFB-424 (FD)	07/13/09	07/14/09	07/14/09
MAFB-424 (MS)	07/13/09	07/14/09	07/14/09
MAFB-424 (MSD)	07/13/09	07/14/09	07/14/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

5.0 QA/QC SUMMARY REPORT

The tables presented in this section correspond to Table A-7 of the Handbook (Appendix A, Tab 6), which has been separated into four distinct table types for this ADR. The Analytical Batch Summary (Table 5-1.1) contains the laboratory batch assignments of all field samples for each method utilized during the Third Quarter Groundwater Monitoring event. The Matrix Spike and Matrix Spike Duplicate Batch Summary (Table 5-1.2) identifies which field samples are associated with each Matrix Spike/Matrix Spike Duplicate sample for each method utilized. Laboratory method blank results for each batch are addressed in the Analytical Data Summary (Section 2.0). The Laboratory Control Sample Recovery Summary (Tables 5-2.1 through 5-2.6) contains accuracy results for each LCS analyzed with its associated analytical batch. The Matrix Spike and Matrix Spike Duplicate Recovery Summary (Tables 5-3.1 through 5-3.6) contains precision and accuracy results for each MS/MSD duplicate pair analyzed. The Laboratory Duplicate Summary (Table 5-4) contains precision results for each laboratory duplicate sample.

Results for carbonate, bicarbonate, and hydroxide alkalinity are by calculation. As a result, no quality control data have been provided for these results.

Due to the limitations of the current Electronic Data Deliverable (EDD) format, Relative Percent Differences (RPD) in Tables 5-3.1 through 5-3.6 are calculated using MS/MSD percent recoveries, rather than actual observed values, and therefore should not be used for validation purposes. This deviation is limited to these tables only. Data validation qualifiers applied due to RPD nonconformances are based on the calculation from actual MS/MSD values.

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
SM 2320 Alkalinity	T090715A	07/15/09	MB-07/15/09 MAFB-424
	T090722A	07/22/09	MB-07/22/09 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136
	T090728A	07/28/09	MB-07/28/09 7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD) 7-PTI-07/23/09 (MS) 7-PTI-07/23/09 (MSD) ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD) ACW PTI-07/23/09 (MS) ACW PTI-07/23/09 (MSD) MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD) MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD)
USEPA 130.2 Hardness	B090804A	08/04/09	MB-08/04/09 7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD) 7-PTI-07/23/09 (MS) 7-PTI-07/23/09 (MSD) ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD) ACW PTI-07/23/09 (MS) ACW PTI-07/23/09 (MSD) MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD) MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD)
USEPA 160.1 Total Filterable Residue	M090716B	07/16/09	MB-07/16/09 MAFB-424
USEPA 160.1 Total Filterable Residue (continued)	M090721A	07/21/09	MB-07/21/09 MAFB-132
	M090721B	07/21/09	MB-07/21/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	M090729B	07/29/09	MB-07/29/09 7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD) 7-PTI-07/23/09 (MS) 7-PTI-07/23/09 (MSD)
	M090729C	07/29/09	MB-07/29/09 ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD) ACW PTI-07/23/09 (MS) ACW PTI-07/23/09 (MSD)
	M090729E	07/29/09	MB-07/29/09 MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD) MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD)
USEPA 160.2 Total Suspended Solids	M090730A	07/30/09	MB-07/30/09 MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	D090714A	07/14/09	MB-07/14/09 MAFB-424
	D090716A	07/16/09	MB-07/16/09 MAFB-132 MAFB-132 (RE)
	D090717A	07/17/09	MB-07/17/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS)
USEPA 300.0 Chloride, Nitrate, and Sulfate	D090717A (continued)	07/17/09	MAFB-133 (MSD) MAFB-136
	D090724A	07/24/09	MB-07/24/09 7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD) 7-PTI-07/23/09 (MS) 7-PTI-07/23/09 (MSD) ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD) ACW PTI-07/23/09 (MS) ACW PTI-07/23/09 (MSD) MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD) MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 314.0 Perchlorate	D090805B	08/05/09	MB-08/05/09 ACW PTE-07/23/09 ACW PTE-07/23/09 (FD) ACW PTE-07/23/09 (MS) ACW PTE-07/23/09 (MSD) MBS PTE AF-07/23/09 MBS PTE AF-07/23/09 (FD) MBS PTE AF-07/23/09 (MS) MBS PTE AF-07/23/09 (MSD)
USEPA 340.2 Fluoride	M090731A	07/31/09	MB-07/31/09 MAFB-424
	M090803A	08/03/09	MB-08/03/09 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136
USEPA 376.1 Sulfide, total	090714A	07/14/09	MB-07/14/09 MAFB-424
	090716A	07/16/09	MB-07/16/09 MAFB-132
USEPA 376.1 Sulfide, total (continued)	090717A	07/17/09	MB-07/17/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136
USEPA 524.2 VOCs	C091001A	10/01/09	MB-10/01/09 OFB-04-09/29/09 OFB-04M-09/29/09 OFB-51/52E-09/29/09 OFB-51/52I-09/29/09 OFB-51/52M-09/29/09 TB-09/29/09
	M090720A	07/21/09	MB-07/21/09 MAFB-271 MAFB-319 MAFB-321 MAFB-322 MAFB-324 MAFB-324 (MS) MAFB-324 (MSD) MAFB-326 MAFB-328 MAFB-337 MAFB-338 TB-07/15/09
	M090721B	07/21/09	MB-07/21/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-319 (FD) MAFB-324 (FD)
	M090807A	08/07/09	MB-08/07/09 OFB-51/52E-08/06/09 OFB-51/52M-08/06/09 TB-08/06/09
	M090812A	08/12/09	MB-08/12/09 OFB-51/52E-08/11/09 OFB-51/52M-08/11/09 TB-08/11/09
	M090826A	08/27/09	MB-08/27/09 OFB-04-08/25/09 OFB-04M-08/25/09 OFB-51/52E-08/25/09
USEPA 524.2 VOCs	M090826A (continued)	08/27/09	OFB-51/52I-08/25/09 OFB-51/52M-08/25/09 TB-08/25/09
	N090730A	07/30/09	MB-07/30/09 OFB-04-07/28/09 OFB-04M-07/28/09 OFB-27 OFB-27 (FD) OFB-27 (MS) OFB-27 (MSD) OFB-31 OFB-32 OFB-51 OFB-51/52I-07/28/09 OFB-51/52M-07/28/09 OFB-52 OFB-52 (FD)
	N090730B	07/30/09	MB-07/30/09 OFB-49 OFB-54 OFB-56 TB-07/28/09
USEPA 8015 Modified TPH as Diesel	A090720A	07/20/09	MB-07/20/09 7-PZ-37 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-149 MAFB-284 MAFB-413 MAFB-439
	A090727A	07/27/09	MB-07/27/09 ACW PTE-07/23/09 ACW PTE-07/23/09 (FD) ACW PTE-07/23/09 (MS)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			ACW PTE-07/23/09 (MSD) MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD) MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD)
USEPA 8015 Modified TPH as Diesel (continued)	A090730A	07/30/09	MB-07/30/09 7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD) 7-PTI-07/23/09 (MS) 7-PTI-07/23/09 (MSD)
USEPA 8015 Modified TPH as Gasoline	H090720A	07/20/09	MB-07/20/09 7-PTE-07/09/09 7-PZ-37 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-149 MAFB-284 MAFB-413 TB-07/09/09 TB-07/13/09 TB-07/16/09
	H090724A	07/25/09	MB-07/25/09 MAFB-439
	H090728A	07/28/09	MB-07/28/09 7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD) 7-PTI-07/23/09 (MS) 7-PTI-07/23/09 (MSD) MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD) MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD) TB-07/23/09
	H090812A	08/12/09	MB-08/12/09 7-PTE-08/06/09 TB-08/06/09
	H090902A	09/02/09	MB-09/02/09 7-PTE-08/20/09 TB-08/20/09
	H090909A	09/10/09	MB-09/10/09 7-PTE-09/03/09
USEPA 8015 Modified TPH as Gasoline	H090909A (continued)	09/10/09	TB-09/03/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	H090928A	09/28/09	MB-09/28/09 7-PTE-09/17/09 TB-09/17/09
USEPA 6010 ICP Metals	P090715A	07/15/09	MB-07/15/09 7-PZ-37 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-413 MAFB-424
	P090716A	07/16/09	MB-07/16/09 MAFB-111 MAFB-129 MAFB-288 MAFB-400 MAFB-400 (FD)
	P090719A	07/19/09	MB-07/19/09 MAFB-112 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136 MAFB-439
	P090728A	07/28/09	MB-07/28/09 7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD) 7-PTI-07/23/09 (MS) 7-PTI-07/23/09 (MSD) ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD) ACW PTI-07/23/09 (MS) ACW PTI-07/23/09 (MSD) MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 6010 ICP Metals	P090728A (continued)	07/28/09	MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD)
USEPA 6020 Thallium	O090717A	07/17/09	MB-07/17/09 MAFB-132 MAFB-424
	O090719A	07/19/09	MB-07/19/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
	O090729A	07/29/09	MB-07/29/09 MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD) MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD)
USEPA 7196 Hexavalent Chromium	M090714A	07/14/09	MB-07/14/09 MAFB-424 MAFB-424 (FD) MAFB-424 (MS) MAFB-424 (MSD)
USEPA 7470 Mercury	F090715A	07/15/09	MB-07/15/09 MAFB-424
	F090719A	07/19/09	MB-07/19/09 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136
	F090729A	07/29/09	MB-07/29/09 MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD) MBS PTI-07/23/09 (MS) MBS PTI-07/23/09 (MSD)
USEPA 8260 VOCs	C090724A	07/24/09	MB-07/24/09 7-PTE-07/23/09
USEPA 8260 VOCs	C090724A (continued)	07/24/09	7-PTI-07/23/09 (FD) ACW PTE-07/23/09 ACW PTI-07/23/09 (FD) ACW R2 MAFB-441 MAFB-451 MAFB-452B MAFB-452Bu MBS EW-13BuB MBS PTI-07/23/09 (FD) TB-07/23/09
	C090727A	07/27/09	MB-07/27/09 7-PTI-07/23/09 7-PTI-07/23/09 (MS) 7-PTI-07/23/09 (MSD) ACW PTI-07/23/09 ACW PTI-07/23/09 (MS) ACW PTI-07/23/09 (MSD) MAFB-459Dd MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (MS)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MBS PTI-07/23/09 (MSD) TB-07/20/09
	C090918A	09/18/09	MB-09/18/09 7-PTE-09/17/09 ACW PTE-09/17/09 MBS PTE AF-09/17/09 TB-09/17/09
	M090713A	07/13/09	MB-07/13/09 7-PTE-07/09/09 ACW PTE-07/09/09
	M090724A	07/24/09	MB-07/24/09 MAFB-435 MAFB-450 MAFB-459D
	M090818A	08/18/09	MB-08/18/09 OFB-72 OFB-80 TB-08/17/09
USEPA 8260 VOCs (continued)	N090807A	08/07/09	MB-08/07/09 7-PTE-08/06/09 ACW PTE-08/06/09
	S090715A	07/16/09	MB-07/16/09 MAFB-449Bd MAFB-449Bs MAFB-457Bd MAFB-457Bs MAFB-457Bs (FD) MAFB-458Bd MAFB-458Bs MBS PTE AF-07/09/09 TB-07/09/09
	S090716A	07/16/09	MB-07/16/09 7-PZ-37 7-PZ-37P 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-149 MAFB-284 MAFB-444 MAFB-445 MAFB-446 MAFB-446 (FD) MAFB-447 MAFB-448 TB-07/13/09
	S090716B	07/17/09	MB-07/17/09 7-PZ-37P (FD) MAFB-132

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-354B MAFB-354D MAFB-388Ds MAFB-413 MAFB-424 MAFB-438 MAFB-442 MAFB-443 TB-07/14/09
	S090717A	07/17/09	MB-07/17/09 MAFB-378B MAFB-378B (FD) MAFB-378D
USEPA 8260 VOCs	S090717A (continued)	07/17/09	MAFB-378D (MS) MAFB-378D (MSD) MAFB-397 MAFB-453 MAFB-453C MAFB-454 MAFB-454C TB-07/15/09 TB-07/16/09
	S090717B	07/18/09	MB-07/18/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-136 MAFB-439 MAFB-439 (FD) MAFB-439 (MS) MAFB-439 (MSD)
	S090720B	07/20/09	MB-07/20/09 ACW PZ-05 MAFB-455 MAFB-456 MAFB-456C
	S090729A	07/28/09	MB-07/28/09 MAFB-293 MAFB-318 MAFB-426
	S090811A	08/11/09	MB-08/11/09 MBS PTE AF-08/06/09 TB-08/06/09
	S090821A	08/21/09	MB-08/21/09 7-PTE-08/20/09 ACW PTE-08/20/09 MBS PTE AF-08/20/09 TB-08/20/09
	S090904A	09/04/09	MB-09/04/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 10)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			7-PTE-09/03/09 ACW PTE-09/03/09 MBS PTE AF-09/03/09 TB-09/03/09

Notes:
FD - Field Duplicate
ICP - Inductively Coupled Plasma
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RE - Sample Reanalysis
SM - Standard Methods
TB - Trip Blank
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
SM 2320 Alkalinity	7-PTI-07/23/09	7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD)
	ACW PTI-07/23/09	ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-07/23/09	MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 130.2 Hardness	7-PTI-07/23/09	7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD)
	ACW PTI-07/23/09	ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD)
	MBS PTI-07/23/09	MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 160.1 Total Filterable Residue	7-PTI-07/23/09	7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD)
	ACW PTI-07/23/09	ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-07/23/09	MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 160.2 Total Suspended Solids	NA	MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	7-PTI-07/23/09	7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD)
	ACW PTI-07/23/09	ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-07/23/09	MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 314.0 Perchlorate	ACW PTE-07/23/09	ACW PTE-07/23/09 ACW PTE-07/23/09 (FD)
	MBS PTE AF-07/23/09	MBS PTE AF-07/23/09 MBS PTE AF-07/23/09 (FD)
USEPA 340.2 Fluoride	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
USEPA 376.1 Sulfide, total	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
USEPA 524.2 VOCs	MAFB-324	MAFB-271 MAFB-319 MAFB-319 (FD) MAFB-321 MAFB-322 MAFB-324

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 524.2 VOCs	MAFB-324 (continued)	MAFB-324 (FD) MAFB-326 MAFB-328 MAFB-337 MAFB-338 OFB-31 OFB-32 OFB-49 OFB-51 OFB-52 OFB-52 (FD) OFB-54 OFB-56
	OFB-27	OFB-04-07/28/09 OFB-04-08/25/09 OFB-04-09/29/09 OFB-04M-07/28/09 OFB-04M-08/25/09 OFB-04M-09/29/09 OFB-27 OFB-27 (FD) OFB-51/52E-08/06/09 OFB-51/52E-08/11/09 OFB-51/52E-08/25/09 OFB-51/52E-09/29/09 OFB-51/52I-07/28/09 OFB-51/52I-08/25/09 OFB-51/52I-09/29/09 OFB-51/52M-07/28/09 OFB-51/52M-08/06/09 OFB-51/52M-08/11/09 OFB-51/52M-08/25/09 OFB-51/52M-09/29/09
USEPA 8015 Modified TPH as Diesel	7-PTI-07/23/09	7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD)
	7-PZ-37P	7-PZ-37 7-PZ-37P 7-PZ-37P (FD) MAFB-149 MAFB-284 MAFB-413
	ACW PTE-07/23/09	ACW PTE-07/23/09

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		ACW PTE-07/23/09 (FD)
USEPA 8015 Modified TPH as Diesel (continued)	MBS PTI-07/23/09	MAFB-439 MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 8015 Modified TPH as Gasoline	7-PTI-07/23/09	7-PTE-07/09/09 7-PTE-07/23/09 7-PTE-08/06/09 7-PTE-08/20/09 7-PTE-09/03/09 7-PTE-09/17/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD)
	7-PZ-37P	7-PZ-37 7-PZ-37P 7-PZ-37P (FD) MAFB-149 MAFB-284 MAFB-413
	MBS PTI-07/23/09	MAFB-439 MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 6010 ICP Metals	7-PTI-07/23/09	7-PTE-07/23/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD)
	7-PZ-37P	7-PZ-37 7-PZ-37P 7-PZ-37P (FD) MAFB-413 MAFB-424
	ACW PTI-07/23/09	ACW PTE-07/23/09 ACW PTI-07/23/09 ACW PTI-07/23/09 (FD)
	MAFB-133	MAFB-111 MAFB-112 MAFB-129 MAFB-132

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 6010 ICP Metals	MAFB-133 (continued)	MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-288 MAFB-400 MAFB-400 (FD)
	MBS PTI-07/23/09	MAFB-439 MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 6020 Thallium	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-07/23/09	MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 7196 Hexavalent Chromium	MAFB-424	MAFB-424 MAFB-424 (FD)
USEPA 7470 Thallium	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-424
	MBS PTI-07/23/09	MBS PTE AF-07/23/09 MBS PTI-07/23/09 MBS PTI-07/23/09 (FD)
USEPA 8260 VOCs	7-PTI-07/23/09	7-PTE-07/09/09 7-PTE-07/23/09 7-PTE-08/06/09 7-PTE-08/20/09 7-PTE-09/03/09 7-PTE-09/17/09 7-PTI-07/23/09 7-PTI-07/23/09 (FD) MAFB-444 MAFB-445 MAFB-446 MAFB-446 (FD)

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-447
		MAFB-448
	7-PZ-37P	7-PZ-37
		7-PZ-37P
USEPA 8260	7-PZ-37P	7-PZ-37P (FD)
VOCs	(continued)	MAFB-149
		MAFB-284
		MAFB-413
		MAFB-424
	ACW PTI-07/23/09	ACW PTE-07/09/09
		ACW PTE-07/23/09
		ACW PTE-08/06/09
		ACW PTE-08/20/09
		ACW PTE-09/03/09
		ACW PTE-09/17/09
		ACW PTI-07/23/09
		ACW PTI-07/23/09 (FD)
		ACW PZ-05
		ACW R2
		MAFB-453
		MAFB-453C
		MAFB-454
		MAFB-454C
		MAFB-455
		MAFB-456
		MAFB-456C
	MAFB-133	MAFB-132
		MAFB-133
		MAFB-133 (FD)
		MAFB-136
	MAFB-378D	MAFB-354B
		MAFB-354D
		MAFB-378B
		MAFB-378B (FD)
		MAFB-378D
		MAFB-388Ds
		MAFB-397
		MAFB-438
		MAFB-442
		MAFB-443
		MAFB-449Bd
		MAFB-449Bs
		MAFB-457Bd

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 7)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-457Bs
		MAFB-457Bs (FD)
		MAFB-458Bd
		MAFB-458Bs
USEPA 8260 VOCs (continued)	MAFB-439	MAFB-293
		MAFB-318
		MAFB-426
		MAFB-435
		MAFB-439
		MAFB-439 (FD)
		MAFB-441
		MAFB-450
		MAFB-451
		MAFB-452B
		MAFB-452Bu
		MAFB-459D
		MAFB-459Dd
	MBS PTI-07/23/09	MBS EW-13BuB
		MBS PTE AF-07/09/09
		MBS PTE AF-07/23/09
		MBS PTE AF-08/06/09
		MBS PTE AF-08/20/09
		MBS PTE AF-09/03/09
		MBS PTE AF-09/17/09
		MBS PTI-07/23/09
		MBS PTI-07/23/09 (FD)
		OFB-72
		OFB-80

Notes:
FD - Field Duplicate
ICP - Inductively Coupled Plasma
NA - Not Applicable
SM - Standard Methods
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
C090724A	1,1,1-Trichloroethane	98	67-132	yes
	1,1,2,2-Tetrachloroethane	96	63-128	yes
	1,1,2-Trichloroethane	89	75-125	yes
	1,1-Dichloroethane	96	69-133	yes
	1,1-Dichloroethene	102	68-130	yes
	1,2-Dichlorobenzene	93	71-122	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	93	74-123	yes
	Benzene	98	81-122	yes
	Bromodichloromethane	96	76-121	yes
	Bromoform	90	69-128	yes
	Bromomethane	83	30-141	yes
	Carbon tetrachloride	97	66-138	yes
	Chlorobenzene	92	81-122	yes
	Chloroethane	87	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	101	56-131	yes
	cis-1,2-Dichloroethene	96	72-126	yes
	cis-1,3-Dichloropropene	96	69-131	yes
	Dibromochloromethane	93	66-133	yes
	Dichlorodifluoromethane	100	30-153	yes
	Ethylbenzene	97	73-127	yes
	Methylene chloride	94	63-137	yes
	Tetrachloroethene	94	66-128	yes
	Toluene	98	77-122	yes
	trans-1,2-Dichloroethene	102	63-137	yes
	trans-1,3-Dichloropropene	93	59-135	yes
	Trichloroethene	87	70-127	yes
	Trichlorofluoromethane	98	57-129	yes
	Vinyl chloride	103	50-134	yes
	Xylenes, total	98	76-128	yes
C090727A	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	96	75-125	yes
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	92	71-122	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	104	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	93	74-123	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Benzene	99	81-122	yes
C090727A	Bromodichloromethane	100	76-121	yes
(continued)	Bromoform	83	69-128	yes
	Bromomethane	84	30-141	yes
	Carbon tetrachloride	102	66-138	yes
	Chlorobenzene	93	81-122	yes
	Chloroethane	88	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	103	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
	cis-1,3-Dichloropropene	102	69-131	yes
	Dibromochloromethane	104	66-133	yes
	Dichlorodifluoromethane	98	30-153	yes
	Ethylbenzene	95	73-127	yes
	Methylene chloride	99	63-137	yes
	Tetrachloroethene	94	66-128	yes
	Toluene	98	77-122	yes
	trans-1,2-Dichloroethene	109	63-137	yes
	trans-1,3-Dichloropropene	96	59-135	yes
	Trichloroethene	99	70-127	yes
	Trichlorofluoromethane	92	57-129	yes
	Vinyl chloride	102	50-134	yes
	Xylenes, total	96	76-128	yes
C090918A	1,1,1-Trichloroethane	103	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	101	75-125	yes
	1,1-Dichloroethane	103	69-133	yes
	1,1-Dichloroethene	102	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	95	75-125	yes
	1,3-Dichlorobenzene	93	75-124	yes
	1,4-Dichlorobenzene	98	74-123	yes
	Benzene	101	81-122	yes
	Bromodichloromethane	102	76-121	yes
	Bromoform	93	69-128	yes
	Bromomethane	82	30-141	yes
	Carbon tetrachloride	112	66-138	yes
	Chlorobenzene	104	81-122	yes
	Chloroethane	93	58-133	yes
	Chloroform	102	69-128	yes
	Chloromethane	93	56-131	yes
	cis-1,2-Dichloroethene	103	72-126	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	cis-1,3-Dichloropropene	103	69-131	yes
	Dibromochloromethane	100	66-133	yes
C090918A	Dichlorodifluoromethane	106	30-153	yes
(continued)	Ethylbenzene	104	73-127	yes
	Methylene chloride	94	63-137	yes
	Tetrachloroethene	102	66-128	yes
	Toluene	101	77-122	yes
	trans-1,2-Dichloroethene	101	63-137	yes
	trans-1,3-Dichloropropene	96	59-135	yes
	Trichloroethene	98	70-127	yes
	Trichlorofluoromethane	95	57-129	yes
	Vinyl chloride	99	50-134	yes
	Xylenes, total	105	76-128	yes
M090713A	1,1,1-Trichloroethane	105	67-132	yes
	1,1,2,2-Tetrachloroethane	105	63-128	yes
	1,1,2-Trichloroethane	99	75-125	yes
	1,1-Dichloroethane	103	69-133	yes
	1,1-Dichloroethene	104	68-130	yes
	1,2-Dichlorobenzene	108	71-122	yes
	1,2-Dichloroethane	103	69-132	yes
	1,2-Dichloropropane	100	75-125	yes
	1,3-Dichlorobenzene	110	75-124	yes
	1,4-Dichlorobenzene	110	74-123	yes
	Benzene	104	81-122	yes
	Bromodichloromethane	104	76-121	yes
	Bromoform	92	69-128	yes
	Bromomethane	81	30-141	yes
	Carbon tetrachloride	109	66-138	yes
	Chlorobenzene	102	81-122	yes
	Chloroethane	101	58-133	yes
	Chloroform	104	69-128	yes
	Chloromethane	120	56-131	yes
	cis-1,2-Dichloroethene	102	72-126	yes
	cis-1,3-Dichloropropene	101	69-131	yes
	Dibromochloromethane	99	66-133	yes
	Dichlorodifluoromethane	104	30-153	yes
	Ethylbenzene	103	73-127	yes
	Methylene chloride	98	63-137	yes
	Tetrachloroethene	104	66-128	yes
	Toluene	104	77-122	yes
	trans-1,2-Dichloroethene	103	63-137	yes
	trans-1,3-Dichloropropene	100	59-135	yes
	Trichloroethene	102	70-127	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Trichlorofluoromethane	106	57-129	yes
	Vinyl chloride	113	50-134	yes
	Xylenes, total	105	76-128	yes
M090724A	1,1,1-Trichloroethane	102	67-132	yes
	1,1,2,2-Tetrachloroethane	99	63-128	yes
	1,1,2-Trichloroethane	101	75-125	yes
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	103	68-130	yes
	1,2-Dichlorobenzene	102	71-122	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	100	75-125	yes
	1,3-Dichlorobenzene	102	75-124	yes
	1,4-Dichlorobenzene	101	74-123	yes
	Benzene	98	81-122	yes
	Bromodichloromethane	99	76-121	yes
	Bromoform	104	69-128	yes
	Bromomethane	82	30-141	yes
	Carbon tetrachloride	101	66-138	yes
	Chlorobenzene	100	81-122	yes
	Chloroethane	96	58-133	yes
	Chloroform	98	69-128	yes
	Chloromethane	100	56-131	yes
	cis-1,2-Dichloroethene	97	72-126	yes
	cis-1,3-Dichloropropene	99	69-131	yes
	Dibromochloromethane	98	66-133	yes
	Dichlorodifluoromethane	92	30-153	yes
	Ethylbenzene	101	73-127	yes
	Methylene chloride	97	63-137	yes
	Tetrachloroethene	99	66-128	yes
	Toluene	99	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	96	59-135	yes
	Trichloroethene	105	70-127	yes
	Trichlorofluoromethane	94	57-129	yes
	Vinyl chloride	98	50-134	yes
	Xylenes, total	101	76-128	yes
M090818A	1,1-Dichloroethene	102	68-130	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,4-Dichlorobenzene	93	74-123	yes
	Carbon tetrachloride	103	66-138	yes
	Chloroform	100	69-128	yes
	Chloromethane	106	56-131	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	cis-1,2-Dichloroethene	99	72-126	yes
	Tetrachloroethene	100	66-128	yes
	Trichloroethene	101	70-127	yes
	Vinyl chloride	88	50-134	yes
N090807A	1,1,1-Trichloroethane	107	67-132	yes
	1,1,2,2-Tetrachloroethane	91	63-128	yes
	1,1,2-Trichloroethane	102	75-125	yes
	1,1-Dichloroethane	113	69-133	yes
	1,1-Dichloroethene	109	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	104	69-132	yes
	1,2-Dichloropropane	106	75-125	yes
	1,3-Dichlorobenzene	95	75-124	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Benzene	104	81-122	yes
	Bromodichloromethane	100	76-121	yes
	Bromoform	90	69-128	yes
	Bromomethane	97	30-141	yes
	Carbon tetrachloride	103	66-138	yes
	Chlorobenzene	98	81-122	yes
	Chloroethane	104	58-133	yes
	Chloroform	98	69-128	yes
	Chloromethane	97	56-131	yes
	cis-1,2-Dichloroethene	101	72-126	yes
	cis-1,3-Dichloropropene	107	69-131	yes
	Dibromochloromethane	94	66-133	yes
	Dichlorodifluoromethane	96	30-153	yes
	Ethylbenzene	98	73-127	yes
	Methylene chloride	92	63-137	yes
	Tetrachloroethene	99	66-128	yes
	Toluene	103	77-122	yes
	trans-1,2-Dichloroethene	101	63-137	yes
	trans-1,3-Dichloropropene	102	59-135	yes
	Trichloroethene	101	70-127	yes
	Trichlorofluoromethane	109	57-129	yes
	Vinyl chloride	102	50-134	yes
	Xylenes, total	104	76-128	yes
S090715A	1,1,1-Trichloroethane	101	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	99	75-125	yes
	1,1-Dichloroethane	101	69-133	yes
	1,1-Dichloroethene	102	68-130	yes
	1,2-Dichlorobenzene	106	71-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichloroethane	96	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	104	75-124	yes
	1,4-Dichlorobenzene	105	74-123	yes
	Benzene	101	81-122	yes
S090715A	Bromodichloromethane	97	76-121	yes
(continued)	Bromoform	108	69-128	yes
	Bromomethane	112	30-141	yes
	Carbon tetrachloride	100	66-138	yes
	Chlorobenzene	99	81-122	yes
	Chloroethane	106	58-133	yes
	Chloroform	97	69-128	yes
	Chloromethane	97	56-131	yes
	cis-1,2-Dichloroethene	107	72-126	yes
	cis-1,3-Dichloropropene	96	69-131	yes
	Dibromochloromethane	96	66-133	yes
	Dichlorodifluoromethane	118	30-153	yes
	Ethylbenzene	101	73-127	yes
	Methylene chloride	106	63-137	yes
	Tetrachloroethene	100	66-128	yes
	Toluene	104	77-122	yes
	trans-1,2-Dichloroethene	103	63-137	yes
	trans-1,3-Dichloropropene	102	59-135	yes
	Trichloroethene	107	70-127	yes
	Trichlorofluoromethane	105	57-129	yes
	Vinyl chloride	87	50-134	yes
	Xylenes, total	102	76-128	yes
S090716A	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	98	63-128	yes
	1,1,2-Trichloroethane	96	75-125	yes
	1,1-Dichloroethane	103	69-133	yes
	1,1-Dichloroethene	104	68-130	yes
	1,2-Dichlorobenzene	100	71-122	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	100	75-125	yes
	1,3-Dichlorobenzene	97	75-124	yes
	1,4-Dichlorobenzene	96	74-123	yes
	Benzene	102	81-122	yes
	Bromodichloromethane	100	76-121	yes
	Bromoform	105	69-128	yes
	Bromomethane	96	30-141	yes
	Carbon tetrachloride	104	66-138	yes
	Chlorobenzene	101	81-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Chloroethane	100	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	98	56-131	yes
	cis-1,2-Dichloroethene	103	72-126	yes
	cis-1,3-Dichloropropene	101	69-131	yes
	Dibromochloromethane	98	66-133	yes
S090716A	Dichlorodifluoromethane	110	30-153	yes
(continued)	Ethylbenzene	101	73-127	yes
	Methylene chloride	109	63-137	yes
	Tetrachloroethene	102	66-128	yes
	Toluene	101	77-122	yes
	trans-1,2-Dichloroethene	107	63-137	yes
	trans-1,3-Dichloropropene	102	59-135	yes
	Trichloroethene	101	70-127	yes
	Trichlorofluoromethane	103	57-129	yes
	Vinyl chloride	85	50-134	yes
	Xylenes, total	102	76-128	yes
S090716B	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	94	63-128	yes
	1,1,2-Trichloroethane	96	75-125	yes
	1,1-Dichloroethane	106	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	99	71-122	yes
	1,2-Dichloroethane	100	69-132	yes
	1,2-Dichloropropane	98	75-125	yes
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	92	74-123	yes
	Benzene	101	81-122	yes
	Bromodichloromethane	100	76-121	yes
	Bromoform	107	69-128	yes
	Bromomethane	98	30-141	yes
	Carbon tetrachloride	102	66-138	yes
	Chlorobenzene	100	81-122	yes
	Chloroethane	102	58-133	yes
	Chloroform	101	69-128	yes
	Chloromethane	105	56-131	yes
	cis-1,2-Dichloroethene	101	72-126	yes
	cis-1,3-Dichloropropene	100	69-131	yes
	Dibromochloromethane	99	66-133	yes
	Dichlorodifluoromethane	110	30-153	yes
	Ethylbenzene	103	73-127	yes
	Methylene chloride	102	63-137	yes
	Tetrachloroethene	100	66-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Toluene	102	77-122	yes
	trans-1,2-Dichloroethene	103	63-137	yes
	trans-1,3-Dichloropropene	95	59-135	yes
	Trichloroethene	103	70-127	yes
	Trichlorofluoromethane	110	57-129	yes
	Vinyl chloride	87	50-134	yes
	Xylenes, total	103	76-128	yes
S090717A	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	94	63-128	yes
	1,1,2-Trichloroethane	90	75-125	yes
	1,1-Dichloroethane	102	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	100	71-122	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	97	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Benzene	99	81-122	yes
	Bromodichloromethane	98	76-121	yes
	Bromoform	97	69-128	yes
	Bromomethane	93	30-141	yes
	Carbon tetrachloride	98	66-138	yes
	Chlorobenzene	98	81-122	yes
	Chloroethane	104	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	101	56-131	yes
	cis-1,2-Dichloroethene	103	72-126	yes
	cis-1,3-Dichloropropene	99	69-131	yes
	Dibromochloromethane	92	66-133	yes
	Dichlorodifluoromethane	116	30-153	yes
	Ethylbenzene	100	73-127	yes
	Methylene chloride	101	63-137	yes
	Tetrachloroethene	102	66-128	yes
	Toluene	99	77-122	yes
	trans-1,2-Dichloroethene	104	63-137	yes
	trans-1,3-Dichloropropene	96	59-135	yes
	Trichloroethene	99	70-127	yes
	Trichlorofluoromethane	105	57-129	yes
	Vinyl chloride	93	50-134	yes
	Xylenes, total	101	76-128	yes
S090717B	1,1,1-Trichloroethane	100	67-132	yes
	1,1,2,2-Tetrachloroethane	100	63-128	yes
	1,1,2-Trichloroethane	93	75-125	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	96	68-130	yes
	1,2-Dichlorobenzene	94	71-122	yes
	1,2-Dichloroethane	95	69-132	yes
	1,2-Dichloropropane	89	75-125	yes
	1,3-Dichlorobenzene	89	75-124	yes
	1,4-Dichlorobenzene	89	74-123	yes
	Benzene	91	81-122	yes
S090717B	Bromodichloromethane	96	76-121	yes
(continued)	Bromoform	103	69-128	yes
	Bromomethane	88	30-141	yes
	Carbon tetrachloride	94	66-138	yes
	Chlorobenzene	91	81-122	yes
	Chloroethane	92	58-133	yes
	Chloroform	94	69-128	yes
	Chloromethane	91	56-131	yes
	cis-1,2-Dichloroethene	91	72-126	yes
	cis-1,3-Dichloropropene	91	69-131	yes
	Dibromochloromethane	95	66-133	yes
	Dichlorodifluoromethane	115	30-153	yes
	Ethylbenzene	94	73-127	yes
	Methylene chloride	96	63-137	yes
	Tetrachloroethene	94	66-128	yes
	Toluene	93	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	91	59-135	yes
	Trichloroethene	91	70-127	yes
	Trichlorofluoromethane	106	57-129	yes
	Vinyl chloride	83	50-134	yes
	Xylenes, total	94	76-128	yes
S090720B	1,1,1-Trichloroethane	95	67-132	yes
	1,1,2,2-Tetrachloroethane	104	63-128	yes
	1,1,2-Trichloroethane	92	75-125	yes
	1,1-Dichloroethane	92	69-133	yes
	1,1-Dichloroethene	88	68-130	yes
	1,2-Dichlorobenzene	99	71-122	yes
	1,2-Dichloroethane	93	69-132	yes
	1,2-Dichloropropane	93	75-125	yes
	1,3-Dichlorobenzene	94	75-124	yes
	1,4-Dichlorobenzene	94	74-123	yes
	Benzene	92	81-122	yes
	Bromodichloromethane	97	76-121	yes
	Bromoform	96	69-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromomethane	96	30-141	yes
	Carbon tetrachloride	90	66-138	yes
	Chlorobenzene	91	81-122	yes
	Chloroethane	95	58-133	yes
	Chloroform	94	69-128	yes
	Chloromethane	96	56-131	yes
	cis-1,2-Dichloroethene	99	72-126	yes
	cis-1,3-Dichloropropene	93	69-131	yes
	Dibromochloromethane	92	66-133	yes
S090720B	Dichlorodifluoromethane	117	30-153	yes
(continued)	Ethylbenzene	92	73-127	yes
	Methylene chloride	104	63-137	yes
	Tetrachloroethene	88	66-128	yes
	Toluene	94	77-122	yes
	trans-1,2-Dichloroethene	92	63-137	yes
	trans-1,3-Dichloropropene	98	59-135	yes
	Trichloroethene	92	70-127	yes
	Trichlorofluoromethane	108	57-129	yes
	Vinyl chloride	85	50-134	yes
	Xylenes, total	90	76-128	yes
S090729A	1,1-Dichloroethene	104	68-130	yes
	1,2-Dichloroethane	102	69-132	yes
	1,2-Dichloropropane	97	75-125	yes
	1,4-Dichlorobenzene	94	74-123	yes
	Carbon tetrachloride	104	66-138	yes
	Chloroform	99	69-128	yes
	Chloromethane	97	56-131	yes
	cis-1,2-Dichloroethene	95	72-126	yes
	Tetrachloroethene	104	66-128	yes
	Trichloroethene	106	70-127	yes
	Vinyl chloride	115	50-134	yes
S090811A	1,1,1-Trichloroethane	98	67-132	yes
	1,1,2,2-Tetrachloroethane	101	63-128	yes
	1,1,2-Trichloroethane	103	75-125	yes
	1,1-Dichloroethane	107	69-133	yes
	1,1-Dichloroethene	104	68-130	yes
	1,2-Dichlorobenzene	106	71-122	yes
	1,2-Dichloroethane	103	69-132	yes
	1,2-Dichloropropane	100	75-125	yes
	1,3-Dichlorobenzene	103	75-124	yes
	1,4-Dichlorobenzene	105	74-123	yes
	Benzene	100	81-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromodichloromethane	102	76-121	yes
	Bromoform	114	69-128	yes
	Bromomethane	98	30-141	yes
	Carbon tetrachloride	101	66-138	yes
	Chlorobenzene	103	81-122	yes
	Chloroethane	105	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	89	56-131	yes
	cis-1,2-Dichloroethene	102	72-126	yes
	cis-1,3-Dichloropropene	99	69-131	yes
S090811A	Dibromochloromethane	111	66-133	yes
(continued)	Dichlorodifluoromethane	105	30-153	yes
	Ethylbenzene	105	73-127	yes
	Methylene chloride	97	63-137	yes
	Tetrachloroethene	109	66-128	yes
	Toluene	100	77-122	yes
	trans-1,2-Dichloroethene	97	63-137	yes
	trans-1,3-Dichloropropene	101	59-135	yes
	Trichloroethene	104	70-127	yes
	Trichlorofluoromethane	102	57-129	yes
	Vinyl chloride	117	50-134	yes
	Xylenes, total	106	76-128	yes
S090821A	1,1,1-Trichloroethane	102	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	97	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	103	68-130	yes
	1,2-Dichlorobenzene	98	71-122	yes
	1,2-Dichloroethane	97	69-132	yes
	1,2-Dichloropropane	95	75-125	yes
	1,3-Dichlorobenzene	102	75-124	yes
	1,4-Dichlorobenzene	103	74-123	yes
	Benzene	99	81-122	yes
	Bromodichloromethane	92	76-121	yes
	Bromoform	88	69-128	yes
	Bromomethane	97	30-141	yes
	Carbon tetrachloride	107	66-138	yes
	Chlorobenzene	102	81-122	yes
	Chloroethane	103	58-133	yes
	Chloroform	104	69-128	yes
	Chloromethane	99	56-131	yes
	cis-1,2-Dichloroethene	95	72-126	yes
	cis-1,3-Dichloropropene	99	69-131	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Dibromochloromethane	96	66-133	yes
	Dichlorodifluoromethane	105	30-153	yes
	Ethylbenzene	102	73-127	yes
	Methylene chloride	110	63-137	yes
	Tetrachloroethene	100	66-128	yes
	Toluene	101	77-122	yes
	trans-1,2-Dichloroethene	111	63-137	yes
	trans-1,3-Dichloropropene	97	59-135	yes
	Trichloroethene	102	70-127	yes
	Trichlorofluoromethane	112	57-129	yes
	Vinyl chloride	113	50-134	yes
S090821A (continued)	Xylenes, total	100	76-128	yes
S090904A	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	98	63-128	yes
	1,1,2-Trichloroethane	97	75-125	yes
	1,1-Dichloroethane	107	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	94	71-122	yes
	1,2-Dichloroethane	94	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	93	74-123	yes
	Benzene	101	81-122	yes
	Bromodichloromethane	96	76-121	yes
	Bromoform	91	69-128	yes
	Bromomethane	105	30-141	yes
	Carbon tetrachloride	96	66-138	yes
	Chlorobenzene	103	81-122	yes
	Chloroethane	107	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	98	56-131	yes
	cis-1,2-Dichloroethene	100	72-126	yes
	cis-1,3-Dichloropropene	101	69-131	yes
	Dibromochloromethane	98	66-133	yes
	Dichlorodifluoromethane	103	30-153	yes
	Ethylbenzene	98	73-127	yes
	Methylene chloride	100	63-137	yes
	Tetrachloroethene	98	66-128	yes
	Toluene	102	77-122	yes
	trans-1,2-Dichloroethene	97	63-137	yes
	trans-1,3-Dichloropropene	98	59-135	yes
	Trichloroethene	97	70-127	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Trichlorofluoromethane	96	57-129	yes
	Vinyl chloride	106	50-134	yes
	Xylenes, total	104	76-128	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
C091001A	1,1,1,2-Tetrachloroethane	88	80-120	yes
	1,1,1-Trichloroethane	105	80-120	yes
	1,1,2,2-Tetrachloroethane	100	80-120	yes
	1,1,2-Trichloroethane	96	80-120	yes
	1,1-Dichloroethane	102	80-120	yes
	1,1-Dichloroethene	97	80-120	yes
	1,1-Dichloropropene	104	80-120	yes
	1,2,3-Trichlorobenzene	100	80-120	yes
	1,2,3-Trichloropropane	92	80-120	yes
	1,2,4-Trichlorobenzene	94	80-120	yes
	1,2,4-Trimethylbenzene	93	80-120	yes
	1,2-Dibromo-3-chloropropane	99	80-120	yes
	1,2-Dibromoethane	95	80-120	yes
	1,2-Dichlorobenzene	97	80-120	yes
	1,2-Dichloroethane	97	80-120	yes
	1,2-Dichloropropane	96	80-120	yes
	1,3,5-Trimethylbenzene	99	80-120	yes
	1,3-Dichlorobenzene	97	80-120	yes
	1,3-Dichloropropane	94	80-120	yes
	1,4-Dichlorobenzene	98	80-120	yes
	2,2-Dichloropropane	115	80-120	yes
	2-Chlorotoluene	100	80-120	yes
	4-Chlorotoluene	101	80-120	yes
	Benzene	96	80-120	yes
	Bromobenzene	90	80-120	yes
	Bromochloromethane	96	80-120	yes
	Bromodichloromethane	91	80-120	yes
	Bromoform	95	80-120	yes
	Bromomethane	117	80-120	yes
	Carbon tetrachloride	105	80-120	yes
	Chlorobenzene	97	80-120	yes
	Chloroethane	98	80-120	yes
	Chloroform	100	80-120	yes
	Chloromethane	107	80-120	yes
	cis-1,2-Dichloroethene	99	80-120	yes
	cis-1,3-Dichloropropene	100	80-120	yes
	Dibromochloromethane	96	80-120	yes
	Dibromomethane	89	80-120	yes
	Dichlorodifluoromethane	106	80-120	yes
	Ethylbenzene	98	80-120	yes
	Hexachlorobutadiene	94	80-120	yes
	Isopropylbenzene	93	80-120	yes
	Methylene chloride	106	80-120	yes
	n-Butylbenzene	101	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	n-Propylbenzene	100	80-120	yes
C091001A	Naphthalene	103	80-120	yes
(continued)	p-Isopropyltoluene	99	80-120	yes
	sec-Butylbenzene	101	80-120	yes
	Styrene	100	80-120	yes
	t-Butylbenzene	94	80-120	yes
	Tetrachloroethene	102	80-120	yes
	Toluene	98	80-120	yes
	trans-1,2-Dichloroethene	108	80-120	yes
	trans-1,3-Dichloropropene	96	80-120	yes
	Trichloroethene	89	80-120	yes
	Trichlorofluoromethane	105	80-120	yes
	Vinyl chloride	104	80-120	yes
	Xylenes, total	99	80-120	yes
M090720A	1,1,1,2-Tetrachloroethane	104	80-120	yes
	1,1,1-Trichloroethane	106	80-120	yes
	1,1,2,2-Tetrachloroethane	97	80-120	yes
	1,1,2-Trichloroethane	100	80-120	yes
	1,1-Dichloroethane	103	80-120	yes
	1,1-Dichloroethene	100	80-120	yes
	1,1-Dichloropropene	99	80-120	yes
	1,2,3-Trichlorobenzene	98	80-120	yes
	1,2,3-Trichloropropane	96	80-120	yes
	1,2,4-Trichlorobenzene	102	80-120	yes
	1,2,4-Trimethylbenzene	103	80-120	yes
	1,2-Dibromo-3-chloropropane	93	80-120	yes
	1,2-Dibromoethane	101	80-120	yes
	1,2-Dichlorobenzene	100	80-120	yes
	1,2-Dichloroethane	100	80-120	yes
	1,2-Dichloropropane	100	80-120	yes
	1,3,5-Trimethylbenzene	104	80-120	yes
	1,3-Dichlorobenzene	100	80-120	yes
	1,3-Dichloropropane	100	80-120	yes
	1,4-Dichlorobenzene	101	80-120	yes
	2,2-Dichloropropane	81	80-120	yes
	2-Chlorotoluene	102	80-120	yes
	4-Chlorotoluene	102	80-120	yes
	Benzene	98	80-120	yes
	Bromobenzene	98	80-120	yes
	Bromochloromethane	90	80-120	yes
	Bromodichloromethane	102	80-120	yes
	Bromoform	105	80-120	yes
	Bromomethane	105	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Carbon tetrachloride	112	80-120	yes
	Chlorobenzene	99	80-120	yes
M090720A	Chloroethane	110	80-120	yes
(continued)	Chloroform	102	80-120	yes
	Chloromethane	97	80-120	yes
	cis-1,2-Dichloroethene	97	80-120	yes
	cis-1,3-Dichloropropene	99	80-120	yes
	Dibromochloromethane	107	80-120	yes
	Dibromomethane	99	80-120	yes
	Dichlorodifluoromethane	120	80-120	yes
	Ethylbenzene	102	80-120	yes
	Hexachlorobutadiene	96	80-120	yes
	Isopropylbenzene	103	80-120	yes
	Methylene chloride	98	80-120	yes
	n-Butylbenzene	103	80-120	yes
	n-Propylbenzene	103	80-120	yes
	Naphthalene	102	80-120	yes
	p-Isopropyltoluene	103	80-120	yes
	sec-Butylbenzene	105	80-120	yes
	Styrene	107	80-120	yes
	t-Butylbenzene	106	80-120	yes
	Tetrachloroethene	94	80-120	yes
	Toluene	100	80-120	yes
	trans-1,2-Dichloroethene	99	80-120	yes
	trans-1,3-Dichloropropene	103	80-120	yes
	Trichloroethene	106	80-120	yes
	Trichlorofluoromethane	111	80-120	yes
	Vinyl chloride	117	80-120	yes
	Xylenes, total	103	80-120	yes
M090721B	1,1,1,2-Tetrachloroethane	103	80-120	yes
	1,1,1-Trichloroethane	101	80-120	yes
	1,1,2,2-Tetrachloroethane	109	80-120	yes
	1,1,2-Trichloroethane	98	80-120	yes
	1,1-Dichloroethane	100	80-120	yes
	1,1-Dichloroethene	97	80-120	yes
	1,1-Dichloropropene	98	80-120	yes
	1,2,3-Trichlorobenzene	97	80-120	yes
	1,2,3-Trichloropropane	96	80-120	yes
	1,2,4-Trichlorobenzene	98	80-120	yes
	1,2,4-Trimethylbenzene	101	80-120	yes
	1,2-Dibromo-3-chloropropane	94	80-120	yes
	1,2-Dibromoethane	96	80-120	yes
	1,2-Dichlorobenzene	97	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichloroethane	95	80-120	yes
	1,2-Dichloropropane	97	80-120	yes
	1,3,5-Trimethylbenzene	102	80-120	yes
M090721B	1,3-Dichlorobenzene	98	80-120	yes
(continued)	1,3-Dichloropropane	97	80-120	yes
	1,4-Dichlorobenzene	98	80-120	yes
	2,2-Dichloropropane	114	80-120	yes
	2-Chlorotoluene	99	80-120	yes
	4-Chlorotoluene	100	80-120	yes
	Benzene	97	80-120	yes
	Bromobenzene	94	80-120	yes
	Bromochloromethane	88	80-120	yes
	Bromodichloromethane	99	80-120	yes
	Bromoform	97	80-120	yes
	Bromomethane	107	80-120	yes
	Carbon tetrachloride	107	80-120	yes
	Chlorobenzene	96	80-120	yes
	Chloroethane	80	80-120	yes
	Chloroform	99	80-120	yes
	Chloromethane	100	80-120	yes
	cis-1,2-Dichloroethene	99	80-120	yes
	cis-1,3-Dichloropropene	103	80-120	yes
	Dibromochloromethane	102	80-120	yes
	Dibromomethane	96	80-120	yes
	Dichlorodifluoromethane	118	80-120	yes
	Ethylbenzene	100	80-120	yes
	Hexachlorobutadiene	100	80-120	yes
	Isopropylbenzene	101	80-120	yes
	Methylene chloride	92	80-120	yes
	n-Butylbenzene	103	80-120	yes
	n-Propylbenzene	102	80-120	yes
	Naphthalene	97	80-120	yes
	p-Isopropyltoluene	103	80-120	yes
	sec-Butylbenzene	105	80-120	yes
	Styrene	103	80-120	yes
	t-Butylbenzene	103	80-120	yes
	Tetrachloroethene	92	80-120	yes
	Toluene	97	80-120	yes
	trans-1,2-Dichloroethene	94	80-120	yes
	trans-1,3-Dichloropropene	104	80-120	yes
	Trichloroethene	89	80-120	yes
	Trichlorofluoromethane	111	80-120	yes
	Vinyl chloride	115	80-120	yes
	Xylenes, total	100	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
M090807A	1,1,1,2-Tetrachloroethane	105	80-120	yes
	1,1,1-Trichloroethane	110	80-120	yes
	1,1,2,2-Tetrachloroethane	95	80-120	yes
M090807A	1,1,2-Trichloroethane	99	80-120	yes
(continued)	1,1-Dichloroethane	103	80-120	yes
	1,1-Dichloroethene	107	80-120	yes
	1,1-Dichloropropene	108	80-120	yes
	1,2,3-Trichlorobenzene	96	80-120	yes
	1,2,3-Trichloropropane	93	80-120	yes
	1,2,4-Trichlorobenzene	98	80-120	yes
	1,2,4-Trimethylbenzene	104	80-120	yes
	1,2-Dibromo-3-chloropropane	83	80-120	yes
	1,2-Dibromoethane	100	80-120	yes
	1,2-Dichlorobenzene	100	80-120	yes
	1,2-Dichloroethane	102	80-120	yes
	1,2-Dichloropropane	101	80-120	yes
	1,3,5-Trimethylbenzene	106	80-120	yes
	1,3-Dichlorobenzene	102	80-120	yes
	1,3-Dichloropropane	99	80-120	yes
	1,4-Dichlorobenzene	102	80-120	yes
	2,2-Dichloropropane	111	80-120	yes
	2-Chlorotoluene	103	80-120	yes
	4-Chlorotoluene	104	80-120	yes
	Benzene	102	80-120	yes
	Bromobenzene	99	80-120	yes
	Bromochloromethane	94	80-120	yes
	Bromodichloromethane	104	80-120	yes
	Bromoform	100	80-120	yes
	Bromomethane	85	80-120	yes
	Carbon tetrachloride	111	80-120	yes
	Chlorobenzene	102	80-120	yes
	Chloroethane	115	80-120	yes
	Chloroform	106	80-120	yes
	Chloromethane	91	80-120	yes
	cis-1,2-Dichloroethene	105	80-120	yes
	cis-1,3-Dichloropropene	104	80-120	yes
	Dibromochloromethane	102	80-120	yes
	Dibromomethane	100	80-120	yes
	Dichlorodifluoromethane	107	80-120	yes
	Ethylbenzene	103	80-120	yes
	Hexachlorobutadiene	102	80-120	yes
	Isopropylbenzene	105	80-120	yes
	Methylene chloride	113	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	n-Butylbenzene	104	80-120	yes
	n-Propylbenzene	105	80-120	yes
	Naphthalene	91	80-120	yes
	p-Isopropyltoluene	105	80-120	yes
	sec-Butylbenzene	105	80-120	yes
M090807A	Styrene	105	80-120	yes
(continued)	t-Butylbenzene	106	80-120	yes
	Tetrachloroethene	103	80-120	yes
	Toluene	103	80-120	yes
	trans-1,2-Dichloroethene	105	80-120	yes
	trans-1,3-Dichloropropene	95	80-120	yes
	Trichloroethene	107	80-120	yes
	Trichlorofluoromethane	107	80-120	yes
	Vinyl chloride	103	80-120	yes
	Xylenes, total	106	80-120	yes
M090812A	1,1,1,2-Tetrachloroethane	106	80-120	yes
	1,1,1-Trichloroethane	105	80-120	yes
	1,1,2,2-Tetrachloroethane	100	80-120	yes
	1,1,2-Trichloroethane	100	80-120	yes
	1,1-Dichloroethane	97	80-120	yes
	1,1-Dichloroethene	92	80-120	yes
	1,1-Dichloropropene	97	80-120	yes
	1,2,3-Trichlorobenzene	99	80-120	yes
	1,2,3-Trichloropropane	99	80-120	yes
	1,2,4-Trichlorobenzene	100	80-120	yes
	1,2,4-Trimethylbenzene	102	80-120	yes
	1,2-Dibromo-3-chloropropane	88	80-120	yes
	1,2-Dibromoethane	99	80-120	yes
	1,2-Dichlorobenzene	101	80-120	yes
	1,2-Dichloroethane	102	80-120	yes
	1,2-Dichloropropane	97	80-120	yes
	1,3,5-Trimethylbenzene	104	80-120	yes
	1,3-Dichlorobenzene	102	80-120	yes
	1,3-Dichloropropane	99	80-120	yes
	1,4-Dichlorobenzene	102	80-120	yes
	2,2-Dichloropropane	107	80-120	yes
	2-Chlorotoluene	101	80-120	yes
	4-Chlorotoluene	102	80-120	yes
	Benzene	94	80-120	yes
	Bromobenzene	99	80-120	yes
	Bromochloromethane	89	80-120	yes
	Bromodichloromethane	102	80-120	yes
	Bromoform	103	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromomethane	90	80-120	yes
	Carbon tetrachloride	108	80-120	yes
	Chlorobenzene	98	80-120	yes
	Chloroethane	86	80-120	yes
	Chloroform	103	80-120	yes
	Chloromethane	97	80-120	yes
M090812A	cis-1,2-Dichloroethene	97	80-120	yes
(continued)	cis-1,3-Dichloropropene	99	80-120	yes
	Dibromochloromethane	106	80-120	yes
	Dibromomethane	102	80-120	yes
	Dichlorodifluoromethane	118	80-120	yes
	Ethylbenzene	100	80-120	yes
	Hexachlorobutadiene	103	80-120	yes
	Isopropylbenzene	101	80-120	yes
	Methylene chloride	94	80-120	yes
	n-Butylbenzene	101	80-120	yes
	n-Propylbenzene	103	80-120	yes
	Naphthalene	98	80-120	yes
	p-Isopropyltoluene	103	80-120	yes
	sec-Butylbenzene	102	80-120	yes
	Styrene	100	80-120	yes
	t-Butylbenzene	104	80-120	yes
	Tetrachloroethene	98	80-120	yes
	Toluene	97	80-120	yes
	trans-1,2-Dichloroethene	91	80-120	yes
	trans-1,3-Dichloropropene	99	80-120	yes
	Trichloroethene	102	80-120	yes
	Trichlorofluoromethane	116	80-120	yes
	Vinyl chloride	102	80-120	yes
	Xylenes, total	99	80-120	yes
M090826A	1,1,1,2-Tetrachloroethane	96	80-120	yes
	1,1,1-Trichloroethane	103	80-120	yes
	1,1,2,2-Tetrachloroethane	86	80-120	yes
	1,1,2-Trichloroethane	93	80-120	yes
	1,1-Dichloroethane	96	80-120	yes
	1,1-Dichloroethene	100	80-120	yes
	1,1-Dichloropropene	98	80-120	yes
	1,2,3-Trichlorobenzene	90	80-120	yes
	1,2,3-Trichloropropane	90	80-120	yes
	1,2,4-Trichlorobenzene	90	80-120	yes
	1,2,4-Trimethylbenzene	98	80-120	yes
	1,2-Dibromo-3-chloropropane	93	80-120	yes
	1,2-Dibromoethane	95	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichlorobenzene	96	80-120	yes
	1,2-Dichloroethane	92	80-120	yes
	1,2-Dichloropropane	96	80-120	yes
	1,3,5-Trimethylbenzene	99	80-120	yes
	1,3-Dichlorobenzene	95	80-120	yes
	1,3-Dichloropropane	93	80-120	yes
	1,4-Dichlorobenzene	94	80-120	yes
M090826A	2,2-Dichloropropane	84	80-120	yes
(continued)	2-Chlorotoluene	98	80-120	yes
	4-Chlorotoluene	96	80-120	yes
	Benzene	96	80-120	yes
	Bromobenzene	93	80-120	yes
	Bromochloromethane	91	80-120	yes
	Bromodichloromethane	102	80-120	yes
	Bromoform	100	80-120	yes
	Bromomethane	114	80-120	yes
	Carbon tetrachloride	103	80-120	yes
	Chlorobenzene	95	80-120	yes
	Chloroethane	92	80-120	yes
	Chloroform	96	80-120	yes
	Chloromethane	85	80-120	yes
	cis-1,2-Dichloroethene	96	80-120	yes
	cis-1,3-Dichloropropene	95	80-120	yes
	Dibromochloromethane	102	80-120	yes
	Dibromomethane	99	80-120	yes
	Dichlorodifluoromethane	117	80-120	yes
	Ethylbenzene	97	80-120	yes
	Hexachlorobutadiene	91	80-120	yes
	Isopropylbenzene	98	80-120	yes
	Methylene chloride	96	80-120	yes
	n-Butylbenzene	92	80-120	yes
	n-Propylbenzene	97	80-120	yes
	Naphthalene	90	80-120	yes
	p-Isopropyltoluene	99	80-120	yes
	sec-Butylbenzene	96	80-120	yes
	Styrene	100	80-120	yes
	t-Butylbenzene	97	80-120	yes
	Tetrachloroethene	91	80-120	yes
	Toluene	95	80-120	yes
	trans-1,2-Dichloroethene	99	80-120	yes
	trans-1,3-Dichloropropene	95	80-120	yes
	Trichloroethene	100	80-120	yes
	Trichlorofluoromethane	114	80-120	yes
	Vinyl chloride	85	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Xylenes, total	97	80-120	yes
N090730A	1,1,1,2-Tetrachloroethane	96	80-120	yes
	1,1,1-Trichloroethane	104	80-120	yes
	1,1,2,2-Tetrachloroethane	97	80-120	yes
	1,1,2-Trichloroethane	88	80-120	yes
	1,1-Dichloroethane	101	80-120	yes
	1,1-Dichloroethene	96	80-120	yes
N090730A	1,1-Dichloropropene	95	80-120	yes
(continued)	1,2,3-Trichlorobenzene	87	80-120	yes
	1,2,3-Trichloropropane	89	80-120	yes
	1,2,4-Trichlorobenzene	90	80-120	yes
	1,2,4-Trimethylbenzene	103	80-120	yes
	1,2-Dibromo-3-chloropropane	81	80-120	yes
	1,2-Dibromoethane	92	80-120	yes
	1,2-Dichlorobenzene	90	80-120	yes
	1,2-Dichloroethane	93	80-120	yes
	1,2-Dichloropropane	95	80-120	yes
	1,3,5-Trimethylbenzene	105	80-120	yes
	1,3-Dichlorobenzene	96	80-120	yes
	1,3-Dichloropropane	95	80-120	yes
	1,4-Dichlorobenzene	93	80-120	yes
	2,2-Dichloropropane	103	80-120	yes
	2-Chlorotoluene	100	80-120	yes
	4-Chlorotoluene	101	80-120	yes
	Benzene	97	80-120	yes
	Bromobenzene	97	80-120	yes
	Bromochloromethane	89	80-120	yes
	Bromodichloromethane	97	80-120	yes
	Bromoform	94	80-120	yes
	Bromomethane	90	80-120	yes
	Carbon tetrachloride	87	80-120	yes
	Chlorobenzene	97	80-120	yes
	Chloroethane	95	80-120	yes
	Chloroform	97	80-120	yes
	Chloromethane	92	80-120	yes
	cis-1,2-Dichloroethene	96	80-120	yes
	cis-1,3-Dichloropropene	99	80-120	yes
	Dibromochloromethane	94	80-120	yes
	Dibromomethane	90	80-120	yes
	Dichlorodifluoromethane	120	80-120	yes
	Ethylbenzene	99	80-120	yes
	Hexachlorobutadiene	104	80-120	yes
	Isopropylbenzene	102	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Methylene chloride	103	80-120	yes
	n-Butylbenzene	108	80-120	yes
	n-Propylbenzene	107	80-120	yes
	Naphthalene	81	80-120	yes
	p-Isopropyltoluene	105	80-120	yes
	sec-Butylbenzene	104	80-120	yes
	Styrene	107	80-120	yes
	t-Butylbenzene	93	80-120	yes
	Tetrachloroethene	93	80-120	yes
N090730A	Toluene	100	80-120	yes
(continued)	trans-1,2-Dichloroethene	98	80-120	yes
	trans-1,3-Dichloropropene	94	80-120	yes
	Trichloroethene	94	80-120	yes
	Trichlorofluoromethane	111	80-120	yes
	Vinyl chloride	95	80-120	yes
	Xylenes, total	104	80-120	yes
N090730B	1,1,1,2-Tetrachloroethane	109	80-120	yes
	1,1,1-Trichloroethane	105	80-120	yes
	1,1,2,2-Tetrachloroethane	109	80-120	yes
	1,1,2-Trichloroethane	109	80-120	yes
	1,1-Dichloroethane	101	80-120	yes
	1,1-Dichloroethene	98	80-120	yes
	1,1-Dichloropropene	97	80-120	yes
	1,2,3-Trichlorobenzene	103	80-120	yes
	1,2,3-Trichloropropane	110	80-120	yes
	1,2,4-Trichlorobenzene	101	80-120	yes
	1,2,4-Trimethylbenzene	116	80-120	yes
	1,2-Dibromo-3-chloropropane	107	80-120	yes
	1,2-Dibromoethane	107	80-120	yes
	1,2-Dichlorobenzene	105	80-120	yes
	1,2-Dichloroethane	106	80-120	yes
	1,2-Dichloropropane	106	80-120	yes
	1,3,5-Trimethylbenzene	119	80-120	yes
	1,3-Dichlorobenzene	106	80-120	yes
	1,3-Dichloropropane	112	80-120	yes
	1,4-Dichlorobenzene	104	80-120	yes
	2,2-Dichloropropane	97	80-120	yes
	2-Chlorotoluene	115	80-120	yes
	4-Chlorotoluene	110	80-120	yes
	Benzene	104	80-120	yes
	Bromobenzene	108	80-120	yes
	Bromochloromethane	101	80-120	yes
	Bromodichloromethane	109	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 11)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromoform	110	80-120	yes
	Bromomethane	91	80-120	yes
	Carbon tetrachloride	109	80-120	yes
	Chlorobenzene	106	80-120	yes
	Chloroethane	105	80-120	yes
	Chloroform	102	80-120	yes
	Chloromethane	103	80-120	yes
	cis-1,2-Dichloroethene	98	80-120	yes
	cis-1,3-Dichloropropene	109	80-120	yes
	Dibromochloromethane	111	80-120	yes
N090730B	Dibromomethane	107	80-120	yes
(continued)	Dichlorodifluoromethane	94	80-120	yes
	Ethylbenzene	114	80-120	yes
	Hexachlorobutadiene	108	80-120	yes
	Isopropylbenzene	115	80-120	yes
	Methylene chloride	112	80-120	yes
	n-Butylbenzene	114	80-120	yes
	n-Propylbenzene	113	80-120	yes
	Naphthalene	111	80-120	yes
	p-Isopropyltoluene	113	80-120	yes
	sec-Butylbenzene	113	80-120	yes
	Styrene	116	80-120	yes
	t-Butylbenzene	101	80-120	yes
	Tetrachloroethene	101	80-120	yes
	Toluene	107	80-120	yes
	trans-1,2-Dichloroethene	99	80-120	yes
	trans-1,3-Dichloropropene	111	80-120	yes
	Trichloroethene	115	80-120	yes
	Trichlorofluoromethane	110	80-120	yes
	Vinyl chloride	87	80-120	yes
	Xylenes, total	116	80-120	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.3

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H090720A	TPH, gasoline-range	110	67-136	yes
H090724A	TPH, gasoline-range	107	67-136	yes
H090728A	TPH, gasoline-range	91	67-136	yes
H090812A	TPH, gasoline-range	91	67-136	yes
H090902A	TPH, gasoline-range	102	67-136	yes
H090909A	TPH, gasoline-range	89	67-136	yes
H090928A	TPH, gasoline-range	98	67-136	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.4

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
A090720A	TPH, diesel-range	62	61-143	yes
A090727A	TPH, diesel-range	95	61-143	yes
A090730A	TPH, diesel-range	69	61-143	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.5

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 6010			
P090715A	Antimony	104	80-120	yes
	Arsenic	102	80-120	yes
	Barium	110	80-120	yes
	Beryllium	105	80-120	yes
	Cadmium	111	80-120	yes
	Chromium	110	80-120	yes
	Cobalt	112	80-120	yes
	Copper	107	80-120	yes
	Lead	110	80-120	yes
	Manganese	108	80-120	yes
	Nickel	110	80-120	yes
	Selenium	106	80-120	yes
	Silver	103	80-120	yes
	Vanadium	111	80-120	yes
	Zinc	109	80-120	yes
P090716A	Chromium	100	80-120	yes
	Nickel	96	80-120	yes
P090719A	Antimony	91	80-120	yes
	Arsenic	92	80-120	yes
	Barium	96	80-120	yes
	Beryllium	90	80-120	yes
	Cadmium	93	80-120	yes
	Chromium	98	80-120	yes
	Cobalt	96	80-120	yes
	Copper	93	80-120	yes
	Lead	95	80-120	yes
	Manganese	92	80-120	yes
	Nickel	94	80-120	yes
	Selenium	88	80-120	yes
	Silver	87	80-120	yes
	Vanadium	99	80-120	yes
	Zinc	97	80-120	yes
P090728A	Antimony	106	80-120	yes
	Arsenic	106	80-120	yes
	Barium	110	80-120	yes
	Beryllium	107	80-120	yes
	Cadmium	106	80-120	yes
	Calcium	104	80-120	yes
	Chromium	112	80-120	yes
	Cobalt	109	80-120	yes

TABLE 5-2.5

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Copper	107	80-120	yes
P090728A	Iron	109	80-120	yes
(continued)	Lead	110	80-120	yes
	Magnesium	105	80-120	yes
	Manganese	107	80-120	yes
	Nickel	109	80-120	yes
	Selenium	95	80-120	yes
	Silver	101	80-120	yes
	Sodium	104	80-120	yes
	Vanadium	113	80-120	yes
	Zinc	110	80-120	yes
	USEPA 6020			
O090717A	Thallium	91	80-120	yes
O090719A	Thallium	95	80-120	yes
O090729A	Thallium	95	80-120	yes
	USEPA 7470			
F090715A	Mercury	90	85-115	yes
F090719A	Mercury	88	85-115	yes
F090729A	Mercury	105	85-115	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.6

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	SM 2320			
T090715A	Total Alkalinity	104	80-120	yes
T090722A	Total Alkalinity	104	80-120	yes
T090728A	Total Alkalinity	104	80-120	yes
	USEPA 130.2			
B090804A	Hardness as CaCO3	100	80-120	yes
	USEPA 160.1			
M090716B	Total Filterable Residue	106	80-120	yes
M090721A	Total Filterable Residue	93	80-120	yes
M090721B	Total Filterable Residue	95	80-120	yes
M090729B	Total Filterable Residue	96	80-120	yes
M090729C	Total Filterable Residue	97	80-120	yes
M090729E	Total Filterable Residue	97	80-120	yes
	USEPA 300.0			
D090714A	Chloride	94	85-115	yes
	Sulfate	97	85-115	yes
D090716A	Chloride	95	85-115	yes
	Sulfate	96	85-115	yes
D090717A	Chloride	95	85-115	yes
	Sulfate	96	85-115	yes
D090724A	Chloride	94	85-115	yes
	Nitrate (as N)	96	85-115	yes
	Sulfate	96	85-115	yes
	USEPA 314.0			
D090805B	Perchlorate	89	80-120	yes
	USEPA 340.2			
M090731A	Fluoride	97	86-114	yes
M090803A	Fluoride	102	86-114	yes

TABLE 5-2.6

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 376.1			
090714A	Sulfide, total	95	80-120	yes
090716A	Sulfide, total	99	80-120	yes
090717A	Sulfide, total	90	80-120	yes
	USEPA 7196			
M090714A	Hexavalent Chromium	103	86-117	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-07/23/09	1,1,1-Trichloroethane	93	90	67-132	yes	3.2	20	yes
	1,1,2,2-Tetrachloroethane	108	106	63-128	yes	1.9	20	yes
	1,1,2-Trichloroethane	96	99	75-125	yes	3.2	20	yes
	1,1-Dichloroethane	95	96	69-133	yes	1.7	20	yes
	1,1-Dichloroethene	86	94	68-130	yes	9.0	20	yes
	1,2-Dichlorobenzene	79	82	71-122	yes	4.4	20	yes
	1,2-Dichloroethane	103	110	69-132	yes	6.6	20	yes
	1,2-Dichloropropane	101	111	75-125	yes	9.4	20	yes
	1,3-Dichlorobenzene	82	84	75-124	yes	3.3	20	yes
	1,4-Dichlorobenzene	80	85	74-123	yes	6.3	20	yes
	Benzene	94	97	81-122	yes	2.7	20	yes
	Bromodichloromethane	98	99	76-121	yes	0.9	20	yes
	Bromoform	101	84	69-128	yes	19.0	20	yes
	Bromomethane	64	68	30-141	yes	4.9	20	yes
	Carbon tetrachloride	89	94	66-138	yes	5.3	20	yes
	Chlorobenzene	92	89	81-122	yes	3.5	20	yes
	Chloroethane	64	62	58-133	yes	1.9	20	yes
	Chloroform	95	100	69-128	yes	4.6	20	yes
	Chloromethane	69	74	56-131	yes	7.4	20	yes
	cis-1,2-Dichloroethene	85	88	72-126	yes	3.5	20	yes
	cis-1,3-Dichloropropene	100	99	69-131	yes	1.3	20	yes
	Dibromochloromethane	108	102	66-133	yes	5.7	20	yes
	Dichlorodifluoromethane	70	75	30-153	yes	6.9	20	yes
	Ethylbenzene	89	87	73-127	yes	2.1	20	yes
	Methylene chloride	104	98	63-137	yes	5.6	20	yes
	Tetrachloroethene	78	77	66-128	yes	1.3	20	yes
	Toluene	93	95	77-122	yes	1.8	20	yes
	trans-1,2-Dichloroethene	88	98	63-137	yes	10.7	20	yes
	trans-1,3-Dichloropropene	101	100	59-135	yes	1.0	20	yes
7-PTI-07/23/09 (continued)	Trichloroethene	36	37	70-127	no	2.7	20	yes
	Trichlorofluoromethane	72	78	57-129	yes	7.2	20	yes
	Vinyl chloride	71	77	50-134	yes	7.4	20	yes
	Xylenes, total	91	88	76-128	yes	3.0	20	yes

Mather AR # 2970.1 Page 638 of 1088

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PZ-37P	1,1,1-Trichloroethane	94	90	67-132	yes	3.9	20	yes
	1,1,2,2-Tetrachloroethane	93	90	63-128	yes	2.5	20	yes
	1,1,2-Trichloroethane	87	85	75-125	yes	3.0	20	yes
	1,1-Dichloroethane	91	88	69-133	yes	3.2	20	yes
	1,1-Dichloroethene	94	88	68-130	yes	6.7	20	yes
	1,2-Dichlorobenzene	90	89	71-122	yes	2.0	20	yes
	1,2-Dichloroethane	90	91	69-132	yes	0.8	20	yes
	1,2-Dichloropropane	89	85	75-125	yes	4.5	20	yes
	1,3-Dichlorobenzene	87	85	75-124	yes	3.3	20	yes
	1,4-Dichlorobenzene	89	85	74-123	yes	5.3	20	yes
	Benzene	92	88	81-122	yes	4.1	20	yes
	Bromodichloromethane	92	87	76-121	yes	5.9	20	yes
	Bromoform	94	84	69-128	yes	12.1	20	yes
	Bromomethane	86	82	30-141	yes	4.8	20	yes
	Carbon tetrachloride	97	88	66-138	yes	10.2	20	yes
	Chlorobenzene	94	88	81-122	yes	7.3	20	yes
	Chloroethane	100	93	58-133	yes	7.1	20	yes
	Chloroform	90	91	69-128	yes	1.0	20	yes
	Chloromethane	97	89	56-131	yes	8.5	20	yes
	cis-1,2-Dichloroethene	99	93	72-126	yes	6.4	20	yes
	cis-1,3-Dichloropropene	87	85	69-131	yes	1.9	20	yes
	Dibromochloromethane	86	84	66-133	yes	2.9	20	yes
	Dichlorodifluoromethane	110	99	30-153	yes	10.6	20	yes
	Ethylbenzene	94	87	73-127	yes	8.6	20	yes
7-PZ-37P	Methylene chloride	101	105	63-137	yes	3.9	20	yes
(continued)	Tetrachloroethene	85	74	66-128	yes	13.8	20	yes
	Toluene	91	88	77-122	yes	3.4	20	yes
	trans-1,2-Dichloroethene	95	89	63-137	yes	6.4	20	yes
	trans-1,3-Dichloropropene	90	89	59-135	yes	1.6	20	yes
	Trichloroethene	87	78	70-127	yes	10.9	20	yes
	Trichlorofluoromethane	104	87	57-129	yes	17.4	20	yes
	Vinyl chloride	79	81	50-134	yes	2.8	20	yes
	Xylenes, total	93	86	76-128	yes	7.8	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
ACW PTI-07/23/09	1,1,1-Trichloroethane	91	101	67-132	yes	10.6	20	yes
	1,1,2,2-Tetrachloroethane	101	107	63-128	yes	5.8	20	yes
	1,1,2-Trichloroethane	100	101	75-125	yes	1.0	20	yes
	1,1-Dichloroethane	87	93	69-133	yes	6.0	20	yes
	1,1-Dichloroethene	80	91	68-130	yes	12.8	20	yes
	1,2-Dichlorobenzene	84	84	71-122	yes	0.0	20	yes
	1,2-Dichloroethane	98	99	69-132	yes	1.3	20	yes
	1,2-Dichloropropane	100	104	75-125	yes	3.9	20	yes
	1,3-Dichlorobenzene	90	94	75-124	yes	3.7	20	yes
	1,4-Dichlorobenzene	87	87	74-123	yes	0.0	20	yes
	Benzene	90	97	81-122	yes	7.7	20	yes
	Bromodichloromethane	98	106	76-121	yes	7.7	20	yes
	Bromoform	93	82	69-128	yes	12.4	20	yes
	Bromomethane	70	74	30-141	yes	5.3	20	yes
	Carbon tetrachloride	94	100	66-138	yes	5.6	20	yes
	Chlorobenzene	93	90	81-122	yes	3.0	20	yes
	Chloroethane	64	73	58-133	yes	13.8	20	yes
	Chloroform	93	102	69-128	yes	9.6	20	yes
	Chloromethane	79	84	56-131	yes	6.9	20	yes
ACW PTI-07/23/09 (continued)	cis-1,2-Dichloroethene	85	94	72-126	yes	10.4	20	yes
	cis-1,3-Dichloropropene	93	101	69-131	yes	8.1	20	yes
	Dibromochloromethane	103	102	66-133	yes	1.0	20	yes
	Dichlorodifluoromethane	74	88	30-153	yes	17.3	20	yes
	Ethylbenzene	93	92	73-127	yes	1.3	20	yes
	Methylene chloride	130	128	63-137	yes	1.6	20	yes
	Tetrachloroethene	84	77	66-128	yes	9.2	20	yes
	Toluene	91	99	77-122	yes	8.0	20	yes
	trans-1,2-Dichloroethene	90	94	63-137	yes	5.0	20	yes
	trans-1,3-Dichloropropene	96	104	59-135	yes	8.2	20	yes
	Trichloroethene	58	74	70-127	no	24.2*	20	no
	Trichlorofluoromethane	77	87	57-129	yes	11.2	20	yes
	Vinyl chloride	79	83	50-134	yes	5.6	20	yes
	Xylenes, total	92	94	76-128	yes	1.8	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-133	1,1-Dichloroethene	99	101	68-130	yes	1.7	20	yes
	1,2-Dichloroethane	100	104	69-132	yes	3.9	20	yes
	1,2-Dichloropropane	95	96	75-125	yes	1.5	20	yes
	1,4-Dichlorobenzene	88	96	74-123	yes	8.5	20	yes
	Carbon tetrachloride	106	102	66-138	yes	3.9	20	yes
	Chloroform	98	99	69-128	yes	1.3	20	yes
	Chloromethane	89	85	56-131	yes	5.1	20	yes
	cis-1,2-Dichloroethene	105	100	72-126	yes	4.9	20	yes
	Tetrachloroethene	82	78	66-128	yes	5.0	20	yes
	Trichloroethene	102	98	70-127	yes	4.3	20	yes
	Vinyl chloride	73	84	50-134	yes	14.8	20	yes
MAFB-378D	1,1-Dichloroethene	97	95	68-130	yes	2.5	20	yes
	1,2-Dichloroethane	95	97	69-132	yes	2.5	20	yes
MAFB-378D	1,2-Dichloropropane	92	92	75-125	yes	0.2	20	yes
(continued)	1,4-Dichlorobenzene	90	89	74-123	yes	1.0	20	yes
	Carbon tetrachloride	99	104	66-138	yes	5.0	20	yes
	Chloroform	96	95	69-128	yes	1.7	20	yes
	Chloromethane	87	90	56-131	yes	3.4	20	yes
	cis-1,2-Dichloroethene	94	95	72-126	yes	0.7	20	yes
	Tetrachloroethene	90	94	66-128	yes	4.7	20	yes
	Trichloroethene	89	90	70-127	yes	1.5	20	yes
	Vinyl chloride	75	82	50-134	yes	9.3	20	yes
MAFB-439	1,1,1-Trichloroethane	101	102	67-132	yes	1.0	20	yes
	1,1,2,2-Tetrachloroethane	95	98	63-128	yes	3.0	20	yes
	1,1,2-Trichloroethane	92	94	75-125	yes	1.8	20	yes
	1,1-Dichloroethane	98	100	69-133	yes	2.1	20	yes
	1,1-Dichloroethene	98	101	68-130	yes	3.4	20	yes
	1,2-Dichlorobenzene	91	93	71-122	yes	2.9	20	yes
	1,2-Dichloroethane	98	98	69-132	yes	0.1	20	yes
	1,2-Dichloropropane	97	96	75-125	yes	1.6	20	yes
	1,3-Dichlorobenzene	88	91	75-124	yes	3.4	20	yes
	1,4-Dichlorobenzene	88	90	74-123	yes	3.2	20	yes
	Benzene	93	96	81-122	yes	3.6	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Bromodichloromethane	97	100	76-121	yes	3.6	20	yes
	Bromoform	100	97	69-128	yes	2.8	20	yes
	Bromomethane	87	94	30-141	yes	7.3	20	yes
	Carbon tetrachloride	79	80	66-138	yes	1.3	20	yes
	Chlorobenzene	95	92	81-122	yes	3.5	20	yes
	Chloroethane	97	90	58-133	yes	7.5	20	yes
	Chloroform	101	102	69-128	yes	1.0	20	yes
	Chloromethane	91	89	56-131	yes	3.0	20	yes
MAFB-439	cis-1,2-Dichloroethene	94	101	72-126	yes	7.5	20	yes
(continued)	cis-1,3-Dichloropropene	91	96	69-131	yes	5.3	20	yes
	Dibromochloromethane	97	96	66-133	yes	0.2	20	yes
	Dichlorodifluoromethane	106	104	30-153	yes	1.9	20	yes
	Ethylbenzene	96	94	73-127	yes	2.0	20	yes
	Methylene chloride	111	118	63-137	yes	6.1	20	yes
	Tetrachloroethene	-14	-20	66-128	no	-35.3	20	yes
	Toluene	95	96	77-122	yes	0.7	20	yes
	trans-1,2-Dichloroethene	98	96	63-137	yes	2.1	20	yes
	trans-1,3-Dichloropropene	95	97	59-135	yes	1.7	20	yes
	Trichloroethene	96	97	70-127	yes	1.6	20	yes
	Trichlorofluoromethane	97	100	57-129	yes	2.6	20	yes
	Vinyl chloride	79	85	50-134	yes	7.4	20	yes
	Xylenes, total	95	92	76-128	yes	3.5	20	yes
MBS PTI-07/23/09	1,1,1-Trichloroethane	100	98	67-132	yes	1.7	20	yes
	1,1,2,2-Tetrachloroethane	114	107	63-128	yes	6.3	20	yes
	1,1,2-Trichloroethane	101	96	75-125	yes	4.8	20	yes
	1,1-Dichloroethane	94	93	69-133	yes	1.1	20	yes
	1,1-Dichloroethene	99	97	68-130	yes	1.7	20	yes
	1,2-Dichlorobenzene	93	85	71-122	yes	8.6	20	yes
	1,2-Dichloroethane	100	96	69-132	yes	3.8	20	yes
	1,2-Dichloropropane	108	105	75-125	yes	2.8	20	yes
	1,3-Dichlorobenzene	100	93	75-124	yes	7.3	20	yes
	1,4-Dichlorobenzene	95	87	74-123	yes	8.8	20	yes
	Benzene	102	97	81-122	yes	5.5	20	yes
	Bromodichloromethane	107	104	76-121	yes	2.8	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Bromoform	98	96	69-128	yes	2.0	20	yes
	Bromomethane	73	75	30-141	yes	3.0	20	yes
MBS PTI-07/23/09	Carbon tetrachloride	109	103	66-138	yes	5.7	20	yes
(continued)	Chlorobenzene	96	91	81-122	yes	5.6	20	yes
	Chloroethane	72	71	58-133	yes	2.5	20	yes
	Chloroform	100	96	69-128	yes	3.7	20	yes
	Chloromethane	85	81	56-131	yes	5.1	20	yes
	cis-1,2-Dichloroethene	95	93	72-126	yes	2.8	20	yes
	cis-1,3-Dichloropropene	104	98	69-131	yes	6.3	20	yes
	Dibromochloromethane	97	101	66-133	yes	4.6	20	yes
	Dichlorodifluoromethane	90	80	30-153	yes	11.1	20	yes
	Ethylbenzene	94	92	73-127	yes	2.5	20	yes
	Methylene chloride	113	109	63-137	yes	3.6	20	yes
	Tetrachloroethene	84	78	66-128	yes	7.4	20	yes
	Toluene	100	97	77-122	yes	2.8	20	yes
	trans-1,2-Dichloroethene	103	95	63-137	yes	8.6	20	yes
	trans-1,3-Dichloropropene	97	100	59-135	yes	2.8	20	yes
	Trichloroethene	75	74	70-127	yes	1.3	20	yes
	Trichlorofluoromethane	94	82	57-129	yes	12.7	20	yes
	Vinyl chloride	86	82	50-134	yes	5.4	20	yes
	Xylenes, total	96	90	76-128	yes	6.8	20	yes

Notes:

RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Due to limitations with the current Electronic Data Deliverable (EDD) format, RPDs in this table are calculated using MS/MSD percent recoveries, rather than actual observed values. RPDs marked with an "*" differ from the actual observed RPD and should not be used for validation purposes.

Mather AR # 2970.1 Page 643 of 1088

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-324	1,1,1,2-Tetrachloroethane	104	94	80-120	yes	10.6	20	yes
	1,1,1-Trichloroethane	104	90	80-120	yes	14.4	20	yes
	1,1,2,2-Tetrachloroethane	111	101	80-120	yes	9.4	20	yes
	1,1,2-Trichloroethane	101	91	80-120	yes	10.5	20	yes
	1,1-Dichloroethane	102	89	80-120	yes	14.0	20	yes
	1,1-Dichloroethene	97	85	80-120	yes	13.6	20	yes
	1,1-Dichloropropene	98	84	80-120	yes	15.2	20	yes
	1,2,3-Trichlorobenzene	99	87	80-120	yes	13.2	20	yes
	1,2,3-Trichloropropane	101	90	80-120	yes	11.2	20	yes
	1,2,4-Trichlorobenzene	98	88	80-120	yes	11.3	20	yes
	1,2,4-Trimethylbenzene	102	90	80-120	yes	12.6	20	yes
	1,2-Dibromo-3-chloropropane	98	90	80-120	yes	8.7	20	yes
	1,2-Dibromoethane	99	92	80-120	yes	7.9	20	yes
	1,2-Dichlorobenzene	99	88	80-120	yes	11.7	20	yes
	1,2-Dichloroethane	97	91	80-120	yes	7.2	20	yes
	1,2-Dichloropropane	99	88	80-120	yes	11.8	20	yes
	1,3,5-Trimethylbenzene	105	90	80-120	yes	15.5	20	yes
	1,3-Dichlorobenzene	100	89	80-120	yes	12.1	20	yes
	1,3-Dichloropropane	99	90	80-120	yes	9.3	20	yes
	1,4-Dichlorobenzene	100	89	80-120	yes	11.9	20	yes
	2,2-Dichloropropane	76	60	80-120	no	24.1	20	no
	2-Chlorotoluene	102	88	80-120	yes	15.1	20	yes
	4-Chlorotoluene	102	89	80-120	yes	13.6	20	yes
	Benzene	99	86	80-120	yes	14.9	20	yes
	Bromobenzene	97	86	80-120	yes	11.6	20	yes
	Bromochloromethane	92	81	80-120	yes	13.1	20	yes
	Bromodichloromethane	102	93	80-120	yes	9.1	20	yes
	Bromoform	102	94	80-120	yes	7.7	20	yes
	Bromomethane	89	95	80-120	yes	6.3	20	yes
MAFB-324 (continued)	Carbon tetrachloride	111	95	80-120	yes	15.5	20	yes
	Chlorobenzene	102	87	80-120	yes	16.1	20	yes
	Chloroethane	104	85	80-120	yes	20.5	20	no
	Chloroform	109	94	80-120	yes	15.0	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Chloromethane	98	79	80-120	no	21.7	20	no
	cis-1,2-Dichloroethene	96	86	80-120	yes	11.7	20	yes
	cis-1,3-Dichloropropene	96	85	80-120	yes	12.9	20	yes
	Dibromochloromethane	105	95	80-120	yes	9.6	20	yes
	Dibromomethane	98	87	80-120	yes	11.5	20	yes
	Dichlorodifluoromethane	102	83	80-120	yes	20.8	20	no
	Ethylbenzene	101	87	80-120	yes	14.7	20	yes
	Hexachlorobutadiene	94	81	80-120	yes	15.7	20	yes
	Isopropylbenzene	102	89	80-120	yes	14.2	20	yes
	Methylene chloride	98	83	80-120	yes	16.0	20	yes
	n-Butylbenzene	100	87	80-120	yes	14.0	20	yes
	n-Propylbenzene	103	89	80-120	yes	14.4	20	yes
	Naphthalene	100	91	80-120	yes	8.5	20	yes
	p-Isopropyltoluene	102	89	80-120	yes	13.2	20	yes
	sec-Butylbenzene	105	91	80-120	yes	14.0	20	yes
	Styrene	103	89	80-120	yes	14.6	20	yes
	t-Butylbenzene	105	93	80-120	yes	12.4	20	yes
	Tetrachloroethene	90	77	80-120	no	15.8	20	yes
	Toluene	100	86	80-120	yes	14.5	20	yes
	trans-1,2-Dichloroethene	95	85	80-120	yes	10.1	20	yes
	trans-1,3-Dichloropropene	89	85	80-120	yes	4.8	20	yes
	Trichloroethene	93	79	80-120	no	16.5	20	yes
	Trichlorofluoromethane	103	86	80-120	yes	17.9	20	yes
	Vinyl chloride	108	92	80-120	yes	16.2	20	yes
	Xylenes, total	103	89	80-120	yes	14.9	20	yes
OFB-27	1,1,1,2-Tetrachloroethane	102	104	80-120	yes	1.9	20	yes
	1,1,1-Trichloroethane	111	109	80-120	yes	1.8	20	yes
	1,1,2,2-Tetrachloroethane	111	106	80-120	yes	4.6	20	yes
	1,1,2-Trichloroethane	111	106	80-120	yes	4.6	20	yes
	1,1-Dichloroethane	108	100	80-120	yes	8.0	20	yes
	1,1-Dichloroethene	112	102	80-120	yes	9.4	20	yes
	1,1-Dichloropropene	102	100	80-120	yes	2.1	20	yes
	1,2,3-Trichlorobenzene	53	98	80-120	no	59.5	20	no

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,2,3-Trichloropropane	112	109	80-120	yes	2.7	20	yes
	1,2,4-Trichlorobenzene	98	93	80-120	yes	4.3	20	yes
	1,2,4-Trimethylbenzene	115	112	80-120	yes	2.6	20	yes
	1,2-Dibromo-3-chloropropane	100	96	80-120	yes	4.0	20	yes
	1,2-Dibromoethane	110	101	80-120	yes	8.5	20	yes
	1,2-Dichlorobenzene	100	100	80-120	yes	0.0	20	yes
	1,2-Dichloroethane	106	99	80-120	yes	6.4	20	yes
	1,2-Dichloropropane	107	100	80-120	yes	6.8	20	yes
	1,3,5-Trimethylbenzene	118	115	80-120	yes	2.6	20	yes
	1,3-Dichlorobenzene	102	99	80-120	yes	3.5	20	yes
	1,3-Dichloropropane	112	105	80-120	yes	6.5	20	yes
	1,4-Dichlorobenzene	103	100	80-120	yes	3.0	20	yes
	2,2-Dichloropropane	115	97	80-120	yes	16.9	20	yes
	2-Chlorotoluene	113	112	80-120	yes	0.9	20	yes
	4-Chlorotoluene	109	110	80-120	yes	0.9	20	yes
	Benzene	104	99	80-120	yes	5.4	20	yes
	Bromobenzene	106	98	80-120	yes	7.4	20	yes
	Bromochloromethane	107	98	80-120	yes	8.9	20	yes
	Bromodichloromethane	111	106	80-120	yes	4.6	20	yes
	Bromoform	111	107	80-120	yes	3.7	20	yes
	Bromomethane	80	83	80-120	yes	3.3	20	yes
OFB-27	Carbon tetrachloride	114	105	80-120	yes	8.2	20	yes
(continued)	Chlorobenzene	106	102	80-120	yes	3.9	20	yes
	Chloroethane	104	103	80-120	yes	1.0	20	yes
	Chloroform	105	98	80-120	yes	7.3	20	yes
	Chloromethane	95	102	80-120	yes	7.1	20	yes
	cis-1,2-Dichloroethene	106	97	80-120	yes	8.8	20	yes
	cis-1,3-Dichloropropene	110	107	80-120	yes	2.8	20	yes
	Dibromochloromethane	110	106	80-120	yes	3.7	20	yes
	Dibromomethane	108	100	80-120	yes	7.7	20	yes
	Dichlorodifluoromethane	115	119	80-120	yes	3.4	20	yes
	Ethylbenzene	110	107	80-120	yes	2.8	20	yes
	Hexachlorobutadiene	108	107	80-120	yes	0.9	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Isopropylbenzene	111	104	80-120	yes	6.5	20	yes
	Methylene chloride	121	110	80-120	no	9.5	20	yes
	n-Butylbenzene	116	115	80-120	yes	0.9	20	yes
	n-Propylbenzene	114	107	80-120	yes	6.3	20	yes
	Naphthalene	104	103	80-120	yes	1.0	20	yes
	p-Isopropyltoluene	115	114	80-120	yes	0.9	20	yes
	sec-Butylbenzene	116	110	80-120	yes	5.3	20	yes
	Styrene	115	112	80-120	yes	2.6	20	yes
	t-Butylbenzene	107	101	80-120	yes	5.8	20	yes
	Tetrachloroethene	98	96	80-120	yes	2.0	20	yes
	Toluene	112	107	80-120	yes	4.6	20	yes
	trans-1,2-Dichloroethene	108	99	80-120	yes	9.1	20	yes
	trans-1,3-Dichloropropene	107	104	80-120	yes	2.8	20	yes
	Trichloroethene	94	91	80-120	yes	2.4	20	yes
	Trichlorofluoromethane	113	117	80-120	yes	3.5	20	yes
	Vinyl chloride	96	96	80-120	yes	0.1	20	yes
	Xylenes, total	113	110	80-120	yes	2.7	20	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Mather AR # 2970.1 Page 647 of 1088

TABLE 5-3.3

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-07/23/09	TPH, gasoline-range	99	90	67-136	yes	9.8	30	yes
7-PZ-37P	TPH, gasoline-range	106	107	67-136	yes	0.9	30	yes
MBS PTI-07/23/09	TPH, gasoline-range	84	83	67-136	yes	1.6	30	yes

Notes:
RPD - Relative Percent Difference

TABLE 5-3.4

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCRABONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-07/23/09	TPH, diesel-range	91	72	61-143	yes	23.6	30	yes
7-PZ-37P	TPH, diesel-range	68	75	61-143	yes	9.1	30	yes
ACW PTE-07/23/09	TPH, diesel-range	98	118	61-143	yes	18.1	30	yes
MBS PTI-07/23/09	TPH, diesel-range	166	121	61-143	no	31.4	30	no

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

TABLE 5-3.5

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	USEPA 6010							
7-PTI-07/23/09	Calcium	104	102	80-120	yes	1.9	20	yes
	Copper	106	104	80-120	yes	1.9	20	yes
	Iron	109	107	80-120	yes	1.9	20	yes
	Magnesium	106	105	80-120	yes	1.0	20	yes
	Manganese	107	106	80-120	yes	0.9	20	yes
	Sodium	106	105	80-120	yes	1.0	20	yes
	Zinc	111	110	80-120	yes	0.9	20	yes
7-PZ-37P	Lead	101	95	80-120	yes	6.3	20	yes
	Manganese	-4	-76	80-120	no	-180.0*	20	no
ACW PTI-07/23/09	Calcium	107	107	80-120	yes	0.0	20	yes
	Copper	109	110	80-120	yes	0.9	20	yes
	Iron	109	111	80-120	yes	1.8	20	yes
	Magnesium	109	109	80-120	yes	0.0	20	yes
	Manganese	107	109	80-120	yes	1.9	20	yes
	Sodium	109	109	80-120	yes	0.0	20	yes
	Zinc	111	113	80-120	yes	1.8	20	yes
MAFB-133	Antimony	112	109	80-120	yes	2.7	20	yes
	Arsenic	114	110	80-120	yes	3.6	20	yes
	Barium	113	112	80-120	yes	0.9	20	yes
	Beryllium	110	107	80-120	yes	2.8	20	yes
	Cadmium	111	111	80-120	yes	0.0	20	yes
	Chromium	114	113	80-120	yes	0.9	20	yes
	Cobalt	110	110	80-120	yes	0.0	20	yes
	Copper	110	108	80-120	yes	1.8	20	yes
	Lead	112	108	80-120	yes	3.6	20	yes
MAFB-133	Manganese	111	107	80-120	yes	3.7	20	yes
(continued)	Nickel	109	107	80-120	yes	1.9	20	yes
	Selenium	106	104	80-120	yes	1.9	20	yes
	Silver	104	102	80-120	yes	1.9	20	yes
	Vanadium	116	114	80-120	yes	1.7	20	yes
	Zinc	113	112	80-120	yes	0.9	20	yes
MBS PTI-07/23/09	Antimony	108	108	80-120	yes	0.0	20	yes
	Arsenic	107	107	80-120	yes	0.0	20	yes

TABLE 5-3.5

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Barium	109	108	80-120	yes	0.9	20	yes
	Beryllium	110	109	80-120	yes	0.9	20	yes
	Cadmium	103	103	80-120	yes	0.0	20	yes
	Chromium	111	111	80-120	yes	0.0	20	yes
	Cobalt	106	106	80-120	yes	0.0	20	yes
	Copper	106	107	80-120	yes	0.9	20	yes
	Lead	108	108	80-120	yes	0.0	20	yes
	Manganese	106	107	80-120	yes	0.9	20	yes
	Nickel	106	106	80-120	yes	0.0	20	yes
	Selenium	95	94	80-120	yes	0.9	20	yes
	Silver	101	101	80-120	yes	0.0	20	yes
	Vanadium	112	113	80-120	yes	0.9	20	yes
	Zinc	109	110	80-120	yes	0.9	20	yes
	USEPA 6020							
MAFB-133	Thallium	94	96	80-120	yes	2.1	25	yes
MBS PTI-07/23/09	Thallium	98	95	80-120	yes	2.9	25	yes
	USEPA 7470							
MAFB-133	Mercury	100	95	85-115	yes	5.1	15	yes
MBS PTI-07/23/09	Mercury	100	100	85-115	yes	0.0	15	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Due to limitations with the current Electronic Data Deliverable (EDD) format, RPDs in this table are calculated using MS/MSD percent recoveries, rather than actual observed values. RPDs marked with an "*" differ from the actual observed RPD and should not be used for validation purposes.

Mather AR # 2970.1 Page 651 of 1088

TABLE 5-3.6

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	SM 2320							
7-PTI-07/23/09	Total Alkalinity	101	101	80-120	yes	0.0	20	yes
ACW PTI-07/23/09	Total Alkalinity	106	108	80-120	yes	1.9	20	yes
MAFB-133	Total Alkalinity	102	101	80-120	yes	1.0	20	yes
MBS PTI-07/23/09	Total Alkalinity	104	104	80-120	yes	0.0	20	yes
	USEPA 130.2							
7-PTI-07/23/09	Hardness as CaCO3	95	100	80-120	yes	5.1	20	yes
ACW PTI-07/23/09	Hardness as CaCO3	100	95	80-120	yes	4.9	20	yes
MBS PTI-07/23/09	Hardness as CaCO3	100	100	80-120	yes	0.0	20	yes
	USEPA 160.1							
7-PTI-07/23/09	Total Filterable Residue	96	100	80-120	yes	3.2	20	yes
ACW PTI-07/23/09	Total Filterable Residue	100	96	80-120	yes	3.7	20	yes
MAFB-133	Total Filterable Residue	92	99	80-120	yes	7.5	20	yes
MBS PTI-07/23/09	Total Filterable Residue	103	98	80-120	yes	4.8	20	yes
	USEPA 300.0							
7-PTI-07/23/09	Chloride	101	101	85-115	yes	0.0	20	yes
	Nitrate (as N)	100	100	85-115	yes	0.0	20	yes
	Sulfate	103	103	85-115	yes	0.0	20	yes
	USEPA 300.0 (continued)							
ACW PTI-07/23/09	Chloride	96	96	85-115	yes	0.4	20	yes
	Nitrate (as N)	102	102	85-115	yes	0.0	20	yes
	Sulfate	93	93	85-115	yes	0.0	20	yes

TABLE 5-3.6

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-133	Chloride	97	96	85-115	yes	0.4	20	yes
	Sulfate	97	97	85-115	yes	0.4	20	yes
MBS PTI-07/23/09	Chloride	101	102	85-115	yes	1.0	20	yes
	Nitrate (as N)	103	104	85-115	yes	1.0	20	yes
	Sulfate	98	99	85-115	yes	0.8	20	yes
	USEPA 314.0							
ACW PTE-07/23/09	Perchlorate	98	97	80-120	yes	1.1	15	yes
MBS PTE AF-07/23/09	Perchlorate	87	88	80-120	yes	1.1	15	yes
	USEPA 340.2							
MAFB-133	Fluoride	105	104	86-114	yes	1.0	20	yes
	USEPA 376.1							
MAFB-133	Sulfide, total	86	86	80-120	yes	0.8	20	yes
	USEPA 7196							
MAFB-424	Hexavalent Chromium	103	103	86-117	yes	0.0	15	yes

Notes:
RPD - Relative Percent Difference

Mather AR # 2970.1 Page 653 of 1088

TABLE 5-4

LABORATORY DUPLICATE SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Units	Sample Concentration	Laboratory Duplicate	Actual RPD (%)	Control Limits RPD (%)	Precision Acceptability
	USEPA 160.2						
MBS PTI-07/23/09	Total Suspended Solids	mg/L	< 10	< 10	0.0	20	yes

Notes:
mg/L - Milligrams per liter
RPD - Relative Percent Difference

Mather AR # 2970.1 Page 654 of 1088

6.0 CHAIN-OF-CUSTODY FORMS

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7977 5050 2263 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-ACW-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	7/9/2009	915	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	7/9/2009	1320
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7977 5050 2263 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	7/9/2009	829	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/9/2009	1320
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7977 5050 2263 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-ST7-1Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SM	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	7/9/2009	1004	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	7/9/2009	1004	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	7/9/2009	1045	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	7/9/2009	1045	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	7/9/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Simon Broughton

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome	Lead
7-PZ-37	7-PZ-37	0	0	7/13/2009	1130	N	1	B	WG	0	0	1	A	1	P	A														X
7-PZ-37	7-PZ-37	0	0	7/13/2009	1130	N	1	B	WG	0	0	1	A	2	A	NA				X										
7-PZ-37	7-PZ-37	0	0	7/13/2009	1130	N	1	B	WG	0	0	1	A	3	G	C			X											
7-PZ-37	7-PZ-37	0	0	7/13/2009	1130	N	1	B	WG	0	0	1	A	3	G	C	X													
7-PZ-37(P)	7-PZ-37P	0	0	7/13/2009	1003	N	1	BP	WG	0	0	1	A	3	G	C			X											
7-PZ-37(P)	7-PZ-37P	0	0	7/13/2009	1003	N	1	BP	WG	0	0	1	A	3	G	C	X													
7-PZ-37(P)	7-PZ-37P	0	0	7/13/2009	1003	N	1	BP	WG	0	0	1	A	1	P	A						X								

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	7/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brockhaus [signature]

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37(P)	7-PZ-37P	0	0	7/13/2009	1003	N	1	BP	WG	0	0	1	A	2	A	NA				X									
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	7/13/2009	1003	MS	1	BP	WG	0	0	1	A	3	G	C			X										
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	7/13/2009	1003	MS	1	BP	WG	0	0	1	A	4	A	NA				X									
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	7/13/2009	1003	MS	1	BP	WG	0	0	1	A	3	G	C	X												
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	7/13/2009	1003	MS	1	BP	WG	0	0	1	A	2	P	A						X							
MAFB-149	MAFB-149	0	0	7/13/2009	755	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-149	MAFB-149	0	0	7/13/2009	755	N	1	BP	WG	0	0	1	A	2	A	NA				X									

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	7/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Steve Brockman

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-149	MAFB-149	0	0	7/13/2009	755	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-284	MAFB-284	0	0	7/13/2009	922	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-284	MAFB-284	0	0	7/13/2009	922	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-284	MAFB-284	0	0	7/13/2009	922	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-413	MAFB-413	0	0	7/13/2009	842	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-413	MAFB-413	0	0	7/13/2009	842	N	1	BP	WG	0	0	1	A	1	P	A													
MAFB-413	MAFB-413	0	0	7/13/2009	842	N	1	BP	WG	0	0	1	A	2	A	NA				X									

(lead) X

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Foster	MWH	7/13/2009	1438
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A | B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Steven Brougham

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-413	MAFB-413	0	0	7/13/2009	842	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-424	MAFB-424	0	0	7/13/2009	1240	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-424	MAFB-424	0	0	7/13/2009	1240	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-424	MAFB-424	0	0	7/13/2009	1240	N	1	BP	WG	0	0	1	A	1	P	NA													X
MAFB-424	MAFB-424	0	0	7/13/2009	1240	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-424-MS/MSD	MAFB-424	0	0	7/13/2009	1240	MS	1	BP	WG	0	0	1	A	2	P	NA													X
MAFB-954	MAFB-954	0	0	7/13/2009	1020	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Foster	MWH	7/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shona Brougham

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-954	MAFB-954	0	0	7/13/2009	1020	N	1	BP	WG	0	0	1	A	1	P	A						X						
MAFB-954	MAFB-954	0	0	7/13/2009	1020	N	1	BP	WG	0	0	1	A	2	A	NA				X								
MAFB-954	MAFB-954	0	0	7/13/2009	1020	N	1	BP	WG	0	0	1	A	3	G	C			X									
MAFB-982	MAFB-982	0	0	7/13/2009	1300	N	1	BP	WG	0	0	1	A	1	P	NA												X

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	7/13/2009	1420
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 10A COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST73Q09 RF
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
MAFB-444DF	MAFB-444	0	0	7/13/2009	1044	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-445DF	MAFB-445	0	0	7/13/2009	1117	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-446DF	MAFB-446	0	0	7/13/2009	1024	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-447DF	MAFB-447	0	0	7/13/2009	1101	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-448DF	MAFB-448	0	0	7/13/2009	1202	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-908	MAFB-908	0	0	7/13/2009	1007	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-3Q09 RF
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-449(Bd)DF	MAFB-449Bd	0	0	7/13/2009	1003	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-449(Bs)DF	MAFB-449Bs	0	0	7/13/2009	954	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-457(Bd)DF	MAFB-457Bd	0	0	7/13/2009	844	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-457(Bs)DF	MAFB-457Bs	0	0	7/13/2009	831	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-458(Bd)DF	MAFB-458Bd	0	0	7/13/2009	919	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-458(Bs)DF	MAFB-458Bs	0	0	7/13/2009	909	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-900	MAFB-900	0	0	7/13/2009	810	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA	COOLER#: A/B	LOG CODE: MWWC	LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME:	MAFB-MBS3Q09 RE
AIR FORCE ID:	MAFB
PROJECT NUMBER:	1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-1	MBS-MW-1	0	0	7/13/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C				X								
MBS-MW-1	MBS-MW-1	0	0	7/13/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	7/13/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER
Shawn Braughmen

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-354(B)	MAFB-354B	0	0	7/14/2009	900	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-354(D)	MAFB-354D	0	0	7/14/2009	837	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-388(Ds)DF	MAFB-388Ds	0	0	7/14/2009	1015	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-438DF	MAFB-438	0	0	7/14/2009	1120	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-442DF	MAFB-442	0	0	7/14/2009	1115	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-443DF	MAFB-443	0	0	7/14/2009	954	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS-MW-13	MBS-MW-13	0	0	7/14/2009	1215	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/14/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
MAFB-453(C)DF	MAFB-453C	0	0	7/14/2009	1025	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-453DF	MAFB-453	0	0	7/14/2009	1015	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-454(C)DF	MAFB-454C	0	0	7/14/2009	1050	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-454DF	MAFB-454	0	0	7/14/2009	1040	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/14/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3. etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Brayshaw

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-111	MAFB-111	0	0	7/14/2009	848	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-129	MAFB-129	0	0	7/14/2009	756	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-288	MAFB-288	0	0	7/14/2009	821	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-400	MAFB-400	0	0	7/14/2009	934	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-935	MAFB-935	0	0	7/14/2009	950	N	1	BP	WG	0	0	1	A	1	P	A									X				

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	7/14/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 10A COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

RON FOSTER

PROJECT NAME: MAFB-OFB-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-271	MAFB-271	0	0	7/15/2009	1021	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-319DF	MAFB-319	0	0	7/15/2009	954	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-321DF	MAFB-321	0	0	7/15/2009	941	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-322	MAFB-322	0	0	7/15/2009	733	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-324	MAFB-324	0	0	7/15/2009	826	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-324-MS/MSD	MAFB-324	0	0	7/15/2009	826	MS	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-326	MAFB-326	0	0	7/15/2009	708	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		RON FOSTER	MWH	7/15/2009	1900
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-OFB-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-328DF	MAFB-328	0	0	7/15/2009	851	N	1	DF	WG	0	0	1	A	3	G	C				X									
MAFB-337	MAFB-337	0	0	7/15/2009	755	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-338DF	MAFB-338	0	0	7/15/2009	901	N	1	DF	WG	0	0	1	A	3	G	C				X									
MAFB-911	MAFB-911	0	0	7/15/2009	922	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-918	MAFB-918	0	0	7/15/2009	~~924~~ 923 Re	N	1	BP	WG	0	0	1	A	3	G	C				X									
OFB-MW-1	OFB-MW-1	0	0	7/15/2009	1245	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	7/15/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-378(B)DF	MAFB-378B	0	0	7/15/2009	1045	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(D)DF	MAFB-378D	0	0	7/15/2009	1050	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(D)DF-MS/MSD	MAFB-378D	0	0	7/15/2009	1050	MS	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-397DF	MAFB-397	0	0	7/15/2009	1100	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-934	MAFB-934	0	0	7/15/2009	1029	N	1	BP	WG	0	0	1	A	3	G	C		X											
MBS-MW-10	MBS-MW-10	0	0	7/15/2009	1215	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/15/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brockman

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-112	MAFB-112	0	0	7/15/2009	718	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-132L	MAFB-132	0	0	7/15/2009	835	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-132L	MAFB-132	0	0	7/15/2009	835	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-132L	MAFB-132	0	0	7/15/2009	835	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		RON FOSTER	MWH	7/15/2009	1900
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-1	LF-MW-1	0	0	7/16/2009	1220	N	1	BP	WG	0	0	1	A	3	G	C			X										
LF-MW-1	LF-MW-1	0	0	7/16/2009	1220	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-133L	MAFB-133	0	0	7/16/2009	708	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-133L	MAFB-133	0	0	7/16/2009	708	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-133L	MAFB-133	0	0	7/16/2009	708	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-133L-MS/MSD	MAFB-133	0	0	7/16/2009	708	MS	1	BP	WG	0	0	1	A	2	P	A					X								
MAFB-133L-MS/MSD	MAFB-133	0	0	7/16/2009	708	MS	1	BP	WG	0	0	1	A	2	P	NA							X						

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Foster	MWH	7/16/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-LF-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-133L-MS/MSD	MAFB-133	0	0	7/16/2009	708	MS	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-136L	MAFB-136	0	0	7/16/2009	801	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-136L	MAFB-136	0	0	7/16/2009	801	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-136L	MAFB-136	0	0	7/16/2009	801	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-948	MAFB-948	0	0	7/16/2009	643	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-948	MAFB-948	0	0	7/16/2009	643	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-948	MAFB-948	0	0	7/16/2009	643	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/16/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-439	MAFB-439	0	0	7/16/2009	1003	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-439	MAFB-439	0	0	7/16/2009	1003	N	1	BP	WG	0	0	1	A	2	A	NA					X							
MAFB-439	MAFB-439	0	0	7/16/2009	1003	N	1	BP	WG	0	0	1	A	1	P	A						X						
MAFB-439	MAFB-439	0	0	7/16/2009	1003	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-439-MS/MSD	MAFB-439	0	0	7/16/2009	1003	MS	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-964	MAFB-964	0	0	7/16/2009	851	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/16/2009	800
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Braghman

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PZ-05DF	ACW PZ-05	0	0	7/16/2009	1120	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-455DF	MAFB-455	0	0	7/16/2009	1110	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-456(C)DF	MAFB-456C	0	0	7/16/2009	1050	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-456DF	MAFB-456	0	0	7/16/2009	1100	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY ROSE	MWH	7/16/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

Sharon Braughman

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-293	MAFB-293	0	0	7/20/2009	858	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-318	MAFB-318	0	0	7/20/2009	818	N	1	BP	WG	0	0	1	A	3	G	C		X										
MAFB-426DF	MAFB-426	0	0	7/20/2009	825	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-435DF	MAFB-435	0	0	7/20/2009	923	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-450DF	MAFB-450	0	0	7/20/2009	900	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-459(D)DF	MAFB-459D	0	0	7/20/2009	810	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-459(Dd)DF	MAFB-459Dd	0	0	7/20/2009	755	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	7/20/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Sharon Broughman

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-3	MBS-MW-3	0	0	7/20/2009	1015	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/20/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 0A COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brueghman

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-441DF	MAFB-441	0	0	7/23/2009	805	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-451DF	MAFB-451	0	0	7/23/2009	820	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-452(B)DF	MAFB-452B	0	0	7/23/2009	830	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-452(Bu)DF	MAFB-452Bu	0	0	7/23/2009	840	N	1	DF	WG	0	0	1	A	3	G	C	X												
MBS AS	MBS AS	0	0	7/23/2009	1000	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS AS	MBS AS	0	0	7/23/2009	1000	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS AS	MBS AS	0	0	7/23/2009	1000	N	1	WF	WG	0	0	1	A	2	A	NA					X								

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Shawn Broughton

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS AS	MBS AS	0	0	7/23/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS AS	MBS AS	0	0	7/23/2009	1000	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS AS	MBS AS	0	0	7/23/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS EW-13Bu/B	MBS EW-13Bu	0	0	7/23/2009	1038	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTA	MBS PTA	0	0	7/23/2009	915	N	1	WF	WG	0	0	1	A	1	P	NA												X	
MBS PTE AF	MBS PTE AF	0	0	7/23/2009	900	N	1	WF	WG	0	0	1	A	2	A	NA					X								
MBS PTE AF	MBS PTE AF	0	0	7/23/2009	900	N	1	WF	WG	0	0	1	A	1	P	NA												X	

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 12A COOLER#: A B C D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Brockman

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	7/23/2009	900	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS PTE AF	MBS PTE AF	0	0	7/23/2009	900	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTE AF	MBS PTE AF	0	0	7/23/2009	900	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS PTE AF	MBS PTE AF	0	0	7/23/2009	900	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS PTE AF	MBS PTE AF	0	0	7/23/2009	900	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS PTE AF-MS/MSD	MBS PTE AF	0	0	7/23/2009	900	MS	1	WF	WG	0	0	1	A	2	P	NA												X	
MBS PTI	MBS PTI	0	0	7/23/2009	945	N	1	WF	WG	0	0	1	A	2	A	NA					X								

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Fosbrink	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broshears

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTI	MBS PTI	0	0	7/23/2009	945	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS PTI	MBS PTI	0	0	7/23/2009	945	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS PTI	MBS PTI	0	0	7/23/2009	945	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTI	MBS PTI	0	0	7/23/2009	945	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS PTI	MBS PTI	0	0	7/23/2009	945	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS PTI-MS/MSD	MBS PTI	0	0	7/23/2009	945	MS	1	WF	WG	0	0	1	A	2	P	NA													X
MBS PTI-MS/MSD	MBS PTI	0	0	7/23/2009	945	MS	1	WF	WG	0	0	1	A	2	P	NA							X						

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rir Foster	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: YA COOLER#: A B C D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTI-MS/MSD	MBS PTI	0	0	7/23/2009	945	MS	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTI-MS/MSD	MBS PTI	0	0	7/23/2009	945	MS	1	WF	WG	0	0	1	A	2	P	A									X				
MBS PTI-MS/MSD	MBS PTI	0	0	7/23/2009	945	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
MBS PTI-MS/MSD	MBS PTI	0	0	7/23/2009	945	MS	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW AS	ACW AS	0	0	7/23/2009	813	N	1	WF	WG	0	0	1	A	1	P	NA							X						
ACW AS	ACW AS	0	0	7/23/2009	813	N	1	WF	WG	0	0	1	A	1	P	A								X					
ACW AS	ACW AS	0	0	7/23/2009	813	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTD	ACW PTD	0	0	7/23/2009	736	N	1	WF	WG	0	0	1	A	1	P	NA													X
ACW PTD	ACW PTD	0	0	7/23/2009	736	N	1	WF	WG	0	0	1	A	2	A	NA					X								
ACW PTE	ACW PTE	0	0	7/23/2009	720	N	1	WF	WG	0	0	1	A	2	A	NA					X								
ACW PTE	ACW PTE	0	0	7/23/2009	720	N	1	WF	WG	0	0	1	A	1	P	NA							X						

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A|B|C|D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	7/23/2009	720	N	1	WF	WG	0	0	1	A	1	P	A								X					
ACW PTE	ACW PTE	0	0	7/23/2009	720	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTE	ACW PTE	0	0	7/23/2009	720	N	1	WF	WG	0	0	1	A	1	P	NA													X
ACW PTE-MS/MSD	ACW PTE	0	0	7/23/2009	720	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
ACW PTE-MS/MSD	ACW PTE	0	0	7/23/2009	720	MS	1	WF	WG	0	0	1	A	2	P	NA													X
ACW PTI	ACW PTI	0	0	7/23/2009	800	N	1	WF	WG	0	0	1	A	1	P	NA							X						
ACW PTI	ACW PTI	0	0	7/23/2009	800	N	1	WF	WG	0	0	1	A	1	P	A								X					

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate. sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A | B | C | D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTI	ACW PTI	0	0	7/23/2009	800	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTI-MS/MSD	ACW PTI	0	0	7/23/2009	800	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
ACW PTI-MS/MSD	ACW PTI	0	0	7/23/2009	800	MS	1	WF	WG	0	0	1	A	2	P	A								X					
ACW PTI-MS/MSD	ACW PTI	0	0	7/23/2009	800	MS	1	WF	WG	0	0	1	A	3	G	C	X												
ACW R2	ACW R2	0	0	7/23/2009	1010	N	1	B	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Roy Foster	Roy Foster	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B|C|D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-ST7-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST											
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-AS	7-AS	0	0	7/23/2009	941	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-AS	7-AS	0	0	7/23/2009	941	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-AS	7-AS	0	0	7/23/2009	941	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-AS	7-AS	0	0	7/23/2009	941	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-AS	7-AS	0	0	7/23/2009	941	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	7/23/2009	841	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-PTE	7-PTE	0	0	7/23/2009	841	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	7/23/2009	1250
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A | B | C | D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTE	7-PTE	0	0	7/23/2009	841	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTE	7-PTE	0	0	7/23/2009	841	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-PTE	7-PTE	0	0	7/23/2009	841	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-PTI	7-PTI	0	0	7/23/2009	923	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-PTI	7-PTI	0	0	7/23/2009	923	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-PTI	7-PTI	0	0	7/23/2009	923	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTI	7-PTI	0	0	7/23/2009	923	N	1	WF	WG	0	0	1	A	2	A	NA					X								

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Ron Foster

PROJECT NAME: MAFB-ST7-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTI	7-PTI	0	0	7/23/2009	923	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTI-MS/MSD	7-PTI	0	0	7/23/2009	923	MS	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTI-MS/MSD	7-PTI	0	0	7/23/2009	923	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
7-PTI-MS/MSD	7-PTI	0	0	7/23/2009	923	MS	1	WF	WG	0	0	1	A	2	P	A								X					
7-PTI-MS/MSD	7-PTI	0	0	7/23/2009	923	MS	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTI-MS/MSD	7-PTI	0	0	7/23/2009	923	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
7-PTT	7-PTT	0	0	7/23/2009	1200	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Ron Foster	MWH	7/23/2009	1238
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~NA~~ COOLER#: A/B/C/D LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTT	7-PTT	0	0	7/23/2009	1200	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/23/2009	1230
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 8638 6838 0044 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Braughman [signature]

PROJECT NAME: MAFB-OFB-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
Gould	OFB-31	0	0	7/28/2009	930	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Influent	OFB-51/52I	0	0	7/28/2009	738	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Mid-GAC	OFB-51/52M	0	0	7/28/2009	740	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH1	OFB-51	0	0	7/28/2009	850	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH2	OFB-52	0	0	7/28/2009	855	N	1	WF	WG	0	0	1	A	3	G	C				X									
MAFB-926	MAFB-926	0	0	7/28/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C				X									
MAFB-927	MAFB-927	0	0	7/28/2009	910	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	7/28/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 8638 6838 0044 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughton

PROJECT NAME: MAFB-OFB-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
Mars	OFB-27	0	0	7/28/2009	945	N	1	WF	WG	0	0	1	A	3	G	C				X									
Mars-MS/MSD	OFB-27	0	0	7/28/2009	945	MS	1	WF	WG	0	0	1	A	3	G	C				X									
Moonbeam Influent	OFB-04	0	0	7/28/2009	1040	N	1	WF	WG	0	0	1	A	3	G	C				X									
Moonbeam Mid-GAC	OFB-04M	0	0	7/28/2009	1045	N	1	WF	WG	0	0	1	A	3	G	C				X									
Nut Plains	OFB-32	0	0	7/28/2009	920	N	1	WF	WG	0	0	1	A	3	G	C				X									
Oaken Bucket	OFB-49	0	0	7/28/2009	1020	N	1	WF	WG	0	0	1	A	3	G	C				X									
OFB-MW-2	OFB-MW-2	0	0	7/28/2009	1210	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	7/28/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 8638 6838 0044 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brugsham [signature]

PROJECT NAME: MAFB-OFB-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
South Port	OFB-54	0	0	7/28/2009	1110	N	1	WF	WG	0	0	1	A	3	G	C				X									
Tallyho #2	OFB-56	0	0	7/28/2009	1125	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	7/28/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7968 3963 5498 COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	8/6/2009	0950	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	CTT	CHARLES T. THEURING JR	MWH	8/6/2009	1042
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7968 3963 5998 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	8/6/2009	0905	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	CHARLES T. THEURING	CHARLES T. THEURING JR	MWH	8/6/2009	1041
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7968 3963 5498 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

VENKATA GANESH NAGISETT G

PROJECT NAME: MAFB-OFB-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST											
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (short)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2	LF Metals	Sulfide	LF Gen Min	Perchlorate
JH Effluent	OFB-51/52E	0	0	8/6/2009	9:20	N	1	WF	WG	0	0	1	A	3	G	C				X								
JH Mid-GAC	OFB-51/52M	0	0	8/6/2009	9:10	N	1	WF	WG	0	0	1	A	3	G	C				X								
OFB-MW-1	OFB-MW-1	0	0	8/6/2009	13:50	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
~~JH Mid-Gac and Moonbeam Mid-Gac: 3 Day TAT~~
~~JH Influent, Moonbeam Influent: 2 week TAT~~
All Samples are 24hrs TAT

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	VENKATA GANESH .N	MWH	8/6/2009	13:50
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7968 3963 5498 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-ST7-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SM	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	8/6/2009	0940	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	8/6/2009	0940	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	8/6/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	8/6/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	CHARLES T. THEURING JR	CHARLES T. THEURING JR	MWH	8/6/2009	1043
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796851259290 COOLER#: MWH LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Venkata Ganesh Nagisetti G

PROJECT NAME: MAFB-OFB-3Q09

AIR FORCE ID: MAFB

PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (short)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2	LF Metals	Sulfide	LF Gen Min	Perchlorate
JH Effluent	OFB-51/52E	0	0	8/11/2009	10:55	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Mid-GAC	OFB-51/52M	0	0	8/11/2009	10:50	N	1	WF	WG	0	0	1	A	3	G	C				X									
OFB-MW-1	OFB-MW-1	0	0	8/11/2009	12:00	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections

~~JH Mid-Gac and Moonbeam Mid-Gac: 3 Day TAT!~~ All Samples 24hrs TAT

~~JH Influent, Moonbeam Influent: 2 week TAT~~

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	Venkata Ganesh N	MWH	8/11/2009	12:10
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	[signature]	Tom Vong	Appl Inc	8/12/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook

Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic

Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797855782411 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Mark Frey

PROJECT NAME: MAFB-OFB-3009
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
OFB-72	OFB-72	0	0	8/17/2009	1157	N	1	WF	WG	0	0	1	A	3	G	C		X											
~~OFB-79~~	~~OFB-79~~	~~0~~	~~0~~	~~8/17/2009~~		~~N~~	~~1~~	~~WF~~	~~WG~~	~~0~~	~~0~~	~~1~~	~~A~~	~~3~~	~~G~~	~~C~~		~~X~~											
OFB-80	OFB-80	0	0	8/17/2009	1216	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-MW-7	OFB-MW-7	0	0	8/17/2009	1330	N	1	BP	WG	0	0	1	A	3	G	C		X											

N 8/17/09

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mark Frey	MWH	8/17/2009	1600
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SM	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	8/20/2009	955	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	8/20/2009	955	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	8/20/2009	1100	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	8/20/2009	1100	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	8/20/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	8/20/2009	807	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	8/20/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	8/20/2009	920	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	8/20/2009	1130
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 1978 7701 7250 COOLER#: 603 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

VENKATA GANESH NAGISETTI G

PROJECT NAME: MAFB-OFB-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: VOCs 524.2
JH Effluent	OFB-51/52E	0	0	8/25/2009	9:35	N	1	WF	WG	0	0	1	A	3	G	C	X
JH Influent	OFB-51/52I	0	0	8/25/2009	9:25	N	1	WF	WG	0	0	1	A	3	G	C	X
JH Mid-GAC	OFB-51/52M	0	0	8/25/2009	9:30	N	1	WF	WG	0	0	1	A	3	G	C	X
Moonbeam Influent	OFB-04	0	0	8/25/2009	9:12	N	1	WF	WG	0	0	1	A	3	G	C	X
Moonbeam Mid-GAC	OFB-04M	0	0	8/25/2009	9:17	N	1	WF	WG	0	0	1	A	3	G	C	X
OFB-MW-1	OFB-MW-1	0	0	8/25/2009	12:00	N	1	BP	WG	0	0	1	A	3	G	C	X

ANALYSIS REQUEST: HVOCs (short) | HVOCs (short) | BTEX | TPH-Gas | TPH-Diesel | Lead | Gen Min 1 | Gen Min 2 | LF Metals | Sulfide | LF Gen Min | Perchlorate

Comments/Instructions:
VOCs 524.2: complete list with low level detections
JH Mid-Gac and Moonbeam Mid-Gac: 3 Day TAT! , Effluent : 3Day TAT
JH Influent, Moonbeam Influent: 2 week TAT

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	VENKATA GANESH N	MWH	8/25/2009	12:15
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Hong	Apex Inc	8/26/09	1050

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Mario Aguirre

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	9/3/2009	1100	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Mario Aguirre	Mario Aguirre	MWH	9/3/2009	13:00
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl	9/4/09	1100

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Mario AGuirre

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	9/3/2009	0900	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Mario AGuirre	Mario AGuirre	MWH	9/3/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:	Tom Vorney	Tom Vorney	Appl	9/4/09	1100

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Mario Aguirre

PROJECT NAME: MAFB-ST7-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	9/3/2009	1245	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	9/3/2009	1230	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	9/3/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	9/3/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Mario Aguirre	MWH	9/3/2009	1300
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl	9/4/09	1100

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 799941297715 COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ACW-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	9/17/2009	0925	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	9/17/2009	1133
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	9/18/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797941297715 COOLER#: 1 LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES TITHERURG JR

PROJECT NAME: MAFB-MBS-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	9/17/2009	0830	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES TITHERURG JR	MWH	9/17/2009	1135
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	9/18/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 799941297715 COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-ST7-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	9/17/2009	1005	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	9/17/2009	1005	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	9/17/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	9/17/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	9/17/2009	1132
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	9/18/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7979 7305 0018 **COOLER#:** 901 **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Venkata Ganesh Nagisetti G

PROJECT NAME: MAFB-OFB-3Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (short)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2	LF Metals	Sulfide	LF Gen Min	Perchlorate
JH Effluent	OFB-51/52E	0	0	9/29/2009	9:35	N	1	WF	WG	0	0	1	A	3	G	C				X								
JH Influent	OFB-51/52I	0	0	9/29/2009	9:25	N	1	WF	WG	0	0	1	A	3	G	C				X								
JH Mid-GAC	OFB-51/52M	0	0	9/29/2009	9:30	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Influent	OFB-04	0	0	9/29/2009	9:10	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Mid-GAC	OFB-04M	0	0	9/29/2009	9:15	N	1	WF	WG	0	0	1	A	3	G	C				X								
OFB-MW-1	OFB-MW-1	0	0	9/29/2009	11:00	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:
VOCs 524.2: complete list with low level detections
JH Mid-Gac and Moonbeam Mid-Gac: 3 Day TAT! - JH Effluent : 3 Day TAT
JH Influent, Moonbeam Influent: 2 week TAT

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	Venkata Ganesh Nagisetti	MWH	9/29/2009	12:00
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

REFERENCES

Air Force Center for Environmental Excellence (AFCEE) Headquarters, 2001. Quality Assurance Project Plan, Version 4.0.01. Air Force Center for Environmental Excellence, Brooks Air Force Base, Texas. May 2005.

Montgomery Watson, 1997a. Final Basewide Groundwater Monitoring Sampling and Analysis Plan, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1997b. Final AC&W Site Sampling and Analysis Plan, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1997c. Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Off-Base Sampling, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1999. Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Site 7 Performance Sampling, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 2000. Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Main Base/SAC Performance Sampling – Revision 1, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

U.S. Department of the Air Force, 1993. "Headquarters Air Force Center for Environmental Excellence (AFCEE) Handbook for the Installation Restoration Program (IRP) Remedial Investigation/ Feasibility Studies (RI/FS)," Environmental Services Directorate, Brooks Air Force Base, Texas.

TABLES

TABLE G-1

DATA QUALIFIER SUMMARY
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
INITIAL CALIBRATION RESULTS						
No deviations to report						
INITIAL AND CONTINUAL CALIBRATION VERIFICATION						
No deviations to report						
SURROGATE RESULTS						
SW8015M/ MBS PTE AF-07/23/09	TPH as Diesel	138 (%R)	57-132 (%R)	J (all detects)	Surrogate recovery for ortho-terphenyl was outside the control limits.	The J flag does not have any significant impact to the data quality.
LABORATORY CONTROL SAMPLE RESULTS						
No deviations to report						
MATRIX SPIKE/MATRIX SPIKE RESULTS						
SW8260/ 7-PTE-07/09/09, 7-PTE-07/23/09, 7-PTE-08/06/09, 7-PTE-08/20/09, 7-PTE-09/03/09, 7-PTE-09/17/09, 7-PTI-07/23/09, 7-PTI-07/23/09 (FD), MAFB-444, MAFB-445, MAFB-446, MAFB-446 (FD), MAFB-447, MAFB-448	Trichloroethene	36/37 (%R MS/MSD)	70-127 (%R)	M (all results)	MS/MSD recoveries for this compound in sample 7-PTI-07/23/09 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ ACW PTE-07/09/09, ACW PTE-07/23/09, ACW PTE-08/06/09, ACW PTE-08/20/09, ACW PTE-09/03/09, ACW PTE-09/17/09, ACW PTI-07/23/09, ACW PTI-07/23/09 (FD), ACW PZ-05, ACW R2, MAFB-453, MAFB-453C, MAFB-454, MAFB-454C, MAFB-455, MAFB-456, MAFB-456C	Trichloroethene	58 (%R MS)	70-127 (%R)	M (all results)	MS recovery for this compound in sample ACW PTI-07/23/09 was outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ MAFB-293, MAFB-318, MAFB-426, MAFB-435, MAFB-439, MAFB-439 (FD), MAFB-441, MAFB-450, MAFB-451, MAFB-452B, MAFB-452Bu, MAFB-459D, MAFB-459Dd	Tetrachloroethene	-14/-20 (%R MS/MSD)	66-128 (%R)	M (all results)	MS/MSD recoveries for this compound in sample MAFB-439 were outside control limits.	The M flag does not have any significant impact to the data quality.

Mather AR # 2970.1 Page 714 of 1088

TABLE G-1

DATA QUALIFIER SUMMARY
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
USEPA 524.2/ MAFB-271, MAFB-319, MAFB-319 (FD), MAFB-321, MAFB-322, MAFB-324, MAFB-324 (FD), MAFB-326, MAFB-328, MAFB-337, MAFB-338, OFB-31, OFB-32, OFB-49, OFB-51, OFB-52, OFB-52 (FD), OFB-54, OFB-56	2,2-Dichloropropane 2,2-Dichloropropane Chloroethane Chloromethane Chloromethane Dichlorodifluoromethane Tetrachloroethene Trichloroethene	76/60 (%R MS/MSD) 24.1% (RPD) 20.5% (RPD) 79 (%R MSD) 21.7% (RPD) 20.8% (RPD) 77 (%R MSD) 79 (%R MSD)	80-120 (%R) 0-20% (RPD) 0-20% (RPD) 80-120 (%R) 0-20% (RPD) 0-20% (RPD) 80-120 (%R) 80-120 (%R)	M (all results) M (all results) M (all results) M (all results) M (all results) M (all results) M (all results) M (all results)	MS/MSD and RPD recoveries for these compounds in sample MAFB-324 were outside control limits.	The M flag does not have any significant impact to the data quality.
USEPA 524.2/ OFB-04-07/28/09, OFB-04-08/25/09, OFB-04-09/29/09, OFB-04M-07/28/09, OFB-04M-08/25/09, OFB-04M-09/29/09, OFB-27, OFB-27 (FD), OFB-51/52E-08/06/09, OFB-51/52E-08/11/09, OFB-51/52E-08/25/09, OFB-51/52E-09/29/09, OFB-51/52I-07/28/09, OFB-51/52I-08/25/09, OFB-51/52I-09/29/09, OFB-51/52M-07/28/09, OFB-51/52M-08/06/09, OFB-51/52M-08/11/09, OFB-51/52M-08/25/09, OFB-51/52M-09/29/09	1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene Methylene chloride	53 (%R MS) 59.5% (RPD) 121 (%R MS)	80-120 (%R) 0-20% (RPD) 80-120 (%R)	M (all results) M (all results) M (all results)	MS and RPD recoveries for these compounds in sample OFB-27 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8015M/ MAFB-439, MBS PTE AF-07/23/09, MBS PTI-07/23/09, MBS PTI-07/23/09 (FD)	TPH as Diesel	166 (%R MS) 31.4% (RPD)	61-143 (%R) 0-30% (RPD)	M (all results) M (all results)	MS and RPD recoveries for this compound in sample MBS PTI-07/23/09 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW6010/ 7-PZ-37P, 7-PZ-37P (FD), MAFB-424	Manganese	-4/-76 (%R MS/MSD)	80-120 (%R)	M (all results)	MS/MSD recoveries for this compound in sample 7-PZ-37P were outside control limits.	The M flag does not have any significant impact to the data quality.
FIELD DUPLICATE RESULTS						
SW8260/ MAFB-441, MAFB-451, MAFB-452B, MAFB-452Bu, MBS EW-13BuB, MBS PTE AF-07/23/09, MBS PTI-07/23/09, MBS PTI-07/23/09 (FD)	Carbon tetrachloride	34.0% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MBS PTI-07/23/09 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
LABORATORY DUPLICATE SAMPLE RESULTS						
No deviations to report						
INTERNAL STANDARD RESULTS						
No deviations to report						
POST DIGESTION SPIKE RESULTS						
No deviations to report						

TABLE G-1

DATA QUALIFIER SUMMARY
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
ICP INTERFERENCE CHECK SAMPLE RESULTS						
SW6010/ 7-PTE-07/23/09, 7-PTI-07/23/09, 7-PTI-07/23/09 (FD), ACW PTE-07/23/09, ACW PTI-07/23/09, ACW PTI-07/23/09 (FD)	Calcium Magnesium Sodium	NA	NA	J (all detects)	An ICP serial dilution is not associated with these samples.	The J flag does not have any significant impact to the data quality.
BLANK DETECTIONS						
USEPA 524.2/ MAFB-322, MAFB-338	1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Isopropylbenzene n-Butylbenzene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene	NA	NA	B (all detects)	MB-07/21/09 contained 0.086 µg/L of 1,3,5-trimethylbenzene, 0.088 µg/L of 1,3-dichlorobenzene, 0.10 µg/L of 1,4-dichlorobenzene, 0.054 µg/L of isopropylbenzene, 0.23 µg/L of n-butylbenzene, 0.099 µg/L of n-propylbenzene, 0.15 µg/L of p-isopropyltoluene, and 0.12 µg/L of sec-butylbenzene.	The B flag does not have any significant impact to the data quality.
USEPA 524.2/ OFB-51/52E-08/06/09, OFB-51/52M-08/06/09	Methylene chloride	NA	NA	B (all detects)	MB-08/07/09 contained 0.33 µg/L of methylene chloride.	The B flag does not have any significant impact to the data quality.
USEPA 524.2/ OFB-51/52E-08/11/09, OFB-51/52M-08/11/09	Methylene chloride	NA	NA	B (all detects)	MB-08/12/09 contained 0.47 µg/L of methylene chloride.	The B flag does not have any significant impact to the data quality.
HOLDING TIME EXCEEDANCES						
No deviations to report						

Notes:
%R - Percent Recovery
B - Analyte detected in blank.
FD - Field Duplicate
ICP - Inductively Coupled Plasma
J - Result is an estimate.
M - Matrix effect was present.
µg/L - Micrograms per Liter
MS - Matrix Spike
MSD - Matrix Spike Duplicate
NA - Not Applicable
RPD - Relative Percent Difference
TPH - Total Petroleum Hydrocarbons
UJ - Result is not detected, but is estimated.

TABLE G-2

FIELD DUPLICATE PRECISION STUDY
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
7-PTI-07/23/09	Alkalinity, bicarbonate	mg/L	141		139		1.4
	Alkalinity, total	mg/L	141		139		1.4
	Calcium	µg/L	32,600	J	30,100	J	8.0
	Chloride	mg/L	8.8		8.8		0.0
	cis-1,2-Dichloroethene	µg/L	1.9		1.9		0.0
	Hardness as CaCO3	mg/L	124		116		6.7
	Magnesium	µg/L	16,300	J	15,000	J	8.3
	Nitrogen, nitrate	mg/L	2.2		2.2		0.0
	Sodium	µg/L	16,400	J	15,100	J	8.3
	Solids, total dissolved	mg/L	249		259		3.9
	Sulfate	mg/L	20.8		20.9		0.5
	Tetrachloroethene	µg/L	2.7		2.4		11.8
	TPH, gasoline-range	µg/L	13	F	< 50		NC
	Trichloroethene	µg/L	22	M	23	M	4.4
	Zinc	µg/L	< 50		25.5	F	NC
7-PZ-37P	1,1-Dichloroethane	µg/L	0.46	F	0.50	F	8.3
	1,1-Dichloroethene	µg/L	0.53		0.47	F	12.0
	cis-1,2-Dichloroethene	µg/L	0.54		0.53		1.9
	Manganese	µg/L	3,490	M	3,270	M	6.5
	Tetrachloroethene	µg/L	4.7		4.2		11.2
	Trichloroethene	µg/L	6.3		6.3		0.0
ACW PTI-07/23/09	Alkalinity, bicarbonate	mg/L	41.4		44.8		7.9
	Alkalinity, total	mg/L	41.4		44.8		7.9
	Calcium	µg/L	9,670	J	10,100	J	4.4
	Chloride	mg/L	3.4		3.4		0.0
	Hardness as CaCO3	mg/L	28		24		15.4
	Magnesium	µg/L	5,060	J	5,250	J	3.7
	Nitrogen, nitrate	mg/L	2.6		2.6		0.0
	Sodium	µg/L	9,660	J	10,100	J	4.5
	Solids, total dissolved	mg/L	125		122		2.4
	Sulfate	mg/L	2.1		2.1		0.0
	Trichloroethene	µg/L	6.9	M	6.2	M	10.7
MAFB-133	Alkalinity, bicarbonate	mg/L	94.3		90.2		4.4
	Alkalinity, total	mg/L	94.3		90.2		4.4
	Antimony	µg/L	2.7	F	2.3	F	16.0
	Barium	µg/L	20.4		20.5		0.5
	Chloride	mg/L	4		4		0.0
	Chromium	µg/L	3.3	F	3.3	F	0.0
	cis-1,2-Dichloroethene	µg/L	2.1		1.9		10.0
	Fluoride	mg/L	0.22		0.19		14.6
	Nickel	µg/L	2.5	F	2.5	F	0.0
	Solids, total dissolved	mg/L	167		146		13.4

TABLE G-2

FIELD DUPLICATE PRECISION STUDY
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
MAFB-133	Sulfate	mg/L	9.2		9.1		1.1
(continued)	Tetrachloroethene	µg/L	5.4		4.8		11.8
	Thallium	µg/L	0.012	F	< 1.0		NC
	Trichloroethene	µg/L	0.83		0.79		4.9
	Vanadium	µg/L	7.4	F	7.5	F	1.3
	Zinc	µg/L	3.7	F	2.8	F	27.7
MAFB-319	Chloroform	µg/L	0.31	F	0.33	F	6.3
	Tetrachloroethene	µg/L	0.62	M	0.72	M	14.9
MAFB-324	Chloroform	µg/L	0.35	F	0.38	F	8.2
	Tetrachloroethene	µg/L	0.30	M	0.27	M	10.5
MAFB-378B	Chloroform	µg/L	0.54		0.60		10.5
MAFB-400	Chromium	µg/L	1.8	F	1.7	F	5.7
MAFB-439	Carbon tetrachloride	µg/L	12		11		8.7
	Chloroform	µg/L	0.87		0.86		1.2
	Tetrachloroethene	µg/L	61	M	59	M	3.3
	Trichloroethene	µg/L	0.17	F	0.17	F	0.0
MAFB-446	1,1-Dichloroethane	µg/L	0.84	F	0.96	F	13.3
	1,1-Dichloroethene	µg/L	1.1		1.0		9.5
	1,2-Dichlorobenzene	µg/L	0.39	F	0.41	F	5.0
	1,2-Dichloroethane	µg/L	0.41	F	0.47	F	13.6
	cis-1,2-Dichloroethene	µg/L	1.7		1.6		6.1
	Tetrachloroethene	µg/L	9.4		9.2		2.2
	Trichloroethene	µg/L	48	M	50	M	4.1
	Trichlorofluoromethane	µg/L	0.57	F	0.53	F	7.3
MAFB-457Bs	cis-1,2-Dichloroethene	µg/L	0.33	F	0.46	F	32.9*
	Tetrachloroethene	µg/L	2.0		2.2		9.5
	Trichloroethene	µg/L	9.6		10		4.1
MBS PTE AF-07/23/09	Perchlorate	µg/L	1.0	F	0.99	F	1.0
MBS PTI-07/23/09	Alkalinity, bicarbonate	mg/L	96.8		99.5		2.8
	Alkalinity, total	mg/L	96.8		99.5		2.8
	Barium	µg/L	58.8		58.8		0.0
	Carbon tetrachloride	µg/L	0.86	J	0.61	J	34.0
	Chloride	mg/L	6.9		6.9		0.0
	Chloroform	µg/L	0.16	F	0.23	F	35.9*
	Chromium	µg/L	4.3	F	4.4	F	2.3
	Hardness as CaCO3	mg/L	80.1		88.1		9.5

TABLE G-2

FIELD DUPLICATE PRECISION STUDY
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
MBS PTI-07/23/09	Nitrogen, nitrate	mg/L	3.2		3.3		3.1
(continued)	Silver	µg/L	0.31	F	0.31	F	0.0
	Solids, total dissolved	mg/L	193		200		3.6
	Sulfate	mg/L	10.1		10		1.0
	Tetrachloroethene	µg/L	9.5		11		14.6
	Thallium	µg/L	< 1.0		0.09	F	NC
	Trichloroethene	µg/L	4.7		5.5		15.7
	Vanadium	µg/L	10.7	F	10.7	F	0.0
	Zinc	µg/L	< 50		11.4	F	NC
OFB-27	1,2,4-Trichlorobenzene	µg/L	0.061	F	0.073	F	17.9
	Chloroform	µg/L	0.16	F	0.17	F	6.1
	Tetrachloroethene	µg/L	0.058	F	0.052	F	10.9
	Trichloroethene	µg/L	0.045	F	0.057	F	23.5*
OFB-52	1,2,4-Trichlorobenzene	µg/L	0.071	F	0.073	F	2.8
	Carbon tetrachloride	µg/L	0.19	F	0.24		23.3*
	Chloroform	µg/L	0.062	F	0.068	F	9.2
	cis-1,2-Dichloroethene	µg/L	0.28	F	0.3	F	6.9
	Tetrachloroethene	µg/L	0.12	FM	0.13	FM	8.0
	Trichloroethene	UG/L	0.17	FM	0.18	FM	5.7

Notes:

In the instance that one result is given as "<" and the other result is given as being a trace value (F), the RPD has been indicated as NC (not calculable).

* As per AFCEE QAPP 4.0.01 validation guidelines, nonconformances with project control limits for trace value (F) data do not require validation flags.

Shaded data indicate nonconformances with project control limits.

F - Result is below Reporting Limit.
J - Result is an estimate.
M - Matrix effect was present.
µg/L - Micrograms per liter
mg/L - Milligrams per liter
RPD - Relative Percent Difference

TABLE G-3

COMPLETENESS CALCULATION
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
Mather Groundwater Monitoring Program			
USEPA Method 8260/524.2			
1,1,1,2-Tetrachloroethane	39	39	100%
1,1,1-Trichloroethane	103	103	100%
1,1,2,2-Tetrachloroethane	103	103	100%
1,1,2-Trichloroethane	103	103	100%
1,1-Dichloroethane	103	103	100%
1,1-Dichloroethene	122	122	100%
1,1-Dichloropropene	39	39	100%
1,2,3-Trichlorobenzene	39	39	100%
1,2,3-Trichloropropane	39	39	100%
1,2,4-Trichlorobenzene	39	39	100%
1,2,4-Trimethylbenzene	39	39	100%
1,2-Dibromo-3-chloropropane	39	39	100%
1,2-Dibromoethane	39	39	100%
1,2-Dichlorobenzene	103	103	100%
1,2-Dichloroethane	122	122	100%
1,2-Dichloropropane	122	122	100%
1,3,5-Trimethylbenzene	39	39	100%
1,3-Dichlorobenzene	103	103	100%
1,3-Dichloropropane	39	39	100%
1,4-Dichlorobenzene	122	122	100%
2,2-Dichloropropane	39	39	100%
2-Chlorotoluene	39	39	100%
4-Chlorotoluene	39	39	100%
Benzene	103	103	100%
Bromobenzene	39	39	100%
Bromochloromethane	39	39	100%
Bromodichloromethane	103	103	100%
Bromoform	103	103	100%
Bromomethane	103	103	100%
Carbon tetrachloride	122	122	100%
Chlorobenzene	103	103	100%
Chloroethane	103	103	100%
Chloroform	122	122	100%
Chloromethane	122	122	100%
cis-1,2-Dichloroethene	122	122	100%
cis-1,3-Dichloropropene	103	103	100%
Dibromochloromethane	103	103	100%
Dibromomethane	39	39	100%
Dichlorodifluoromethane	103	103	100%
Ethylbenzene	103	103	100%
USEPA Method 8260/524.2 (continued)			
Hexachlorobutadiene	39	39	100%
Isopropylbenzene	39	39	100%
Methylene chloride	103	103	100%
n-Butylbenzene	39	39	100%
n-Propylbenzene	39	39	100%

TABLE G-3

COMPLETENESS CALCULATION
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
Naphthalene	39	39	100%
p-Isopropyltoluene	39	39	100%
sec-Butylbenzene	39	39	100%
Styrene	39	39	100%
t-Butylbenzene	39	39	100%
Tetrachloroethene	122	122	100%
Toluene	103	103	100%
trans-1,2-Dichloroethene	103	103	100%
trans-1,3-Dichloropropene	103	103	100%
Trichloroethene	122	122	100%
Trichlorofluoromethane	103	103	100%
Vinyl chloride	122	122	100%
Xylenes, total	103	103	100%
USEPA Method 8015 Modified			
TPH as diesel	15	15	100%
TPH as gasoline	18	18	100%
USEPA Method 6010			
Antimony	8	8	100%
Arsenic	8	8	100%
Barium	8	8	100%
Beryllium	8	8	100%
Cadmium	8	8	100%
Calcium	6	6	100%
Chromium	14	14	100%
Cobalt	8	8	100%
Copper	14	14	100%
Iron	6	6	100%
Lead	13	13	100%
Magnesium	6	6	100%
Manganese	16	16	100%
Nickel	14	14	100%
Selenium	8	8	100%
Silver	8	8	100%
Sodium	6	6	100%
Vanadium	8	8	100%
USEPA Method 6010 (continued)			
Zinc	14	14	100%
USEPA Method 6020			
Thallium	8	8	100%
USEPA Method 7470			
Mercury	8	8	100%
Standard Method 2320			
Alkalinity, total	14	14	100%

TABLE G-3

COMPLETENESS CALCULATION
THIRD QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
USEPA Method 130.2			
Hardness as CaCO3	9	9	100%
USEPA Method 160.1			
Total Filterable Residue	14	14	100%
USEPA 160.2			
Total Suspended Solids	3	3	100%
USEPA Method 300.0			
Chloride	15	15	100%
Nitrate	9	9	100%
Sulfate	14	14	100%
USEPA Method 314.0			
Perchlorate	4	4	100%
USEPA 340.2			
Fluoride	5	5	100%
USEPA 376.1			
Total sulfide	5	5	100%
USEPA 7196			
Hexavalent Chromium	2	2	100%
Overall Completeness	4907	4907	100%

Notes:
TPH - Total Petroleum Hydrocarbons
USEPA - United States Environmental Protection Agency

APPENDIX H

FOURTH QUARTER 2009 ANALYTICAL DATA

SITEWIDE GROUNDWATER MONITORING

MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

FOURTH QUARTER 2009
ANALYTICAL DATA REPORT

Contract FA8903-08-D-8777, Task Order 34
MWH Americas, Inc. File No.: 1951161.
CDRL A001F

Prepared for:
Air Force Center for Environmental Excellence
Brooks Air Force Base, Texas

Prepared by:

MWH Americas, Inc.
AFCEE Full Service Remedial Action Contract Management Office
Walnut Creek, California

April 2010

TABLE OF CONTENTS

Section		Page
1.0	INTRODUCTION	1-1
2.0	ANALYTICAL RESULTS	2-1
3.0	CROSS-REFERENCE TABLE	3-1
4.0	HOLDING TIMES	4-1
5.0	QA/QC SUMMARY REPORT	5-1
6.0	CHAIN-OF-CUSTODY FORMS	6-1
REFERENCES		R-1

LIST OF TABLES
(Tables follow sections)

Table No.	
1-1	ANALYTICAL METHODS UTILIZED
2-1	ANALYTICAL DATA SUMMARY
2-1.1	Monitoring and Extraction Wells; USEPA Method 8260 - Volatile Organic Compounds
2-1.2	ACW Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.3	MBSAC Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.4	Site 7 Pump and Treat Effluent/Influent; USEPA Method 8260 - Volatile Organic Compounds
2-1.5	USEPA Method 524.2 - Volatile Organic Compounds
2-1.6	Monitoring and Extraction Wells; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.7	ACW Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
2-1.8	MBSAC Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.9	Site 7 Pump and Treat Effluent/Influent; USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
2-1.10	Monitoring and Extraction Wells; Metals
2-1.11	ACW Pump and Treat Effluent/Influent; Metals
2-1.12	MBSAC Pump and Treat Effluent/Influent; Metals
2-1.13	Site 7 Pump and Treat Effluent/Influent; Metals
2-1.14	Monitoring and Extraction Wells; General Chemistry
2-1.15	ACW Pump and Treat Effluent/Influent; General Chemistry
2-1.16	MBSAC Pump and Treat Effluent/Influent; General Chemistry
2-1.17	Site 7 Pump and Treat Effluent/Influent; General Chemistry
2-2	SURROGATE PERCENT RECOVERY SUMMARY
2-2.1	USEPA Method 8260 - Volatile Organic Compounds
2-2.2	USEPA Method 524.2 - Volatile Organic Compounds
2-2.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
2-2.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
3-1	FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
4-1	SUMMARY OF EXTRACTION AND ANALYSIS DATES
4-1.1	USEPA Method 8260 - Volatile Organic Compounds
4-1.2	USEPA Method 524.2 - Volatile Organic Compounds
4-1.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel and Gasoline
4-1.4	USEPA Method 6010 - ICP Metals
4-1.5	USEPA Method 6020 - Thallium USEPA Method 7470 - Mercury

LIST OF TABLES
(Continued)

Table No.	
4-1.6	Standard Method 2320 - Alkalinity
	USEPA Method 130.2 - Hardness
4-1.7	USEPA Method 160.1 - Total Filterable Residue
	USEPA Method 160.2 - Total Suspended Solids
4-1.8	USEPA Method 300.0 - Chloride, Nitrate, and Sulfate
	USEPA Method 314.0 - Perchlorate
4-1.9	USEPA Method 340.2 - Fluoride
	USEPA Method 376.1 - Total Sulfide
4.1.10	USEPA Method 7196 - Hexavalent Chromium
5-1	SAMPLE BATCHING SUMMARY
5-1.1	Analytical Batch Summary
5-1.2	Matrix Spike and Matrix Spike Duplicate Batch Summary
5-2	LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
5-2.1	USEPA Method 8260 - Volatile Organic Compounds
5-2.2	USEPA Method 524.2 - Volatile Organic Compounds
5-2.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
5-2.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
5-2.5	Metals
5-2.6	General Chemistry
5-3	MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
5-3.1	USEPA Method 8260 - Volatile Organic Compounds
5-3.2	USEPA Method 524.2 - Volatile Organic Compounds
5-3.3	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Gasoline
5-3.4	USEPA Method 8015 Modified - Total Petroleum Hydrocarbons as Diesel
5-3.5	Metals
5-3.6	General Chemistry
5-4	LABORATORY DUPLICATE SUMMARY; General Chemistry

1.0 INTRODUCTION

In accordance with Task Order 34, Contract No. FA8903-08-D-8777, MWH Americas, Inc., (MWH; formerly Montgomery Watson) has prepared this Fourth Quarter 2009 Analytical Data Report (ADR) for the Mather and Landfill groundwater sampling, and AC&W, Main Base/SAC area, Site 7, and Off-Base performance monitoring at the former Mather Air Force Base (AFB), California. This ADR provides a tabular summary of the analytical data associated with routine groundwater monitoring samples as well as biweekly and monthly treatment system samples taken from October 1, 2009, through December 29, 2009. The analytical quality control (QC) program used to assess chemical data presented in this ADR is discussed in the Final Basewide Groundwater Monitoring Sampling and Analysis Plan (SAP) (Montgomery Watson, 1997a), the Final AC&W Site Sampling and Analysis Plan (Montgomery Watson, 1997b), the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Off-Base Sampling (Montgomery Watson, 1997c), the Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Main Base/SAC Performance Sampling – Revision 1 (Montgomery Watson, 2000), and the Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Site 7 Performance Sampling (Montgomery Watson, 1999).

The tables presented in this ADR are grouped to correspond with the outline presented in Appendix A, Tab 6 of the AFCEE Handbook for the Installation Restoration Program (IRP) Remedial Investigations and Feasibility Studies (RI/FS) ("the Handbook") (AFCEE, 1993). The ADR table formats presented in the Handbook have been altered to facilitate more efficient data organization; however, the information presented in this ADR is equivalent to that contained in the table formats suggested by the Handbook. Differences in table format are explained in the text of each individual section. A complete list of all analytical methods utilized for this project is presented in Table 1-1.

Shaded data indicate nonconformances with project control limits.

Unless otherwise noted, all metals data is reported as dissolved metals.

TABLE 1-1

ANALYTICAL METHODS UTILIZED
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analytical Parameter	Method	Matrix
VOCs	USEPA 8260	Water
VOCs	USEPA 524.2	Water
Purgeable TPH as Gasoline	USEPA 8015 Modified	Water
Extractable TPH as Diesel	USEPA 8015 Modified	Water
ICP Metals	USEPA 6010	Water
Thallium	USEPA 6020	Water
Mercury by Atomic Absorption	USEPA 7470	Water
Total Alkalinity	SM 2320	Water
Hardness	USEPA 130.2	Water
Total Filterable Residue	USEPA 160.1	Water
Total Suspended Solids	USEPA 160.2	Water
Anions (Chloride, Nitrate, and Sulfate)	USEPA 300.0	Water
Perchlorate	USEPA 314.0	Water
Fluoride	USEPA 340.2	Water
Total Sulfide	USEPA 376.1	Water
Hexavalent Chromium	USEPA 7196	Water

Notes:
ICP - Inductively Coupled Plasma
SM - Standard Methods, 19th edition
TPH - Total Petroleum Hydrocarbons
USEPA - United States Environmental Protection Agency
VOCs - Volatile Organic Compounds

2.0 ANALYTICAL RESULTS

The tables presented in this section correspond to Table A-4 of the Handbook (Appendix A, Tab 6).

Table A-4 of the Handbook has been separated into two distinct table types for this report. The Analytical Data Summary (Tables 2-1.1 through 2-1.17) contains the results for all environmental field samples and field sample duplicates. Trip blank sample results are also included in these 17 tables. The Surrogate Percent Recovery Summary (Tables 2-2.1 through 2-2.4) separates surrogate recovery information from all other analytical data.

All results have been subjected to data verification. Results determined to be not detected, but estimated, have been flagged with a "UJ." Results determined to be estimated values have been flagged with a "J." Results considered not usable have been flagged with an "R." Results reported between the method detection limit and the practical quantitation limit have been flagged with an "F." Results determined to have matrix effects have been flagged with an "M." Results for analytes found in associated method or trip blanks, as well as in the associated sample, have been flagged with a "B."

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-BV-01	7-BV-02	7-BV-04	7-BV-06	7-BV-07	7-BV-08	7-BV-13	7-PZ-37P	7-PZ-37P (FD)	ACW PZ-05
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	< 1.0	0.51 F	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 F	0.22 F	NA
1,1-Dichloroethene	< 0.50	0.41 F	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 M
1,2-Dichlorobenzene	< 2.0	0.41 F	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
1,2-Dichloroethane	< 0.50	3.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	5.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	NA
1,4-Dichlorobenzene	0.48 F	0.69	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Bromomethane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	0.22 F	3.6	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	NA
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Chloroform	< 0.50	0.13 F	< 0.50	< 0.50	< 0.50	< 0.50	0.21 F	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50	0.18 F	0.58	0.42 F	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	NA
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methylene chloride	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Tetrachloroethene	< 0.50	1.8	< 0.50	< 0.50	1.1	0.46 F	0.9	2.2	1.9	< 0.50
Toluene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Trichloroethene	0.25 F	14	< 0.50	< 0.50	3.3	4.3	3.8	2.7	2.3	0.44 F
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Vinyl chloride	< 0.50	0.54	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA

Notes:

B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 731 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	ACW R2		FFS EW15-1		FFS EW15-2		FFS MW15-1		FFS MW15-2		FFS MW15-3		MAFB-044		MAFB-132	
1,1,1-Trichloroethane	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
1,1,2,2-Tetrachloroethane	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
1,1,2-Trichloroethane	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
1,1-Dichloroethane	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
1,1-Dichloroethene	< 0.50	M	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		NA		NA	
Bromodichloromethane	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Bromoform	NA		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA	
Bromomethane	NA		< 10		< 10		< 10		< 10		< 10		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		1.2		< 0.50		< 0.50		1.4		< 0.50		< 0.50	
Chlorobenzene	NA		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		NA		NA	
Chloroethane	NA		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		NA		NA	
Chloroform	< 0.50		< 0.50		0.34	F	< 0.50		0.11	F	0.40	F	< 0.50		0.14	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		0.32	F	0.23	F	0.38	F	0.64		0.18	F	< 0.50		23	
cis-1,3-Dichloropropene	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Dibromochloromethane	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Dichlorodifluoromethane	NA		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		NA		NA	
Ethylbenzene	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Methylene chloride	NA		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		NA		NA	
Tetrachloroethene	< 0.50		0.24	FM	4.3	M	0.29	FM	0.41	FM	1.9	M	< 0.50		20	
Toluene	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
trans-1,2-Dichloroethene	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
trans-1,3-Dichloropropene	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Trichloroethene	< 0.50		4.1		4.0		4.7		10		4.2		< 0.50		5.1	
Trichlorofluoromethane	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 732 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	MAFB-133		MAFB-133 (FD)		MAFB-136		MAFB-149		MAFB-284		MAFB-293		MAFB-296		MAFB-318		MAFB-354B	
1,1,1-Trichloroethane	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
1,1,2-Trichloroethane	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
1,1-Dichloroethane	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		0.51		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		NA		NA		NA		< 2.0		NA		NA		NA		NA	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		0.16	F	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		0.23	F	< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		NA		NA		NA		< 3.0		NA		NA		NA		NA	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	NA		NA		NA		NA		< 0.50		NA		NA		NA		NA	
Bromodichloromethane	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
Bromoform	NA		NA		NA		NA		< 2.0		NA		NA		NA		NA	
Bromomethane	NA		NA		NA		NA		< 10		NA		NA		NA		NA	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		0.31	F	1.1		2.7		0.14	F
Chlorobenzene	NA		NA		NA		NA		< 2.5		NA		NA		NA		NA	
Chloroethane	NA		NA		NA		NA		< 5.0		NA		NA		NA		NA	
Chloroform	0.11	F	0.12	F	0.37	F	< 0.50		< 0.50		< 0.50		0.19	F	0.18	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	2.3		2.4		5.5		< 0.50		0.19	F	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
Dibromochloromethane	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
Dichlorodifluoromethane	NA		NA		NA		NA		< 4.0		NA		NA		NA		NA	
Ethylbenzene	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
Methylene chloride	NA		NA		NA		NA		< 2.0		NA		NA		NA		NA	
Tetrachloroethene	4.3		4.1		6.0		0.20	F	0.48	F	0.18	FM	6.7		2.0		< 0.50	
Toluene	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
trans-1,2-Dichloroethene	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
trans-1,3-Dichloropropene	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
Trichloroethene	0.89		0.96		1.9		< 0.50		2.5		< 0.50		0.17	F	< 0.50		< 0.50	
Trichlorofluoromethane	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	NA		NA		NA		NA		< 1.0		NA		NA		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 μg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 733 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-354D	MAFB-378B		MAFB-378B (FD)		MAFB-378D		MAFB-382B		MAFB-388Ds		MAFB-397		MAFB-398	MAFB-398C	
1,1,1-Trichloroethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
1,1,2,2-Tetrachloroethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
1,1,2-Trichloroethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
1,1-Dichloroethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
1,1-Dichloroethene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichlorobenzene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
1,2-Dichloroethane	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	0.51	F
1,3-Dichlorobenzene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
1,4-Dichlorobenzene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Benzene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Bromodichloromethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Bromoform	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Bromomethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Carbon tetrachloride	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Chlorobenzene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Chloroethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Chloroform	< 0.50	0.36 (a)	BF	0.41 (a)	BFJ	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Chloromethane	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50	UJ	< 0.50	UJ	< 0.50	UJ	0.32	F	< 0.50		< 0.50	UJ	1.8	8.6	
cis-1,3-Dichloropropene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Dibromochloromethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Dichlorodifluoromethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Ethylbenzene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Methylene chloride	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Tetrachloroethene	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M	1.8	4.1	
Toluene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
trans-1,2-Dichloroethene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
trans-1,3-Dichloropropene	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Trichloroethene	< 0.50	< 0.50		< 0.50		< 0.50		0.21	F	< 0.50		< 0.50		< 0.50	1.3	
Trichlorofluoromethane	NA	NA		NA		NA		NA		NA		NA		NA	NA	
Vinyl chloride	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50	
Xylenes, total	NA	NA		NA		NA		NA		NA		NA		NA	NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 734 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-399	MAFB-400	MAFB-413	MAFB-424		MAFB-426	MAFB-433		MAFB-433 (FD)		MAFB-434Bd	
1,1,1-Trichloroethane	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	1.2		< 0.50	< 0.50	M	< 0.50	M	< 0.50	
1,2-Dichlorobenzene	NA	NA	< 2.0	< 2.0		NA	< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	NA	NA	< 3.0	< 3.0		NA	< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
Benzene	NA	NA	< 0.50	< 0.50		NA	< 0.50	M	< 0.50	M	< 0.50	
Bromodichloromethane	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
Bromoform	NA	NA	< 2.0	< 2.0		NA	< 2.0		< 2.0		< 2.0	
Bromomethane	NA	NA	< 10	< 10		NA	< 10		< 10		< 10	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50		1.5	< 0.50		< 0.50		< 0.50	
Chlorobenzene	NA	NA	< 2.5	< 2.5		NA	< 2.5		< 2.5		< 2.5	
Chloroethane	NA	NA	< 5.0	< 5.0		NA	< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	2.8	2.0	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	UJ
cis-1,3-Dichloropropene	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
Dibromochloromethane	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	NA	NA	< 4.0	< 4.0		NA	< 4.0		< 4.0		< 4.0	
Ethylbenzene	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
Methylene chloride	NA	NA	< 2.0	< 2.0		NA	< 2.0	M	< 2.0	M	< 2.0	
Tetrachloroethene	3.0	2.6	< 0.50	0.32	F	< 0.50	< 0.50		< 0.50		3.2	M
Toluene	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	
Trichloroethene	0.86	0.74	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		18	
Trichlorofluoromethane	NA	NA	< 1.0	22		NA	< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50		< 0.50	
Xylenes, total	NA	NA	< 1.0	< 1.0		NA	< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 735 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	MAFB-434Bd (FD)		MAFB-435		MAFB-436		MAFB-438		MAFB-439		MAFB-439 (FD)		MAFB-441		MAFB-442	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	0.30	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		1.1		< 0.50		< 0.50		14		13		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		0.25	F	< 0.50		0.96		0.85		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	0.63	J	< 0.50		< 0.50		1.0		< 0.50		< 0.50		< 0.50		< 0.50	UJ
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	3.1	M	9.1		4.3		3.5		77	M	84	M	< 0.50	M	< 0.50	M
Toluene	< 1.0		< 1.0		1.7		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	17		< 0.50		< 0.50		0.42	F	0.24	F	0.32	F	< 0.50		0.16	F
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 μg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 736 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-443	MAFB-444	MAFB-445	MAFB-446	MAFB-446 (FD)	MAFB-447	MAFB-448	MAFB-449Bd
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	1.1	1.1	< 1.0	0.20 F	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	1.1	1.1	0.46 F	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0	0.41 F	0.41 F	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	0.50	0.56	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50 M	< 0.50 M	< 0.50 M	< 0.50 M	< 0.50 M	< 0.50 M	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	1.8	1.8	0.30 F	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0 M	< 2.0 M	< 2.0 M	< 2.0 M	< 2.0 M	< 2.0 M	< 2.0
Tetrachloroethene	< 0.50	0.24 F	0.46 F	9.3	9.7	2.1	1.2	< 0.50
Toluene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	1.4 M	2.9 M	57 M	56 M	18 M	9.0 M	< 0.50
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	0.45 F	0.46 F	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 737 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-449Bs		MAFB-450		MAFB-451		MAFB-452B		MAFB-452Bu		MAFB-453		MAFB-453C		MAFB-454	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		0.63		< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50	UJ	0.30	F	0.79		1.4		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	M	< 2.0	M	< 2.0	M
Tetrachloroethene	< 0.50		< 0.50	M	3.8	M	13	M	5.4	M	< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	0.36	F	< 0.50		16		48		18		2.7		11		1.0	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 738 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-454C		MAFB-455		MAFB-456		MAFB-456C		MAFB-457Bd	MAFB-457Bs		MAFB-457Bs (FD)		MAFB-458Bd		MAFB-458Bs	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10	< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	0.47	F	0.54		0.33	F	0.47	F
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0	< 4.0		< 4.0		< 4.0		< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	< 2.0		< 2.0		< 2.0		< 2.0	
Tetrachloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	1.9		1.9		0.77		0.59	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	5.5		< 0.50		0.42	F	0.98		< 0.50	10		10		5.5		4.4	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 739 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-459D	MAFB-459Dd	MAFB-460Bd		MAFB-460Bs	MAFB-461Bd	MAFB-461Bs	MBS EW-13BuB		OFB-72		OFB-80	
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	0.36	F	< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0		NA		NA	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0		< 3.0	< 3.0	< 3.0	< 3.0		NA		NA	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Benzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		NA		NA	
Bromodichloromethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
Bromoform	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0		NA		NA	
Bromomethane	< 10	< 10	< 10		< 10	< 10	< 10	< 10		NA		NA	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5		NA		NA	
Chloroethane	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0		NA		NA	
Chloroform	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	0.75		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
Dibromochloromethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0		< 4.0	< 4.0	< 4.0	< 4.0		NA		NA	
Ethylbenzene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
Methylene chloride	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0		NA		NA	
Tetrachloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	3.2		0.46	FM	< 0.50	M
Toluene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
Trichloroethene	< 0.50	< 0.50	0.29	F	3.7	< 0.50	< 0.50	17		3.8		< 0.50	
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	
Vinyl chloride	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0		NA		NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 740 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	OFB-85		TB-10/01/09	TB-10/12/09	TB-10/15/09	TB-10/19/09	TB-10/21/09	TB-10/22/09	TB-10/23/09		TB-10/26/09	
1,1,1-Trichloroethane	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,1,2-Trichloroethane	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethane	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichlorobenzene	NA		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,3-Dichlorobenzene	NA		< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Benzene	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Bromodichloromethane	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Bromoform	NA		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	
Bromomethane	NA		< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Chlorobenzene	NA		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	
Chloroethane	NA		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.14	F	0.55	
Chloromethane	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,3-Dichloropropene	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Dibromochloromethane	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Dichlorodifluoromethane	NA		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0		0.27	F
Ethylbenzene	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Methylene chloride	NA		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	
Tetrachloroethene	< 0.50	M	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Toluene	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
trans-1,2-Dichloroethene	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
trans-1,3-Dichloropropene	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Trichloroethene	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Trichlorofluoromethane	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Xylenes, total	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 741 of 1088

TABLE 2-1.1

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-10/27/09	TB-10/28/09	TB-10/29/09	TB-11/12/09	TB-11/24/09	TB-11/30/09	TB-12/01/09	TB-12/10/09	TB-12/22/09
1,1,1-Trichloroethane	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroet	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichlorometha	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroether	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloroprope	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochlorometha	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluorometh	NA	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	0.23 F	< 4.0
Ethylbenzene	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	NA	0.65 F	< 2.0	0.81 F	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroeth	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropro	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50	0.18 F	< 0.50	< 0.50	< 0.50	< 0.50	0.17 F	< 0.50
Trichlorofluorometha	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/26/09 contained 0.55 µg/L of chloroform.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 742 of 1088

TABLE 2-1.2

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/01/09 ACW PTE		10/15/09 ACW PTE		10/15/09 ACW PTI		10/15/09 ACW PTI (FD)		10/29/09 ACW PTE		11/12/09 ACW PTE		11/24/09 ACW PTE		12/10/09 ACW PTE		12/22/09 ACW PTE	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		0.24	F	< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
Tetrachloroethene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50		< 0.50		6.0		6.0		< 0.50		< 0.50		< 0.50		0.20 (a)	BF	< 0.50	
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Vinyl chloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, total	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit

(a) MB-12/11/09 contained 0.22 µg/L of trichloroethene.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.3

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/01/09	10/15/09			10/29/09	11/12/09	11/24/09	12/10/09	12/22/09
	MBS PTE AF	MBS PTE AF	MBS PTI	MBS PTI (FD)	MBS PTE AF	MBS PTE AF	MBS PTE AF	MBS PTE AF	MBS PTE AF
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon tetrachloride	< 0.50	< 0.50	1.3	1.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	< 0.50	< 0.50	0.23 F	0.23 F	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	< 0.50	< 0.50	0.17 F	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	0.24 F	< 4.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	< 0.50	< 0.50	9.6	9.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	< 0.50	< 0.50	4.1	4.3	< 0.50	< 0.50	< 0.50	0.21 (a) BF	< 0.50

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 744 of 1088

TABLE 2-1.3

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/01/09	10/15/09			10/29/09	11/12/09	11/24/09	12/10/09	12/22/09
	MBS PTE AF	MBS PTE AF	MBS PTI	MBS PTI (FD)	MBS PTE AF	MBS PTE AF	MBS PTE AF	MBS PTE AF	MBS PTE AF
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

(a) MB-12/11/09 contained 0.22 µg/L of trichloroethene.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.4

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/01/09		10/15/09						10/29/09		11/12/09		11/24/09		12/10/09		12/22/09	
	7-PTE		7-PTE		7-PTI		7-PTI (FD)		7-PTE		7-PTE		7-PTE		7-PTE		7-PTE	
1,1,1-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2,2-Tetrachloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1,2-Trichloroethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	< 1.0		< 1.0		0.6	F	0.87	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		0.36	F	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
1,2-Dichloroethane	< 0.50		< 0.50	UJ	0.95	J	1.2	J	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 1.0		< 1.0		0.27	F	0.43	F	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
1,3-Dichlorobenzene	< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0		< 3.0	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
Bromodichloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Bromoform	< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0		< 2.0	
Bromomethane	< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10		< 10	
Carbon tetrachloride	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chlorobenzene	< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5		< 2.5	
Chloroethane	< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50	UJ	1.5	J	2.2	J	< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dibromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Dichlorodifluoromethane	< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		< 4.0		0.25	F	< 4.0	
Ethylbenzene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Methylene chloride	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
Tetrachloroethene	< 0.50		< 0.50		2.8		3.1		< 0.50		< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
trans-1,3-Dichloropropene	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	
Trichloroethene	< 0.50	M	< 0.50	M	21	M	24	M	< 0.50	M	< 0.50	M	< 0.50	M	0.17 (a)	BFM	< 0.50	M
Trichlorofluoromethane	< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0	

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 746 of 1088

TABLE 2-1.4

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	10/01/09	10/15/09			10/29/09	11/12/09	11/24/09	12/10/09	12/22/09
	7-PTE	7-PTE	7-PTI	7-PTI (FD)	7-PTE	7-PTE	7-PTE	7-PTE	7-PTE
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) MB-12/11/09 contained 0.22 μg/L of trichloroethene.

There were no analytes detected in associated method and trip blanks except as indicated.

Mather AR # 2970.1 Page 747 of 1088

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 20)

Analyte (µg/L)	MAFB-271		MAFB-319		MAFB-319 (FD)		MAFB-321	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,3-Trichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		0.35	F	< 0.50		0.27	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	UJ	0.28	J	0.054	FJ	0.53	J

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 20)

Analyte (μg/L)	MAFB-271	MAFB-319	MAFB-319 (FD)		MAFB-321
Toluene	< 0.50	< 0.50	0.12	F	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50		< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20		< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50		< 0.50
Vinyl chloride	< 0.50	< 0.50	0.11	F	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50		< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 μg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 20)

Analyte (µg/L)	MAFB-322		MAFB-324		MAFB-324 (FD)		MAFB-326	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,3-Trichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		0.11	F	0.28	F	0.32	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	UJ	< 0.20	UJ	0.53	J	0.20	J

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 20)

Analyte (µg/L)	MAFB-322	MAFB-324	MAFB-324 (FD)	MAFB-326
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 20)

Analyte (µg/L)	MAFB-328		MAFB-330		MAFB-336		MAFB-337	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,3-Trichloropropane	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trichlorobenzene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		0.47		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		0.31	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50	M	< 0.50	M	< 0.50	M	< 0.50	M
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	UJ	0.71		0.15	F	0.26	J

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 20)

Analyte (µg/L)	MAFB-328	MAFB-330	MAFB-336		MAFB-337
Toluene	< 0.50	< 0.50	< 0.50		< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50		< 0.50
Trichloroethene	< 0.20	0.66	0.15	F	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50		< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50		< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50		< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 20)

Analyte (µg/L)	MAFB-338		OFB-04 10/27/09		OFB-04 11/24/09		OFB-04 12/29/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50	M	< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50	M	< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50	M	< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50	M	< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		0.25	F	< 0.50	
Bromoform	< 0.50		< 0.50		0.40	F	< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		0.096	F	0.14	F
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		0.30	F	< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		0.42	F	< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		0.07	F
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50	M	< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20	UJ	< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 20)

Analyte (µg/L)	MAFB-338	OFB-04 10/27/09	OFB-04 11/24/09	OFB-04 12/29/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 20)

Analyte (µg/L)	OFB-04M 10/27/09		OFB-04M 11/24/09		OFB-04M 12/29/09		OFB-27	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		0.19	F
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		0.13	F	< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		0.43	F
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		0.36	F
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		0.54 (a)	B
n-Butylbenzene	< 0.50		< 0.50		0.080	F	< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 20)

Analyte (µg/L)	OFB-04M 10/27/09	OFB-04M 11/24/09	OFB-04M 12/29/09	OFB-27
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 20)

Analyte (µg/L)	OFB-27 (FD)		OFB-31		OFB-32		OFB-49	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,2,3-Trichloropropane	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trichlorobenzene	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	0.15	F	< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	0.36	F	< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	0.19	F	< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 20)

Analyte (µg/L)	OFB-27 (FD)	OFB-31	OFB-32	OFB-49
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 20)

Analyte (µg/L)	OFB-51		OFB-51/52I 10/27/09		OFB-51/52I 11/24/09		OFB-51/52I 12/29/09	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	0.53		< 0.20		0.38		0.35	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		0.058	F
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 14 of 20)

Analyte (μg/L)	OFB-51	OFB-51/52I 10/27/09	OFB-51/52I 11/24/09	OFB-51/52I 12/29/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 μg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 15 of 20)

Analyte (µg/L)	OFB-51/52M 10/27/09		OFB-51/52M 11/24/09		OFB-51/52M 12/29/09		OFB-52	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		0.11	F	< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50		< 0.50		< 0.50	
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 16 of 20)

Analyte (μg/L)	OFB-51/52M 10/27/09	OFB-51/52M 11/24/09	OFB-51/52M 12/29/09	OFB-52
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
μg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 μg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 17 of 20)

Analyte (µg/L)	OFB-52 (FD)		OFB-54		OFB-55		OFB-56	
1,1,1,2-Tetrachloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,1-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,1,2-Trichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
1,1-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2,3-Trichlorobenzene	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,2,3-Trichloropropane	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trichlorobenzene	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
1,2,4-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	M	< 2.0	M	< 2.0	M	< 2.0	M
1,2-Dibromoethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloroethane	< 0.50		< 0.50		< 0.50		< 0.50	
1,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,3,5-Trimethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
1,3-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
1,4-Dichlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
2,2-Dichloropropane	< 0.50		< 0.50		< 0.50		< 0.50	
2-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
4-Chlorotoluene	< 0.50		< 0.50		< 0.50		< 0.50	
Benzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Bromochloromethane	< 1.0		< 1.0		< 1.0		< 1.0	
Bromodichloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Bromoform	< 0.50		< 0.50		< 0.50		< 0.50	
Bromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Carbon tetrachloride	< 0.20		< 0.20		< 0.20		< 0.20	
Chlorobenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Chloroethane	< 1.0		< 1.0		< 1.0		< 1.0	
Chloroform	< 0.50		< 0.50		< 0.50		< 0.50	
Chloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,2-Dichloroethene	< 0.50		< 0.50		< 0.50		< 0.50	
cis-1,3-Dichloropropene	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromochloromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dibromomethane	< 0.50		< 0.50		< 0.50		< 0.50	
Dichlorodifluoromethane	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	< 0.50		< 0.50		< 0.50		< 0.50	
Isopropylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Methylene chloride	< 0.50		< 0.50		< 0.50		< 0.50	
n-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
n-Propylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	< 0.50		< 0.50	M	< 0.50	M	< 0.50	M
p-Isopropyltoluene	< 0.50		< 0.50		< 0.50		< 0.50	
sec-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Styrene	< 0.50		< 0.50		< 0.50		< 0.50	
t-Butylbenzene	< 0.50		< 0.50		< 0.50		< 0.50	
Tetrachloroethene	< 0.20		< 0.20		< 0.20		< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 18 of 20)

Analyte (µg/L)	OFB-52 (FD)	OFB-54	OFB-55	OFB-56
Toluene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 µg/L of methylene chloride.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 19 of 20)

Analyte (µg/L)	TB-10/12/09	TB-10/14/09	TB-10/27/09		TB-11/24/09	TB-12/29/09	
1,1,1,2-Tetrachloroethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,1-Trichloroethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2,2-Tetrachloroethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2-Trichloroethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloroethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloropropene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,3-Trichlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,3-Trichloropropane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,4-Trichlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,4-Trimethylbenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dibromo-3-chloropropane	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	
1,2-Dibromoethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloroethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3,5-Trimethylbenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3-Dichlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3-Dichloropropane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,4-Dichlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
2,2-Dichloropropane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
2-Chlorotoluene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
4-Chlorotoluene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Benzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromochloromethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	
Bromodichloromethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromoform	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromomethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Carbon tetrachloride	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	
Chlorobenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chloroethane	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	
Chloroform	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chloromethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
cis-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dibromochloromethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dibromomethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dichlorodifluoromethane	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Ethylbenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Hexachlorobutadiene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Isopropylbenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Methylene chloride	< 0.50	< 0.50	0.40	F	< 0.50	< 0.50	
n-Butylbenzene	< 0.50	< 0.50	< 0.50		< 0.50	0.095	F
n-Propylbenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Naphthalene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
p-Isopropyltoluene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
sec-Butylbenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Styrene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
t-Butylbenzene	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Tetrachloroethene	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.5

ANALYTICAL DATA SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 20 of 20)

Analyte (µg/L)	TB-10/12/09	TB-10/14/09	TB-10/27/09	TB-11/24/09	TB-12/29/09
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, total	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
µg/L - Micrograms per liter
RL - Reporting Limit
TB - Trip Blank
UJ - Result is not detected, but is estimated.

(a) TB-10/27/09 contained 0.40 µg/L of methylene chloride.

There were no analytes detected in associated method and trip blanks except as indicated.

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	7-BV-13	7-PZ-37P	7-PZ-37P (FD)	MAFB-044	MAFB-149	MAFB-284	MAFB-413	MAFB-419
TPH, diesel-range	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
TPH, gasoline-range	< 50	< 50	< 50	NA	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 768 of 1088

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	MAFB-436	MAFB-439		TB-10/01/09	TB-10/15/09	TB-10/21/09	TB-10/22/09	TB-10/26/09
TPH, diesel-range	< 50	< 50		NA	NA	NA	NA	NA
TPH, gasoline-range	< 50	27	F	< 50	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 769 of 1088

TABLE 2-1.6

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	TB-10/29/09	TB-11/12/09	TB-11/24/09	TB-12/01/09	TB-12/10/09	TB-12/22/09
TPH, diesel-range	NA	NA	NA	NA	NA	NA
TPH, gasoline-range	< 50	< 50	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit
TB - Trip Blank

There were no analytes detected in associated method and trip blanks.

Mather AR # 2970.1 Page 770 of 1088

TABLE 2-1.7

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/15/09	
	ACW PTE	ACW PTE (FD)
TPH, diesel-range	< 50	< 50

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter

There were no analytes detected in associated method blanks.

TABLE 2-1.8

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/15/09			
	MBS PTE AF	MBS PTI	MBS PTI (FD)	
TPH, diesel-range	< 50	< 50	< 50	
TPH, gasoline-range	< 50	< 50	9.6	F

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.9

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/01/09	10/15/09				10/29/09	11/12/09	11/24/09	12/10/09	12/22/09
	7-PTE	7-PTE	7-PTI		7-PTI (FD)	7-PTE	7-PTE	7-PTE	7-PTE	7-PTE
TPH, diesel-range	NA	< 50	< 50		< 50	NA	NA	NA	NA	NA
TPH, gasoline-range	< 50	< 50	9.0	F	11 F	< 50	< 50	< 50	< 50	< 50

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
NA - Not Applicable
RL - Reporting Limit

There were no analytes detected in associated method and trip blanks.

TABLE 2-1.10

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	7-BV-01		7-BV-02		7-BV-02 (FD)		7-BV-04		7-BV-06		7-BV-07		7-BV-08		7-PZ-37P		7-PZ-37P (FD)		MAFB-111	
USEPA 6010																				
Antimony	NA		NA		NA		NA		NA		NA		NA		< 60		< 60		NA	
Arsenic	NA		NA		NA		NA		NA		NA		NA		< 5.0		< 5.0		NA	
Barium	NA		NA		NA		NA		NA		NA		NA		78.8		81.7		NA	
Beryllium	NA		NA		NA		NA		NA		NA		NA		< 3.0		< 3.0		NA	
Cadmium	NA		NA		NA		NA		NA		NA		NA		< 5.0		< 5.0		NA	
Calcium	65,500	M	123,000	M	128,000	M	110,000	M	78,700	M	85,400	M	63,000	M	NA		NA		NA	
Chromium	NA		NA		NA		NA		NA		NA		NA		< 10		< 10		1.7	F
Cobalt	NA		NA		NA		NA		NA		NA		NA		< 50		< 50		NA	
Copper	5.0	F	< 10		< 10		5.9	F	2.3	F	< 10		< 10		1.8	F	1.8	F	NA	
Iron	89.9		23.4	F	39.8	F	< 70		544		7.1	F	14.0	F	NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA		< 3.0		< 3.0		NA	
Magnesium	34,500	M	66,300	M	69,800	M	59,500	M	44,400	M	48,400	M	37,200	M	NA		NA		NA	
Manganese	3000		8.5	F	8.7	F	837		4430		3.5	F	3.2	F	2,200		2,330		NA	
Nickel	NA		NA		NA		NA		NA		NA		NA		9.3	F	9.8	F	0.39	F
Selenium	NA		NA		NA		NA		NA		NA		NA		< 5.0		< 5.0		NA	
Silver	NA		NA		NA		NA		NA		NA		NA		< 10		< 10		NA	
Sodium	21,300	M	28,800	M	30,800	M	28,000	M	31,200	M	25,400	M	25,300	M	NA		NA		NA	
Vanadium	NA		NA		NA		NA		NA		NA		NA		6.3	F	6.5	F	NA	
Zinc	11.7	F	12.0	F	2.8	F	9.2	F	6.1	F	4.0	F	6.8	F	2.5	F	7.0	F	NA	
USEPA 6020																				
Thallium	NA		NA		NA		NA		NA		NA		NA		0.68	F	0.27	F	NA	
USEPA 7470																				
Mercury	NA		NA		NA		NA		NA		NA		NA		< 0.20		0.060	F	NA	

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
R - Result in invalid.
RL - Reporting Limit

(a) CCB-11/02/09 contained 4.61 μg/L of selenium.
(b) CCB-11/02/09 contained 0.128 μg/L of mercury.
(c) CCB-10/29/09 contained 0.112 μg/L of mercury.

There were no analytes detected in associated method blanks except as indicated.

Mather AR # 2970.1 Page 774 of 1088

TABLE 2-1.10

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	MAFB-129	MAFB-132	MAFB-133	MAFB-133 (FD)	MAFB-136	MAFB-284	MAFB-288	MAFB-398	MAFB-398C	MAFB-399
USEPA 6010										
Antimony	NA	< 60	< 60	< 60	< 60	< 60	NA	< 60	< 60	< 60
Arsenic	NA	< 5.0	2.5 F	3.5 F	< 5.0	< 5.0	NA	< 5.0	3.9 F	< 5.0
Barium	NA	70.8	18.6 F	18.9 F	82.7	40.8	NA	18.0 F	28.1	30.7
Beryllium	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	NA	< 3.0	< 3.0	< 3.0
Cadmium	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	2.4 F	9.9 F	2.3 F	2.8 F	78.6	3.5 F	3.0 F	< 10	2.8 F	3.0 F
Cobalt	NA	2.7 F	< 50	< 50	8.6 F	< 50	NA	< 50	< 50	< 50
Copper	NA	1.6 F	< 10	< 10	5.1 F	1.5 F	NA	2.9 F	< 10	2.2 F
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	NA	< 3.0	< 3.0	< 3.0
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	51	< 15 R	< 15	242	< 15	NA	2.3 F	1.6 F	< 15
Nickel	< 40	194	2.5 F	2.5 F	439	1.3 F	< 40	0.57 F	2.3 F	0.68 F
Selenium	NA	3.3 F	4.1 (a) BF	4.4 (a) BF	< 5.0	< 5.0	NA	< 5.0	5.6 (a) B	< 5.0
Silver	NA	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	3.6 F	7.8 F	7.9 F	1.7 F	12.9 F	NA	6.4 F	7.4 F	10.1 F
Zinc	NA	11.9 F	15.9 F	9.3 F	8.8 F	< 50	NA	12.8 F	5.9 F	6.9 F
USEPA 6020										
Thallium	NA	0.77 F	1.1	0.33 F	0.37 F	0.36 F	NA	0.97 F	0.58 F	0.24 F
USEPA 7470										
Mercury	NA	< 0.20	0.11 (b) BF	0.094 (b) BF	< 0.20	0.083 (c) BF	NA	< 0.20	0.11 (b) BF	< 0.20

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
R - Result in invalid.
RL - Reporting Limit

(a) CCB-11/02/09 contained 4.61 μg/L of selenium.
(b) CCB-11/02/09 contained 0.128 μg/L of mercury.
(c) CCB-10/29/09 contained 0.112 μg/L of mercury.

There were no analytes detected in associated method blanks except as indicated.

TABLE 2-1.10

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	MAFB-400		MAFB-413		MAFB-424		MAFB-439
USEPA 6010							
Antimony	< 60		< 60		< 60		NA
Arsenic	< 5.0		< 5.0		< 5.0		NA
Barium	92.8		72.4		19.3	F	NA
Beryllium	< 3.0		< 3.0		< 3.0		NA
Cadmium	< 5.0		< 5.0		< 5.0		NA
Calcium	NA		NA		NA		NA
Chromium	10.6		5.3	F	3.2	F	NA
Cobalt	< 50		< 50		< 50		NA
Copper	1.1	F	< 10		1.1	F	NA
Iron	NA		NA		NA		NA
Lead	< 3.0		< 3.0		< 3.0		< 3.0
Magnesium	NA		NA		NA		NA
Manganese	6.3	F	< 15		< 15		NA
Nickel	0.68	F	< 40		< 40		NA
Selenium	< 5.0		< 5.0		< 5.0		NA
Silver	< 10		< 10		< 10		NA
Sodium	NA		NA		NA		NA
Vanadium	5.6	F	10.4	F	13.0	F	NA
Zinc	12.1	F	5.2	F	8.1	F	NA
USEPA 6020							
Thallium	0.20	F	0.15	F	0.13	F	NA
USEPA 7470							
Mercury	< 0.20		< 0.20		< 0.20		NA

Notes:
B - Analyte detected in blank.
F - Result below RL.
FD - Field Duplicate
M - Matrix effect present.
μg/L - Micrograms per liter
NA - Not Applicable
R - Result in invalid.
RL - Reporting Limit

(a) CCB-11/02/09 contained 4.61 μg/L of selenium.
(b) CCB-11/02/09 contained 0.128 μg/L of mercury.
(c) CCB-10/29/09 contained 0.112 μg/L of mercury.

There were no analytes detected in associated method blanks except as indicated.

Mather AR # 2970.1 Page 776 of 1088

TABLE 2-1.11

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/15/09 ACW PTE		ACW PTI		ACW PTI (FD)	
USEPA 6010						
Calcium	10100	J	10200	J	10300	J
Copper	1.5	F	1.2	F	1.8	F
Iron	< 70		< 70		< 70	
Magnesium	5230	J	5260	J	5210	J
Manganese	< 15		< 15		< 15	
Sodium	10200	J	10300	J	10500	J
Zinc	13	F	13.1	F	13.5	F

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.12

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (µg/L)	10/15/09 MBS PTE AF		MBS PTI		MBS PTI (FD)	
USEPA 6010						
Antimony	< 60		< 60		< 60	
Arsenic	< 5.0		< 5.0		< 5.0	
Barium	61.6		61.8		64.4	
Beryllium	< 3.0		< 3.0		< 3.0	
Cadmium	< 5.0		< 5.0		< 5.0	
Chromium	4.6	F	4.7	F	4.9	F
Cobalt	< 50		< 50		< 50	
Copper	< 10		< 10		< 10	
Lead	< 3.0		< 3.0		< 3.0	
Manganese	< 15		5.2	F	< 15	
Nickel	< 40		0.52	F	< 40	
Selenium	< 5.0		< 5.0		< 5.0	
Silver	< 10		< 10		< 10	
Vanadium	10.9	F	11.2	F	11.6	F
Zinc	11.7	F	9.4	F	12.8	F
USEPA 6020						
Thallium	0.22	F	0.14	F	0.56	F
USEPA 7470						
Mercury	< 0.20		< 0.20		< 0.20	

Notes:
F - Result below RL.
FD - Field Duplicate
µg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.13

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (μg/L)	10/15/09					
	7-PTE		7-PTI		7-PTI (FD)	
USEPA 6010						
Calcium	33,100	J	34,600	J	35,000	J
Copper	< 10		< 10		< 10	
Iron	< 70		< 70		< 70	
Magnesium	16,400	J	17,300	J	17,300	J
Manganese	< 15		< 15		< 15	
Sodium	16,800	J	17,700	J	17,800	J
Zinc	16.0	F	40.0	F	7.7	F

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
μg/L - Micrograms per liter
RL - Reporting Limit

There were no analytes detected in associated method blanks.

TABLE 2-1.14

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (mg/L)	7-BV-01		7-BV-01 (a)		7-BV-02		7-BV-02 (a)		7-BV-02 (FD)		7-BV-02 (FD) (a)		7-BV-04		7-BV-04 (a)		7-BV-06		7-BV-06 (a)	
SM 2320																				
Total Alkalinity	184		NA		381		NA		394		NA		345		NA		242		NA	
Alkalinity, bicarbonate	184		NA		NA		NA		NA		NA		345		NA		242		NA	
Alkalinity, carbonate	< 1.0		NA		NA		NA		NA		NA		< 1.0		NA		< 1.0		NA	
Alkalinity, hydroxide	< 1.0		NA		NA		NA		NA		NA		< 1.0		NA		< 1.0		NA	
USEPA 130.2																				
Hardness as CaCO3	299		NA		125	J	NA		166	J	NA		493		NA		380		NA	
USEPA 160.1																				
Total Filterable Residue	480		NA		794		NA		765		NA		681		NA		552		NA	
USEPA 300.0																				
Chloride	9.5		NA		10.2		NA		10.0		NA		33.2		NA		24.3		NA	
Nitrate (as N)	5.5		NA		2.6		NA		2.5		NA		3.7		NA		7.9		NA	
Sulfate	167	JM	134		276	JM	227		271	JM	225		178	JM	143		180	JM	145	
USEPA 340.2																				
Fluoride	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
USEPA 376.1																				
Sulfide, total	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
USEPA 7196																				
Hexavalent Chromium	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
mg/L - Milligrams per liter
NA - Not Applicable
R - Result is invalid.
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution

There were no analytes detected in associated method blanks.

Mather AR # 2970.1 Page 780 of 1088

TABLE 2-1.14

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (mg/L)	7-BV-07		7-BV-07 (a)	7-BV-08		7-BV-08 (a)	7-PZ-37P	7-PZ-37P (FD)	MAFB-132		MAFB-133	MAFB-133 (FD)	MAFB-136	
SM 2320														
Total Alkalinity	220		NA	194		NA	NA	NA	239		86.4	86.6	145	
Alkalinity, bicarbonate	NA		NA	NA		NA	NA	NA	NA		NA	NA	NA	
Alkalinity, carbonate	NA		NA	NA		NA	NA	NA	NA		NA	NA	NA	
Alkalinity, hydroxide	NA		NA	NA		NA	NA	NA	NA		NA	NA	NA	
USEPA 130.2														
Hardness as CaCO3	141	J	NA	182	J	NA	NA	NA	NA		NA	NA	NA	
USEPA 160.1														
Total Filterable Residue	556		NA	440		NA	NA	NA	349		161	162	315	
USEPA 300.0														
Chloride	7.1		NA	9.0		NA	NA	NA	38.5		4.4	4.3	43.6	
Nitrate (as N)	7.7		NA	7.3		NA	NA	NA	NA		NA	NA	NA	
Sulfate	211	JM	172	129	JM	109	NA	NA	5.1		10.0	9.9	12.7	
USEPA 340.2														
Fluoride	NA		NA	NA		NA	NA	NA	0.18		0.20	0.19	0.15	
USEPA 376.1														
Sulfide, total	NA		NA	NA		NA	NA	NA	< 0.20	R	< 0.20	< 0.20	< 0.20	R
USEPA 7196														
Hexavalent Chromium	NA		NA	NA		NA	< 0.020	< 0.020	NA		NA	NA	NA	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
mg/L - Milligrams per liter
NA - Not Applicable
R - Result is invalid.
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution

There were no analytes detected in associated method blanks.

Mather AR # 2970.1 Page 781 of 1088

TABLE 2-1.14

ANALYTICAL DATA SUMMARY
MONITORING AND EXTRACTION WELLS
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (mg/L)	MAFB-149	MAFB-284	MAFB-398		MAFB-398C	MAFB-399		MAFB-400		MAFB-413	MAFB-424	
SM 2320												
Total Alkalinity	NA	NA	65.4		64.6	52.0		129		NA	42.6	
Alkalinity, bicarbonate	NA	NA	< 1.0		NA	NA		NA		NA	NA	
Alkalinity, carbonate	NA	NA	< 1.0		NA	NA		NA		NA	NA	
Alkalinity, hydroxide	NA	NA	NA		NA	NA		NA		NA	NA	
USEPA 130.2												
Hardness as CaCO3	NA	NA	NA		NA	NA		NA		NA	NA	
USEPA 160.1												
Total Filterable Residue	NA	NA	159		154	137		261		NA	141	
USEPA 300.0												
Chloride	NA	NA	7.2		8.4	5.3		36.7		NA	3.8	
Nitrate (as N)	NA	NA	NA		NA	NA		NA		NA	NA	
Sulfate	NA	NA	14.5		2.7	4.4		10.8		NA	6.7	M
USEPA 340.2												
Fluoride	NA	NA	0.056	F	0.16	0.15		0.071	F	NA	0.18	
USEPA 376.1												
Sulfide, total	NA	NA	< 0.20	UJ	< 0.20	< 0.20	R	< 0.20		NA	< 0.20	
USEPA 7196												
Hexavalent Chromium	< 0.020	< 0.020	NA		NA	NA		NA		< 0.020	< 0.020	

Notes:
F - Result below RL.
FD - Field Duplicate
J - Result is an estimate.
M - Matrix effect present.
mg/L - Milligrams per liter
NA - Not Applicable
R - Result is invalid.
RL - Reporting Limit
UJ - Result is not detected, but is estimated.

(a) Five fold dilution

There were no analytes detected in associated method blanks.

Mather AR # 2970.1 Page 782 of 1088

TABLE 2-1.15

ANALYTICAL DATA SUMMARY
ACW PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	10/15/09 ACW PTE		ACW PTE (FD)		ACW PTI		ACW PTI (FD)	
SM 2320									
Total Alkalinity	mg/L	48.3		NA		56.2		48.1	
USEPA 130.2									
Hardness as CaCO3	mg/L	72.1	J	NA		40.0	J	52.1	J
USEPA 160.1									
Total Filterable Residue	mg/L	141		NA		116		120	
USEPA 300.0									
Chloride	mg/L	3.4		NA		3.5		3.4	
Nitrate (as N)	mg/L	2.6		NA		2.6		2.6	
Sulfate	mg/L	2.1		NA		2.1		2.1	
USEPA 314.0									
Perchlorate	µg/L	< 3.0		< 3.0		NA		NA	

Notes:
FD - Field Duplicate
J - Result is an estimate.
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Not Applicable

There were no analytes detected in associated method blanks.

Mather AR # 2970.1 Page 783 of 1088

TABLE 2-1.16

ANALYTICAL DATA SUMMARY
MBSAC PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte	Units	10/15/09			
		MBS PTE AF	MBS PTE AF (FD)	MBS PTI	MBS PTI (FD)
SM 2320					
Total Alkalinity	mg/L	97.9	NA	101	94.7
USEPA 130.2					
Hardness as CaCO3	mg/L	88.1	NA	84.8	100
USEPA 160.1					
Total Filterable Residue	mg/L	178	NA	163	169
USEPA 160.2					
Total Suspended Solids	mg/L	< 10	NA	< 10	< 10
USEPA 300.0					
Chloride	mg/L	7.0	NA	7.0	7.0
Nitrate (as N)	mg/L	3.2	NA	3.2	3.2
Sulfate	mg/L	10.2	NA	10.1	10.1
USEPA 314.0					
Perchlorate	µg/L	< 3.0	< 3.0	NA	NA

Notes:
FD - Field Duplicate
µg/L - Micrograms per liter
mg/L - Milligrams per liter
NA - Not Applicable

There were no analytes detected in associated method blanks.

Mather AR # 2970.1 Page 784 of 1088

TABLE 2-1.17

ANALYTICAL DATA SUMMARY
SITE 7 PUMP AND TREAT EFFLUENT/INFLUENT
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analyte (mg/L)	10/15/09		
	7-PTE	7-PTI	7-PTI (FD)
SM 2320			
Total Alkalinity	134	135	140
USEPA 130.2			
Hardness as CaCO3	116	136	132
USEPA 160.1			
Total Filterable Residue	242	241	238
USEPA 300.0			
Chloride	8.9	8.9	8.9
Nitrate (as N)	2.1	2.1	2.1
Sulfate	21.1	20.5	20.5

Notes:
FD - Field Duplicate
mg/L - Milligrams per liter

There were no analytes detected in associated method blanks.

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
7-BV-01	93	yes	94	yes	97	yes	102	yes
7-BV-02	88	yes	96	yes	91	yes	104	yes
7-BV-04	91	yes	97	yes	93	yes	104	yes
7-BV-06	94	yes	94	yes	95	yes	101	yes
7-BV-07	85	yes	94	yes	91	yes	100	yes
7-BV-08	86	yes	96	yes	90	yes	104	yes
7-BV-13	84	yes	94	yes	90	yes	101	yes
7-PTE-10/01/09	100	yes	103	yes	98	yes	100	yes
7-PTE-10/15/09	109	yes	99	yes	108	yes	111	yes
7-PTE-10/29/09	109	yes	88	yes	108	yes	97	yes
7-PTE-11/12/09	97	yes	101	yes	100	yes	108	yes
7-PTE-11/24/09	118	yes	96	yes	109	yes	116	yes
7-PTE-12/10/09	101	yes	98	yes	102	yes	96	yes
7-PTE-12/22/09	92	yes	91	yes	92	yes	94	yes
7-PTI-10/15/09	111	yes	101	yes	107	yes	111	yes
7-PTI-10/15/09 (FD)	108	yes	99	yes	106	yes	109	yes
7-PTI-10/15/09 (MS)	111	yes	101	yes	111	yes	114	yes
7-PTI-10/15/09 (MSD)	115	yes	102	yes	110	yes	114	yes
7-PZ-37P	105	yes	91	yes	107	yes	110	yes
7-PZ-37P (FD)	97	yes	92	yes	101	yes	112	yes
7-PZ-37P (MS)	109	yes	102	yes	113	yes	108	yes
7-PZ-37P (MSD)	108	yes	96	yes	111	yes	104	yes
ACW PTE-10/01/09	101	yes	102	yes	99	yes	101	yes
ACW PTE-10/15/09	109	yes	99	yes	107	yes	110	yes
ACW PTE-10/29/09	112	yes	87	yes	112	yes	95	yes
ACW PTE-11/12/09	102	yes	100	yes	106	yes	106	yes
ACW PTE-11/24/09	116	yes	93	yes	109	yes	111	yes
ACW PTE-12/10/09	99	yes	100	yes	100	yes	97	yes
ACW PTE-12/22/09	89	yes	92	yes	90	yes	94	yes
ACW PTI-10/15/09	107	yes	101	yes	104	yes	111	yes
ACW PTI-10/15/09 (FD)	107	yes	99	yes	107	yes	111	yes
ACW PTI-10/15/09 (MS)	108	yes	102	yes	106	yes	111	yes
ACW PTI-10/15/09 (MSD)	111	yes	102	yes	109	yes	111	yes
ACW PZ-05	119	yes	88	yes	113	yes	97	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
ACW R2	106	yes	102	yes	107	yes	113	yes
FFS EW15-1	108	yes	86	yes	107	yes	96	yes
FFS EW15-2	108	yes	88	yes	108	yes	100	yes
FFS MW15-1	110	yes	90	yes	110	yes	101	yes
FFS MW15-2	108	yes	89	yes	108	yes	97	yes
FFS MW15-3	109	yes	88	yes	110	yes	101	yes
MAFB-044	98	yes	87	yes	100	yes	105	yes
MAFB-132	97	yes	92	yes	101	yes	110	yes
MAFB-133	116	yes	88	yes	110	yes	96	yes
MAFB-133 (FD)	114	yes	87	yes	111	yes	97	yes
MAFB-133 (MS)	112	yes	90	yes	111	yes	97	yes
MAFB-133 (MSD)	109	yes	88	yes	108	yes	95	yes
MAFB-136	95	yes	90	yes	102	yes	110	yes
MAFB-149	117	yes	86	yes	109	yes	95	yes
MAFB-284	98	yes	90	yes	103	yes	108	yes
MAFB-293	111	yes	91	yes	111	yes	102	yes
MAFB-296	94	yes	102	yes	91	yes	95	yes
MAFB-318	93	yes	99	yes	92	yes	103	yes
MAFB-354B	95	yes	102	yes	95	yes	106	yes
MAFB-354D	93	yes	94	yes	95	yes	103	yes
MAFB-378B	117	yes	93	yes	109	yes	103	yes
MAFB-378B (FD)	120	no	87	yes	112	yes	95	yes
MAFB-378D	117	yes	89	yes	114	yes	99	yes
MAFB-378D (MS)	114	yes	91	yes	111	yes	96	yes
MAFB-378D (MSD)	112	yes	92	yes	109	yes	98	yes
MAFB-382B	90	yes	102	yes	88	yes	94	yes
MAFB-388Ds	113	yes	99	yes	111	yes	111	yes
MAFB-397	120	no	90	yes	116	no	96	yes
MAFB-398	94	yes	86	yes	99	yes	110	yes
MAFB-398C	113	yes	87	yes	110	yes	96	yes
MAFB-399	115	yes	89	yes	110	yes	96	yes
MAFB-400	119	yes	89	yes	110	yes	97	yes
MAFB-413	94	yes	90	yes	100	yes	110	yes
MAFB-424	94	yes	87	yes	100	yes	107	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-426	106	yes	100	yes	104	yes	112	yes
MAFB-433	118	yes	86	yes	112	yes	94	yes
MAFB-433 (FD)	109	yes	88	yes	108	yes	97	yes
MAFB-434Bd	113	yes	89	yes	114	yes	98	yes
MAFB-434Bd (FD)	116	yes	85	yes	112	yes	93	yes
MAFB-435	90	yes	96	yes	92	yes	100	yes
MAFB-436	95	yes	89	yes	99	yes	108	yes
MAFB-438	94	yes	87	yes	97	yes	105	yes
MAFB-439	104	yes	101	yes	91	yes	93	yes
MAFB-439 (FD)	86	yes	103	yes	88	yes	99	yes
MAFB-439 (MS)	90	yes	103	yes	90	yes	94	yes
MAFB-439 (MSD)	94	yes	107	yes	90	yes	102	yes
MAFB-441	91	yes	90	yes	94	yes	96	yes
MAFB-442	114	yes	86	yes	111	yes	95	yes
MAFB-443	108	yes	101	yes	107	yes	112	yes
MAFB-444	107	yes	99	yes	105	yes	110	yes
MAFB-445	109	yes	100	yes	105	yes	110	yes
MAFB-446	111	yes	104	yes	108	yes	114	yes
MAFB-446 (FD)	108	yes	103	yes	108	yes	112	yes
MAFB-447	110	yes	101	yes	108	yes	111	yes
MAFB-448	111	yes	99	yes	108	yes	111	yes
MAFB-449Bd	106	yes	103	yes	104	yes	116	yes
MAFB-449Bs	106	yes	104	yes	105	yes	115	yes
MAFB-450	115	yes	87	yes	109	yes	96	yes
MAFB-451	93	yes	85	yes	96	yes	92	yes
MAFB-452B	94	yes	94	yes	98	yes	102	yes
MAFB-452Bu	99	yes	91	yes	99	yes	96	yes
MAFB-453	114	yes	88	yes	110	yes	97	yes
MAFB-453C	115	yes	91	yes	109	yes	98	yes
MAFB-454	109	yes	89	yes	108	yes	99	yes
MAFB-454C	112	yes	86	yes	110	yes	96	yes
MAFB-455	110	yes	91	yes	109	yes	102	yes
MAFB-456	111	yes	86	yes	108	yes	97	yes
MAFB-456C	110	yes	89	yes	107	yes	99	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
MAFB-457Bd	112	yes	90	yes	111	yes	103	yes
MAFB-457Bs	105	yes	103	yes	104	yes	114	yes
MAFB-457Bs (FD)	108	yes	100	yes	107	yes	112	yes
MAFB-458Bd	108	yes	99	yes	104	yes	112	yes
MAFB-458Bs	107	yes	88	yes	107	yes	97	yes
MAFB-459D	88	yes	94	yes	91	yes	98	yes
MAFB-459Dd	86	yes	96	yes	88	yes	100	yes
MAFB-460Bd	100	yes	98	yes	97	yes	113	yes
MAFB-460Bs	101	yes	92	yes	98	yes	106	yes
MAFB-461Bd	104	yes	83	yes	105	yes	113	yes
MAFB-461Bs	95	yes	89	yes	100	yes	117	yes
MBS EW-13BuB	109	yes	103	yes	110	yes	113	yes
MBS PTE AF-10/01/09	98	yes	101	yes	99	yes	98	yes
MBS PTE AF-10/15/09	108	yes	101	yes	107	yes	113	yes
MBS PTE AF-10/29/09	117	yes	88	yes	114	yes	99	yes
MBS PTE AF-11/12/09	99	yes	98	yes	104	yes	106	yes
MBS PTE AF-11/24/09	106	yes	94	yes	98	yes	91	yes
MBS PTE AF-12/10/09	101	yes	97	yes	100	yes	94	yes
MBS PTE AF-12/22/09	94	yes	90	yes	96	yes	94	yes
MBS PTI-10/15/09	111	yes	102	yes	109	yes	111	yes
MBS PTI-10/15/09 (FD)	114	yes	103	yes	111	yes	112	yes
MBS PTI-10/15/09 (MS)	114	yes	104	yes	112	yes	113	yes
MBS PTI-10/15/09 (MSD)	111	yes	103	yes	107	yes	111	yes
OFB-72	90	yes	88	yes	97	yes	98	yes
OFB-80	95	yes	87	yes	99	yes	93	yes
OFB-85	94	yes	87	yes	96	yes	95	yes
TB-10/01/09	97	yes	99	yes	101	yes	99	yes
TB-10/12/09	106	yes	99	yes	106	yes	109	yes
TB-10/15/09	109	yes	100	yes	104	yes	108	yes
TB-10/19/09	90	yes	101	yes	93	yes	100	yes
TB-10/21/09	114	yes	88	yes	111	yes	100	yes
TB-10/22/09	115	yes	91	yes	111	yes	105	yes
TB-10/23/09	108	yes	86	yes	106	yes	96	yes
TB-10/26/09	108	yes	86	yes	106	yes	98	yes

TABLE 2-2.1

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability	Surrogate (c)	Accuracy Acceptability	Surrogate (d)	Accuracy Acceptability
TB-10/27/09	113	yes	86	yes	109	yes	96	yes
TB-10/28/09	93	yes	84	yes	96	yes	90	yes
TB-10/29/09	94	yes	106	yes	90	yes	99	yes
TB-11/12/09	95	yes	97	yes	104	yes	106	yes
TB-11/24/09	93	yes	89	yes	97	yes	114	yes
TB-11/30/09	99	yes	96	yes	98	yes	117	yes
TB-12/01/09	93	yes	86	yes	98	yes	116	yes
TB-12/10/09	100	yes	98	yes	101	yes	95	yes
TB-12/22/09	92	yes	93	yes	94	yes	95	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 1,2-Dichloroethane-d4 (control limits: 72-119%)
(b) 4-Bromofluorobenzene (control limits: 76-119%)
(c) Dibromofluoromethane (control limits: 85-115%)
(d) Toluene-d8 (control limits: 81-120%)

Shaded data indicate nonconformances with project control limits.

TABLE 2-2.2

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
MAFB-271	84	yes	94	yes
MAFB-319	81	yes	88	yes
MAFB-319 (FD)	78	yes	84	yes
MAFB-321	83	yes	86	yes
MAFB-322	86	yes	96	yes
MAFB-324	79	yes	93	yes
MAFB-324 (FD)	80	yes	88	yes
MAFB-324 (MS)	86	yes	91	yes
MAFB-324 (MSD)	98	yes	107	yes
MAFB-326	86	yes	89	yes
MAFB-328	80	yes	90	yes
MAFB-330	98	yes	94	yes
MAFB-336	90	yes	90	yes
MAFB-337	82	yes	88	yes
MAFB-338	78	yes	91	yes
OFB-04-10/27/09	105	yes	103	yes
OFB-04-11/24/09	89	yes	80	yes
OFB-04-12/29/09	100	yes	97	yes
OFB-04M-10/27/09	101	yes	102	yes
OFB-04M-11/24/09	94	yes	94	yes
OFB-04M-12/29/09	99	yes	98	yes
OFB-27	96	yes	93	yes
OFB-27 (FD)	90	yes	96	yes
OFB-27 (MS)	107	yes	95	yes
OFB-27 (MSD)	101	yes	96	yes
OFB-31	92	yes	100	yes
OFB-32	108	yes	107	yes
OFB-49	107	yes	95	yes
OFB-51	86	yes	93	yes
OFB-51/52I-10/27/09	88	yes	96	yes
OFB-51/52I-11/24/09	93	yes	87	yes
OFB-51/52I-12/29/09	96	yes	94	yes
OFB-51/52M-10/27/09	102	yes	103	yes
OFB-51/52M-11/24/09	87	yes	94	yes
OFB-51/52M-12/29/09	97	yes	100	yes
OFB-52	84	yes	95	yes
OFB-52 (FD)	95	yes	99	yes
OFB-54	118	yes	108	yes
OFB-55	113	yes	109	yes
OFB-56	110	yes	104	yes
TB-10/12/09	90	yes	89	yes
TB-10/14/09	83	yes	94	yes
TB-10/27/09	102	yes	99	yes
TB-11/24/09	93	yes	95	yes
TB-12/29/09	94	yes	97	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 1,2-Dichloroethane-d4 (control limits: 50-150%)
(b) 4-Bromofluorobenzene (control limits: 50-150%)

TABLE 2-2.3

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability
7-BV-13	108	yes
7-PTE-10/01/09	93	yes
7-PTE-10/15/09	96	yes
7-PTE-10/29/09	91	yes
7-PTE-11/12/09	92	yes
7-PTE-11/24/09	88	yes
7-PTE-12/10/09	95	yes
7-PTE-12/22/09	102	yes
7-PTI-10/15/09	96	yes
7-PTI-10/15/09 (FD)	93	yes
7-PTI-10/15/09 (MS)	98	yes
7-PTI-10/15/09 (MSD)	103	yes
7-PZ-37P	103	yes
7-PZ-37P (FD)	101	yes
7-PZ-37P (MS)	105	yes
7-PZ-37P (MSD)	111	yes
MAFB-149	100	yes
MAFB-284	101	yes
MAFB-413	101	yes
MAFB-419	104	yes
MAFB-436	87	yes
MAFB-439	106	yes
MBS PTE AF-10/15/09	95	yes
MBS PTI-10/15/09	99	yes
MBS PTI-10/15/09 (FD)	89	yes
MBS PTI-10/15/09 (MS)	98	yes
MBS PTI-10/15/09 (MSD)	96	yes
TB-10/01/09	93	yes
TB-10/15/09	102	yes
TB-10/21/09	108	yes
TB-10/22/09	103	yes
TB-10/26/09	104	yes
TB-10/29/09	97	yes
TB-11/12/09	89	yes
TB-11/24/09	87	yes
TB-12/01/09	87	yes
TB-12/10/09	94	yes
TB-12/22/09	101	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

(a) 4-Bromofluorobenzene (control limits: 75-125%)

TABLE 2-2.4

SURROGATE PERCENT RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Surrogate (a)	Accuracy Acceptability	Surrogate (b)	Accuracy Acceptability
7-BV-13	91	yes	66	yes
7-PTE-10/15/09	88	yes	59	yes
7-PTI-10/15/09	85	yes	60	yes
7-PTI-10/15/09 (FD)	103	yes	77	yes
7-PTI-10/15/09 (MS)	113	yes	112	yes
7-PTI-10/15/09 (MSD)	104	yes	95	yes
7-PZ-37P	87	yes	64	yes
7-PZ-37P (FD)	92	yes	70	yes
7-PZ-37P (MS)	60	yes	95	yes
7-PZ-37P (MSD)	99	yes	82	yes
ACW PTE-10/15/09	100	yes	72	yes
ACW PTE-10/15/09 (FD)	94	yes	66	yes
ACW PTE-10/15/09 (MS)	100	yes	86	yes
ACW PTE-10/15/09 (MSD)	104	yes	93	yes
MAFB-044	86	yes	66	yes
MAFB-149	107	yes	80	yes
MAFB-284	100	yes	94	yes
MAFB-413	97	yes	73	yes
MAFB-419	85	yes	73	yes
MAFB-436	87	yes	84	yes
MAFB-439	86	yes	71	yes
MBS PTE AF-10/15/09	81	yes	64	yes
MBS PTI-10/15/09	88	yes	65	yes
MBS PTI-10/15/09 (FD)	80	yes	67	yes
MBS PTI-10/15/09 (MS)	100	yes	85	yes
MBS PTI-10/15/09 (MSD)	99	yes	86	yes

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

3.0 CROSS-REFERENCE TABLE

The table presented in this section (Table 3-1) corresponds to Table A-5 of the Handbook (Appendix A, Tab 6). Table 3-1 provides a cross-reference between laboratory sample and field sample identifications.

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
ACW PTE	ACW PTE	AY04741	10/01/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AY04742	10/01/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY04743	10/01/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY04744	10/01/09	001A	Pump and Treat Effluent
TB-10/01/09	7-PTT	AY04745	10/01/09	001A	Trip Blank
MAFB-388Ds	MAFB-388(Ds)DF	AY05689	10/12/09	001A	Groundwater
MAFB-426	MAFB-426DF	AY05690	10/12/09	001A	Groundwater
MAFB-443	MAFB-443DF	AY05691	10/12/09	001A	Groundwater
MAFB-449Bd	MAFB-449(Bd)DF	AY05692	10/12/09	001A	Groundwater
MAFB-457Bs	MAFB-457(Bs)DF	AY05693	10/12/09	001A	Groundwater
MAFB-458Bd	MAFB-458(Bd)DF	AY05694	10/12/09	001A	Groundwater
MAFB-457Bs (FD)	MAFB-900	AY05695	10/12/09	001A	Field Duplicate
TB-10/12/09	MBS-MW-13	AY05696	10/12/09	001A	Trip Blank
MAFB-444	MAFB-444DF	AY05697	10/12/09	001A	Groundwater
MAFB-445	MAFB-445DF	AY05698	10/12/09	001A	Groundwater
MAFB-446	MAFB-446DF	AY05699	10/12/09	001A	Groundwater
MAFB-447	MAFB-447DF	AY05700	10/12/09	001A	Groundwater
MAFB-448	MAFB-448DF	AY05701	10/12/09	001A	Groundwater
MAFB-446 (FD)	MAFB-908	AY05702	10/12/09	001A	Field Duplicate
MAFB-330	MAFB-330DF	AY05703	10/12/09	001A	Groundwater
MAFB-336	MAFB-336DF	AY05704	10/12/09	001A	Groundwater
TB-10/12/09	OFB-MW-2	AY05705	10/12/09	001A	Trip Blank
MAFB-449Bs	MAFB-449(Bs)DF	AY05758	10/13/09	000A	Groundwater
MAFB-271	MAFB-271	AY05827	10/14/09	001A	Groundwater
MAFB-319	MAFB-319DF	AY05828	10/14/09	001A	Groundwater
MAFB-321	MAFB-321DF	AY05829	10/14/09	001A	Groundwater
MAFB-322	MAFB-322	AY05830	10/14/09	001A	Groundwater
MAFB-324	MAFB-324	AY05831	10/14/09	001A	Groundwater
MAFB-324 (MS)	MAFB-324	AY05831	10/14/09	001A	Matrix Spike
MAFB-324 (MSD)	MAFB-324	AY05831	10/14/09	001A	Matrix Spike Duplicate
MAFB-326	MAFB-326	AY05832	10/14/09	001A	Groundwater
MAFB-328	MAFB-328DF	AY05833	10/14/09	001A	Groundwater
MAFB-337	MAFB-337	AY05834	10/14/09	001A	Groundwater
MAFB-338	MAFB-338DF	AY05835	10/14/09	001A	Groundwater
MAFB-319 (FD)	MAFB-911	AY05836	10/14/09	001A	Field Duplicate
MAFB-324 (FD)	MAFB-918	AY05837	10/14/09	001A	Field Duplicate
TB-10/14/09	OFB-MW-1	AY05838	10/14/09	001A	Trip Blank
7-PTE	7-PTE	AY05977	10/15/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AY05978	10/15/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AY05979	10/15/09	001A	Pump and Treat Effluent
ACW PTI (FD)	ACW AS	AY06007	10/15/09	001A	Field Duplicate
ACW PTE (FD)	ACW PTD	AY06008	10/15/09	001A	Field Duplicate
ACW PTE	ACW PTE	AY06009	10/15/09	001A	Pump and Treat Effluent
ACW PTE (MS)	ACW PTE	AY06009	10/15/09	001A	Matrix Spike
ACW PTE (MSD)	ACW PTE	AY06009	10/15/09	001A	Matrix Spike Duplicate
ACW PTI	ACW PTI	AY06010	10/15/09	001A	Pump and Treat Influent
ACW PTI (MS)	ACW PTI	AY06010	10/15/09	001A	Matrix Spike
ACW PTI (MSD)	ACW PTI	AY06010	10/15/09	001A	Matrix Spike Duplicate
ACW R2	ACW R2	AY06011	10/15/09	001A	Groundwater
7-PTI (FD)	7-AS	AY06012	10/15/09	001A	Field Duplicate
7-PTE	7-PTE	AY06013	10/15/09	001A	Pump and Treat Effluent
7-PTI	7-PTI	AY06014	10/15/09	001A	Pump and Treat Influent

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
7-PTI (MS)	7-PTI	AY06014	10/15/09	001A	Matrix Spike
7-PTI (MSD)	7-PTI	AY06014	10/15/09	001A	Matrix Spike Duplicate
MBS PTI (FD)	MBS AS	AY06015	10/15/09	001A	Field Duplicate
MBS EW-13BuB	MBS EW-13Bu/B	AY06016	10/15/09	001A	Groundwater
MBS PTE AF (FD)	MBS PTA	AY06017	10/15/09	001A	Field Duplicate
MBS PTE AF	MBS PTE AF	AY06018	10/15/09	001A	Pump and Treat Effluent
MBS PTE AF (DUP)	MBS PTE AF	AY06018	10/15/09	001A	Laboratory Duplicate
MBS PTE AF (MS)	MBS PTE AF	AY06018	10/15/09	001A	Matrix Spike
MBS PTE AF (MSD)	MBS PTE AF	AY06018	10/15/09	001A	Matrix Spike Duplicate
MBS PTI	MBS PTI	AY06019	10/15/09	001A	Pump and Treat Influent
MBS PTI (DUP)	MBS PTI	AY06019	10/15/09	001A	Laboratory Duplicate
MBS PTI (MS)	MBS PTI	AY06019	10/15/09	001A	Matrix Spike
MBS PTI (MSD)	MBS PTI	AY06019	10/15/09	001A	Matrix Spike Duplicate
TB-10/15/09	MBS PTT	AY06020	10/15/09	001A	Trip Blank
7-BV-01	7-BV-01	AY06233	10/19/09	001A	Groundwater
7-BV-01 (MS)	7-BV-01	AY06233	10/19/09	001A	Matrix Spike
7-BV-01 (MSD)	7-BV-01	AY06233	10/19/09	001A	Matrix Spike Duplicate
7-BV-01 (RE)	7-BV-01	AY06233	10/19/09	001A	Groundwater
7-BV-04	7-BV-04	AY06234	10/19/09	001A	Groundwater
7-BV-04 (RE)	7-BV-04	AY06234	10/19/09	001A	Groundwater
7-BV-06	7-BV-06	AY06235	10/19/09	001A	Groundwater
7-BV-06 (RE)	7-BV-06	AY06235	10/19/09	001A	Groundwater
MAFB-318	MAFB-318	AY06240	10/19/09	001A	Groundwater
MAFB-354B	MAFB-354(B)	AY06241	10/19/09	001A	Groundwater
MAFB-354D	MAFB-354(D)	AY06242	10/19/09	001A	Groundwater
MAFB-435	MAFB-435DF	AY06243	10/19/09	001A	Groundwater
MAFB-459D	MAFB-459(D)DF	AY06244	10/19/09	001A	Groundwater
MAFB-459Dd	MAFB-459(Dd)DF	AY06245	10/19/09	001A	Groundwater
TB-10/19/09	MBS-MW-5	AY06246	10/19/09	001A	Trip Blank
7-BV-02	7-BV-02	AY06496	10/21/09	001A	Groundwater
7-BV-02 (MS)	7-BV-02	AY06496	10/21/09	001A	Matrix Spike
7-BV-02 (MSD)	7-BV-02	AY06496	10/21/09	001A	Matrix Spike Duplicate
7-BV-02 (RE)	7-BV-02	AY06496	10/21/09	001A	Groundwater
7-BV-07	7-BV-07	AY06497	10/21/09	001A	Groundwater
7-BV-07 (RE)	7-BV-07	AY06497	10/21/09	001A	Groundwater
7-BV-08	7-BV-08	AY06498	10/21/09	001A	Groundwater
7-BV-08 (RE)	7-BV-08	AY06498	10/21/09	001A	Groundwater
7-BV-13	7-BV-13	AY06499	10/21/09	001A	Groundwater
7-PZ-37P	7-PZ-37(P)	AY06500	10/21/09	001A	Groundwater
7-PZ-37P (MS)	7-PZ-37(P)	AY06500	10/21/09	001A	Matrix Spike
7-PZ-37P (MSD)	7-PZ-37(P)	AY06500	10/21/09	001A	Matrix Spike Duplicate
TB-10/21/09	LF-MW-1	AY06501	10/21/09	001A	Trip Blank
MAFB-044	MAFB-044	AY06502	10/21/09	001A	Groundwater
MAFB-284	MAFB-284	AY06503	10/21/09	001A	Groundwater
7-BV-02 (FD)	MAFB-951	AY06504	10/21/09	001A	Field Duplicate
7-BV-02 (FD)(RE)	MAFB-951	AY06504	10/21/09	001A	Field Duplicate
7-PZ-37P (FD)	MAFB-954	AY06505	10/21/09	001A	Field Duplicate
TB-10/22/09	LF-MW-2	AY06603	10/22/09	001A	Trip Blank
MAFB-132	MAFB-132L	AY06604	10/22/09	001A	Groundwater
MAFB-136	MAFB-136L	AY06605	10/22/09	001A	Groundwater
MAFB-149	MAFB-149	AY06606	10/22/09	001A	Groundwater
MAFB-399	MAFB-399	AY06607	10/22/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 5)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-400	MAFB-400	AY06608	10/22/09	001A	Groundwater
MAFB-413	MAFB-413	AY06609	10/22/09	001A	Groundwater
MAFB-424	MAFB-424	AY06610	10/22/09	001A	Groundwater
MAFB-438	MAFB-438DF	AY06611	10/22/09	001A	Groundwater
ACW PZ-05	ACW PZ-05DF	AY06735	10/23/09	001A	Groundwater
MAFB-433	MAFB-433DF	AY06736	10/23/09	001A	Groundwater
MAFB-453C	MAFB-453(C)DF	AY06737	10/23/09	001A	Groundwater
MAFB-453	MAFB-453DF	AY06738	10/23/09	001A	Groundwater
MAFB-454C	MAFB-454(C)DF	AY06739	10/23/09	001A	Groundwater
MAFB-454	MAFB-454DF	AY06740	10/23/09	001A	Groundwater
MAFB-455	MAFB-455DF	AY06741	10/23/09	001A	Groundwater
MAFB-456C	MAFB-456(C)DF	AY06742	10/23/09	001A	Groundwater
MAFB-456	MAFB-456DF	AY06743	10/23/09	001A	Groundwater
MAFB-433 (FD)	MAFB-942	AY06744	10/23/09	001A	Field Duplicate
FFS EW15-1	FFS-EW-15-1DF	AY06745	10/23/09	001A	Groundwater
FFS EW15-2	FFS-EW-15-2DF	AY06746	10/23/09	001A	Groundwater
FFS MW15-1	FFS-MW-15-1DF	AY06747	10/23/09	001A	Groundwater
FFS MW15-2	FFS-MW-15-2DF	AY06748	10/23/09	001A	Groundwater
FFS MW15-3	FFS-MW-15-3DF	AY06749	10/23/09	001A	Groundwater
MAFB-293	MAFB-293	AY06750	10/23/09	001A	Groundwater
MAFB-457Bd	MAFB-457(Bd)DF	AY06751	10/23/09	001A	Groundwater
MAFB-458Bs	MAFB-458(Bs)DF	AY06752	10/23/09	001A	Groundwater
TB-10/23/09	MBS-MW-4	AY06753	10/23/09	001A	Trip Blank
MAFB-111	MAFB-111	AY06871	10/26/09	001A	Groundwater
MAFB-129	MAFB-129	AY06872	10/26/09	001A	Groundwater
MAFB-288	MAFB-288	AY06873	10/26/09	001A	Groundwater
MAFB-378B	MAFB-378(B)DF	AY06874	10/26/09	001A	Groundwater
MAFB-378D	MAFB-378(D)DF	AY06875	10/26/09	001A	Groundwater
MAFB-378D (MS)	MAFB-378(D)DF	AY06875	10/26/09	001A	Matrix Spike
MAFB-378D (MSD)	MAFB-378(D)DF	AY06875	10/26/09	001A	Matrix Spike Duplicate
MAFB-397	MAFB-397DF	AY06876	10/26/09	001A	Groundwater
MAFB-419	MAFB-419	AY06877	10/26/09	001A	Groundwater
MAFB-434Bd	MAFB-434(Bd)DF	AY06878	10/26/09	001A	Groundwater
MAFB-442	MAFB-442DF	AY06879	10/26/09	001A	Groundwater
MAFB-450	MAFB-450DF	AY06880	10/26/09	001A	Groundwater
MAFB-378B (FD)	MAFB-934	AY06881	10/26/09	001A	Field Duplicate
MAFB-434Bd (FD)	MAFB-958	AY06882	10/26/09	001A	Field Duplicate
TB-10/26/09	MBS-MW-1	AY06883	10/26/09	001A	Trip Blank
TB-10/27/09	LF-MW-6	AY06960	10/27/09	001A	Trip Blank
MAFB-133	MAFB-133L	AY06961	10/27/09	001A	Groundwater
MAFB-133 (MS)	MAFB-133L	AY06961	10/27/09	001A	Matrix Spike
MAFB-133 (MSD)	MAFB-133L	AY06961	10/27/09	001A	Matrix Spike Duplicate
MAFB-398C	MAFB-398(C)	AY06962	10/27/09	001A	Groundwater
MAFB-398C (RE)	MAFB-398(C)	AY06962	10/27/09	001A	Groundwater
MAFB-133 (FD)	MAFB-948	AY06963	10/27/09	001A	Field Duplicate
MAFB-133 (FD)(RE)	MAFB-948	AY06963	10/27/09	001A	Field Duplicate
OFB-51/52M	JH MID-GAC	AY06964	10/27/09	001A	Mid-GAC
OFB-04M	MOONBEAM MID-GAC	AY06965	10/27/09	001A	Mid-GAC
OFB-31	GOULD	AY06966	10/27/09	001A	Groundwater
OFB-51/52I	JH INFLUENT	AY06967	10/27/09	001A	GAC Influent
OFB-51	JH1	AY06968	10/27/09	001A	Groundwater
OFB-52	JH2	AY06969	10/27/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 5)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
OFB-27 (FD)	MAFB-926	AY06970	10/27/09	001A	Field Duplicate
OFB-52 (FD)	MAFB-927	AY06971	10/27/09	001A	Field Duplicate
OFB-27	MARS	AY06972	10/27/09	001A	Groundwater
OFB-27 (MS)	MARS	AY06972	10/27/09	001A	Matrix Spike
OFB-27 (MSD)	MARS	AY06972	10/27/09	001A	Matrix Spike Duplicate
OFB-04	MOONBEAM INFLUENT	AY06973	10/27/09	001A	GAC Influent
OFB-32	NUT PLAINS	AY06974	10/27/09	001A	Groundwater
OFB-49	OAKEN BUCKET	AY06975	10/27/09	001A	Groundwater
TB-10/27/09	OFB-MW-3	AY06976	10/27/09	001A	Trip Blank
OFB-54	SOUTH PORT	AY06977	10/27/09	001A	Groundwater
OFB-56	TALLYHO #2	AY06978	10/27/09	001A	Groundwater
OFB-55	WESTPORTER	AY06979	10/27/09	001A	Groundwater
MAFB-441	MAFB-441DF	AY07054	10/28/09	001A	Groundwater
MAFB-451	MAFB-451DF	AY07055	10/28/09	001A	Groundwater
MAFB-452B	MAFB-452(B)DF	AY07056	10/28/09	001A	Groundwater
MAFB-452Bu	MAFB-452(Bu)DF	AY07057	10/28/09	001A	Groundwater
TB-10/28/09	MBS-MW-3	AY07058	10/28/09	001A	Trip Blank
OFB-72	OFB-72	AY07059	10/28/09	001A	Groundwater
OFB-80	OFB-80	AY07060	10/28/09	001A	Groundwater
OFB-85	OFB-85	AY07061	10/28/09	001A	Groundwater
MBS PTE AF	MBS PTE AF	AY07214	10/29/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AY07215	10/29/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY07216	10/29/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY07217	10/29/09	001A	Pump and Treat Effluent
TB-10/29/09	7-PTT	AY07218	10/29/09	001A	Trip Blank
MAFB-296	MAFB-296DF	AY07219	10/29/09	001A	Groundwater
MAFB-382B	MAFB-382(B)DF	AY07220	10/29/09	001A	Groundwater
MAFB-439	MAFB-439	AY07221	10/29/09	001A	Groundwater
MAFB-439 (MS)	MAFB-439	AY07221	10/29/09	001A	Matrix Spike
MAFB-439 (MSD)	MAFB-439	AY07221	10/29/09	001A	Matrix Spike Duplicate
MAFB-439 (FD)	MAFB-964	AY07222	10/29/09	001A	Field Duplicate
ACW PTE	ACW PTE	AY07812	11/12/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY07813	11/12/09	001A	Pump and Treat Effluent
MBS PTE AF	MBS PTE AF	AY07814	11/12/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY07815	11/12/09	001A	Pump and Treat Effluent
TB-11/12/09	7-PTT	AY07816	11/12/09	001A	Trip Blank
OFB-51/52M	JH MID-GAC	AY08275	11/24/09	001A	Mid-GAC
OFB-04M	MOONBEAM MID-GAC	AY08276	11/24/09	001A	Mid-GAC
OFB-51/52I	JH INFLUENT	AY08277	11/24/09	001A	GAC Influent
OFB-04	MOONBEAM INFLUENT	AY08278	11/24/09	001A	GAC Influent
TB-11/24/09	OFB-MW-1	AY08279	11/24/09	001A	Trip Blank
MBS PTE AF	MBS PTE AF	AY08280	11/24/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AY08281	11/24/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY08282	11/24/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY08283	11/24/09	001A	Pump and Treat Effluent
TB-11/24/09	7-PTT	AY08284	11/24/09	001A	Trip Blank
MAFB-460Bd	MAFB-460(Bd)	AY08329	11/30/09	001A	Groundwater
MAFB-460Bs	MAFB-460(Bs)	AY08330	11/30/09	001A	Groundwater
TB-11/30/09	MBS-MW-3	AY08331	11/30/09	001A	Trip Blank
MAFB-398	MAFB-398	AY08355	12/01/09	001A	Groundwater
MAFB-436	MAFB-436	AY08356	12/01/09	001A	Groundwater
MAFB-461Bd	MAFB-461(Bd)	AY08357	12/01/09	001A	Groundwater

TABLE 3-1

FIELD AND LABORATORY SAMPLE IDENTIFICATION CROSS-REFERENCE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 5)

ERPIMS Identification	Field Identification	Laboratory Sample Identification	Date Sampled	Field Batch Identification (a)	Sample Type
MAFB-461Bs	MAFB-461(Bs)	AY08358	12/01/09	001A	Groundwater
TB-12/01/09	MBS-MW-1	AY08359	12/01/09	001A	Trip Blank
MBS PTE AF	MBS PTE AF	AY08895	12/10/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AY08896	12/10/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY08897	12/10/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY08898	12/10/09	001A	Pump and Treat Effluent
TB-12/10/09	7-PTT	AY08899	12/10/09	001A	Trip Blank
MBS PTE AF	MBS PTE AF	AY09382	12/22/09	001A	Pump and Treat Effluent
ACW PTE	ACW PTE	AY09383	12/22/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY09384	12/22/09	001A	Pump and Treat Effluent
7-PTE	7-PTE	AY09385	12/22/09	001A	Pump and Treat Effluent
TB-12/22/09	7-PTT	AY09386	12/22/09	001A	Trip Blank
OFB-51/52M	JH MID-GAC	AY09455	12/29/09	001A	Mid-GAC
OFB-04M	MOONBEAM MID-GAC	AY09456	12/29/09	001A	Mid-GAC
OFB-51/52I	JH INFLUENT	AY09457	12/29/09	001A	GAC Influent
OFB-04	MOONBEAM INFLUENT	AY09458	12/29/09	001A	GAC Influent
TB-12/29/09	OFB-MW-1	AY09459	12/29/09	001A	Trip Blank

Notes:
DUP - Laboratory Duplicate
FD - Field Duplicate
GAC - Granulated Activated Carbon
Mid-GAC - Between GAC Canisters
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RE - Sample Reanalysis
TB - Trip Blank

(a) Field Batch Identification corresponds to the ERPIMS Field LOTCTLNUM.

Trip blanks in the ERPIMS Identification column have been named as follows: TB - (date of collection).

4.0 HOLDING TIMES

The tables presented in this section correspond to Table A-6 of the Handbook (Appendix A, Tab 6). This Summary of Extraction and Analysis Dates is divided into 10 tables grouped by method (Tables 4-1.1 through 4-1.10).

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 4)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
7-BV-01	10/19/09	10/24/09	10/24/09
7-BV-02	10/21/09	10/25/09	10/25/09
7-BV-04	10/19/09	10/24/09	10/24/09
7-BV-06	10/19/09	10/24/09	10/24/09
7-BV-07	10/21/09	10/25/09	10/25/09
7-BV-08	10/21/09	10/25/09	10/25/09
7-BV-13	10/21/09	10/25/09	10/25/09
7-PTE	10/01/09	10/02/09	10/02/09
7-PTE	10/15/09	10/16/09	10/16/09
7-PTE	10/29/09	11/03/09	11/03/09
7-PTE	11/12/09	11/13/09	11/13/09
7-PTE	11/24/09	12/02/09	12/02/09
7-PTE	12/10/09	12/12/09	12/12/09
7-PTE	12/22/09	12/24/09	12/24/09
7-PTI	10/15/09	10/17/09	10/17/09
7-PTI (FD)	10/15/09	10/17/09	10/17/09
7-PTI (MS)	10/15/09	10/17/09	10/17/09
7-PTI (MSD)	10/15/09	10/17/09	10/17/09
7-PZ-37P	10/21/09	10/30/09	10/30/09
7-PZ-37P (FD)	10/21/09	10/30/09	10/30/09
7-PZ-37P (MS)	10/21/09	10/31/09	10/31/09
7-PZ-37P (MSD)	10/21/09	10/31/09	10/31/09
ACW PTE	10/01/09	10/02/09	10/02/09
ACW PTE	10/15/09	10/16/09	10/16/09
ACW PTE	10/29/09	11/03/09	11/03/09
ACW PTE	11/12/09	11/13/09	11/13/09
ACW PTE	11/24/09	12/02/09	12/02/09
ACW PTE	12/10/09	12/12/09	12/12/09
ACW PTE	12/22/09	12/24/09	12/24/09
ACW PTI	10/15/09	10/16/09	10/16/09
ACW PTI (FD)	10/15/09	10/16/09	10/16/09
ACW PTI (MS)	10/15/09	10/17/09	10/17/09
ACW PTI (MSD)	10/15/09	10/17/09	10/17/09
ACW PZ-05	10/23/09	11/02/09	11/02/09
ACW R2	10/15/09	10/16/09	10/16/09
FFS EW15-1	10/23/09	11/02/09	11/02/09
FFS EW15-2	10/23/09	11/03/09	11/03/09
FFS MW15-1	10/23/09	11/03/09	11/03/09
FFS MW15-2	10/23/09	11/03/09	11/03/09
FFS MW15-3	10/23/09	11/03/09	11/03/09
MAFB-044	10/21/09	10/30/09	10/30/09
MAFB-132	10/22/09	10/30/09	10/30/09
MAFB-133	10/27/09	11/03/09	11/03/09
MAFB-133 (FD)	10/27/09	11/03/09	11/03/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 4)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-133 (MS)	10/27/09	11/04/09	11/04/09
MAFB-133 (MSD)	10/27/09	11/04/09	11/04/09
MAFB-136	10/22/09	10/30/09	10/30/09
MAFB-149	10/22/09	11/02/09	11/02/09
MAFB-284	10/21/09	10/30/09	10/30/09
MAFB-293	10/23/09	11/03/09	11/03/09
MAFB-296	10/29/09	11/07/09	11/07/09
MAFB-318	10/19/09	10/24/09	10/24/09
MAFB-354B	10/19/09	10/24/09	10/24/09
MAFB-354D	10/19/09	10/24/09	10/24/09
MAFB-378B	10/26/09	11/06/09	11/06/09
MAFB-378B (FD)	10/26/09	11/03/09	11/03/09
MAFB-378D	10/26/09	11/03/09	11/03/09
MAFB-378D (MS)	10/26/09	11/03/09	11/03/09
MAFB-378D (MSD)	10/26/09	11/03/09	11/03/09
MAFB-382B	10/29/09	11/07/09	11/07/09
MAFB-388Ds	10/12/09	10/16/09	10/16/09
MAFB-397	10/26/09	11/03/09	11/03/09
MAFB-398	12/01/09	12/04/09	12/04/09
MAFB-398C	10/27/09	11/03/09	11/03/09
MAFB-399	10/22/09	11/02/09	11/02/09
MAFB-400	10/22/09	11/02/09	11/02/09
MAFB-413	10/22/09	10/30/09	10/30/09
MAFB-424	10/22/09	10/30/09	10/30/09
MAFB-426	10/12/09	10/16/09	10/16/09
MAFB-433	10/23/09	11/02/09	11/02/09
MAFB-433 (FD)	10/23/09	11/02/09	11/02/09
MAFB-434Bd	10/26/09	11/03/09	11/03/09
MAFB-434Bd (FD)	10/26/09	11/03/09	11/03/09
MAFB-435	10/19/09	10/25/09	10/25/09
MAFB-436	12/01/09	12/04/09	12/04/09
MAFB-438	10/22/09	10/30/09	10/30/09
MAFB-439	10/29/09	11/09/09	11/09/09
MAFB-439 (FD)	10/29/09	11/06/09	11/06/09
MAFB-439 (MS)	10/29/09	11/06/09	11/06/09
MAFB-439 (MSD)	10/29/09	11/06/09	11/06/09
MAFB-441	10/28/09	11/03/09	11/03/09
MAFB-442	10/26/09	11/03/09	11/03/09
MAFB-443	10/12/09	10/16/09	10/16/09
MAFB-444	10/12/09	10/16/09	10/16/09
MAFB-445	10/12/09	10/16/09	10/16/09
MAFB-446	10/12/09	10/16/09	10/16/09
MAFB-446 (FD)	10/12/09	10/16/09	10/16/09
MAFB-447	10/12/09	10/16/09	10/16/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 4)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
MAFB-448	10/12/09	10/16/09	10/16/09
MAFB-449Bd	10/12/09	10/16/09	10/16/09
MAFB-449Bs	10/13/09	10/16/09	10/16/09
MAFB-450	10/26/09	11/03/09	11/03/09
MAFB-451	10/28/09	11/03/09	11/03/09
MAFB-452B	10/28/09	11/03/09	11/03/09
MAFB-452Bu	10/28/09	11/04/09	11/04/09
MAFB-453	10/23/09	11/02/09	11/02/09
MAFB-453C	10/23/09	11/03/09	11/03/09
MAFB-454	10/23/09	11/02/09	11/02/09
MAFB-454C	10/23/09	11/02/09	11/02/09
MAFB-455	10/23/09	11/02/09	11/02/09
MAFB-456	10/23/09	11/02/09	11/02/09
MAFB-456C	10/23/09	11/02/09	11/02/09
MAFB-457Bd	10/23/09	11/03/09	11/03/09
MAFB-457Bs	10/12/09	10/16/09	10/16/09
MAFB-457Bs (FD)	10/12/09	10/16/09	10/16/09
MAFB-458Bd	10/12/09	10/16/09	10/16/09
MAFB-458Bs	10/23/09	11/03/09	11/03/09
MAFB-459D	10/19/09	10/25/09	10/25/09
MAFB-459Dd	10/19/09	10/25/09	10/25/09
MAFB-460Bd	11/30/09	12/02/09	12/02/09
MAFB-460Bs	11/30/09	12/02/09	12/02/09
MAFB-461Bd	12/01/09	12/04/09	12/04/09
MAFB-461Bs	12/01/09	12/04/09	12/04/09
MBS EW-13BuB	10/15/09	10/17/09	10/17/09
MBS PTE AF	10/01/09	10/02/09	10/02/09
MBS PTE AF	10/15/09	10/16/09	10/16/09
MBS PTE AF	10/29/09	11/03/09	11/03/09
MBS PTE AF	11/12/09	11/13/09	11/13/09
MBS PTE AF	11/24/09	12/02/09	12/02/09
MBS PTE AF	12/10/09	12/12/09	12/12/09
MBS PTE AF	12/22/09	12/24/09	12/24/09
MBS PTI	10/15/09	10/17/09	10/17/09
MBS PTI (FD)	10/15/09	10/17/09	10/17/09
MBS PTI (MS)	10/15/09	10/17/09	10/17/09
MBS PTI (MSD)	10/15/09	10/17/09	10/17/09
OFB-72	10/28/09	11/04/09	11/04/09
OFB-80	10/28/09	11/04/09	11/04/09
OFB-85	10/28/09	11/04/09	11/04/09
TB-10/01/09	10/01/09	10/02/09	10/02/09
TB-10/12/09	10/12/09	10/16/09	10/16/09
TB-10/15/09	10/15/09	10/17/09	10/17/09
TB-10/19/09	10/19/09	10/24/09	10/24/09

TABLE 4-1.1

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 4)

Sample Identification	Date Sampled	SW8260B Date Prepared	SW8260B Date Analyzed
TB-10/21/09	10/21/09	10/30/09	10/30/09
TB-10/22/09	10/22/09	10/30/09	10/30/09
TB-10/23/09	10/23/09	11/03/09	11/03/09
TB-10/26/09	10/26/09	11/03/09	11/03/09
TB-10/27/09	10/27/09	11/03/09	11/03/09
TB-10/28/09	10/28/09	11/03/09	11/03/09
TB-10/29/09	10/29/09	11/06/09	11/06/09
TB-11/12/09	11/12/09	11/13/09	11/13/09
TB-11/24/09	11/24/09	12/04/09	12/04/09
TB-11/30/09	11/30/09	12/02/09	12/02/09
TB-12/01/09	12/01/09	12/04/09	12/04/09
TB-12/10/09	12/10/09	12/12/09	12/12/09
TB-12/22/09	12/22/09	12/24/09	12/24/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.2

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 524.2 Date Prepared	USEPA 524.2 Date Analyzed
MAFB-271	10/14/09	10/21/09	10/21/09
MAFB-319	10/14/09	10/21/09	10/21/09
MAFB-319 (FD)	10/14/09	10/22/09	10/22/09
MAFB-321	10/14/09	10/21/09	10/21/09
MAFB-322	10/14/09	10/21/09	10/21/09
MAFB-324	10/14/09	10/21/09	10/21/09
MAFB-324 (FD)	10/14/09	10/22/09	10/22/09
MAFB-324 (MS)	10/14/09	10/22/09	10/22/09
MAFB-324 (MSD)	10/14/09	10/22/09	10/22/09
MAFB-326	10/14/09	10/21/09	10/21/09
MAFB-328	10/14/09	10/21/09	10/21/09
MAFB-330	10/12/09	10/17/09	10/17/09
MAFB-336	10/12/09	10/18/09	10/18/09
MAFB-337	10/14/09	10/21/09	10/21/09
MAFB-338	10/14/09	10/21/09	10/21/09
OFB-04	10/27/09	10/29/09	10/29/09
OFB-04	11/24/09	11/27/09	11/27/09
OFB-04	12/29/09	12/31/09	12/31/09
OFB-04M	10/27/09	10/29/09	10/29/09
OFB-04M	11/24/09	11/27/09	11/27/09
OFB-04M	12/29/09	12/31/09	12/31/09
OFB-27	10/27/09	11/10/09	11/10/09
OFB-27 (FD)	10/27/09	10/29/09	10/29/09
OFB-27 (MS)	10/27/09	11/10/09	11/10/09
OFB-27 (MSD)	10/27/09	11/10/09	11/10/09
OFB-31	10/27/09	10/29/09	10/29/09
OFB-32	10/27/09	10/29/09	10/29/09
OFB-49	10/27/09	10/29/09	10/29/09
OFB-51	10/27/09	10/29/09	10/29/09
OFB-51/52I	10/27/09	10/29/09	10/29/09
OFB-51/52I	11/24/09	11/27/09	11/27/09
OFB-51/52I	12/29/09	12/31/09	12/31/09
OFB-51/52M	10/27/09	10/29/09	10/29/09
OFB-51/52M	11/24/09	11/27/09	11/27/09
OFB-51/52M	12/29/09	12/30/09	12/30/09
OFB-52	10/27/09	10/29/09	10/29/09
OFB-52 (FD)	10/27/09	10/29/09	10/29/09
OFB-54	10/27/09	10/29/09	10/29/09
OFB-55	10/27/09	10/29/09	10/29/09
OFB-56	10/27/09	10/29/09	10/29/09
TB-10/12/09	10/12/09	10/18/09	10/18/09
TB-10/14/09	10/14/09	10/21/09	10/21/09
TB-10/27/09	10/27/09	10/29/09	10/29/09
TB-11/24/09	11/24/09	11/27/09	11/27/09
TB-12/29/09	12/29/09	12/30/09	12/30/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.3

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	TPH as Diesel		TPH as Gasoline	
		Date Prepared	Date Analyzed	Date Prepared	Date Analyzed
7-BV-13	10/21/09	10/28/09	11/03/09	11/03/09	11/03/09
7-PTE	10/01/09	--	--	10/03/09	10/03/09
7-PTE	10/15/09	10/22/09	10/30/09	10/27/09	10/27/09
7-PTE	10/29/09	--	--	11/04/09	11/04/09
7-PTE	11/12/09	--	--	11/17/09	11/17/09
7-PTE	11/24/09	--	--	12/08/09	12/08/09
7-PTE	12/10/09	--	--	12/12/09	12/12/09
7-PTE	12/22/09	--	--	12/31/09	12/31/09
7-PTI	10/15/09	10/22/09	10/28/09	10/27/09	10/27/09
7-PTI (FD)	10/15/09	10/22/09	10/28/09	10/27/09	10/27/09
7-PTI (MS)	10/15/09	10/22/09	10/28/09	10/27/09	10/27/09
7-PTI (MSD)	10/15/09	10/22/09	10/28/09	10/27/09	10/27/09
7-PZ-37P	10/21/09	10/28/09	11/03/09	11/03/09	11/03/09
7-PZ-37P (FD)	10/21/09	10/28/09	11/04/09	11/03/09	11/03/09
7-PZ-37P (MS)	10/21/09	10/28/09	11/16/09	11/03/09	11/03/09
7-PZ-37P (MSD)	10/21/09	10/28/09	11/03/09	11/03/09	11/03/09
ACW PTE	10/15/09	10/22/09	10/28/09	--	--
ACW PTE (FD)	10/15/09	10/22/09	10/28/09	--	--
ACW PTE (MS)	10/15/09	10/22/09	10/28/09	--	--
ACW PTE (MSD)	10/15/09	10/22/09	10/28/09	--	--
MAFB-044	10/21/09	10/28/09	11/03/09	--	--
MAFB-149	10/22/09	10/28/09	11/04/09	11/03/09	11/03/09
MAFB-284	10/21/09	10/28/09	11/24/09	11/03/09	11/03/09
MAFB-413	10/22/09	10/28/09	11/04/09	11/03/09	11/03/09
MAFB-419	10/26/09	11/02/09	11/04/09	11/03/09	11/03/09
MAFB-436	12/01/09	12/02/09	12/03/09	12/08/09	12/08/09
MAFB-439	10/29/09	11/02/09	11/05/09	11/04/09	11/04/09
MBS PTE AF	10/15/09	10/21/09	10/23/09	10/27/09	10/27/09
MBS PTI	10/15/09	10/21/09	10/23/09	10/27/09	10/27/09
MBS PTI (FD)	10/15/09	10/21/09	10/23/09	10/27/09	10/27/09
MBS PTI (MS)	10/15/09	10/21/09	10/23/09	10/27/09	10/27/09
MBS PTI (MSD)	10/15/09	10/21/09	10/23/09	10/27/09	10/27/09
TB-10/01/09	10/01/09	--	--	10/03/09	10/03/09
TB-10/15/09	10/15/09	--	--	10/26/09	10/26/09
TB-10/21/09	10/21/09	--	--	11/03/09	11/03/09
TB-10/22/09	10/22/09	--	--	11/03/09	11/03/09
TB-10/26/09	10/26/09	--	--	11/03/09	11/03/09
TB-10/29/09	10/29/09	--	--	11/04/09	11/04/09
TB-11/12/09	11/12/09	--	--	11/17/09	11/17/09
TB-11/24/09	11/24/09	--	--	12/08/09	12/08/09
TB-12/01/09	12/01/09	--	--	12/08/09	12/08/09
TB-12/10/09	12/10/09	--	--	12/12/09	12/12/09
TB-12/22/09	12/22/09	--	--	12/30/09	12/30/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
TB - Trip Blank

TABLE 4-1.4

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 6010 - ICP METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 6010 Date Prepared	USEPA 6010 Date Analyzed
7-BV-01	10/19/09	10/23/09	10/26/09
7-BV-02	10/21/09	10/29/09	10/30/09
7-BV-02 (FD)	10/21/09	10/29/09	10/30/09
7-BV-02 (MS)	10/21/09	10/29/09	10/30/09
7-BV-02 (MSD)	10/21/09	10/29/09	10/30/09
7-BV-04	10/19/09	10/23/09	10/26/09
7-BV-06	10/19/09	10/23/09	10/26/09
7-BV-07	10/21/09	10/29/09	10/30/09
7-BV-08	10/21/09	10/29/09	10/30/09
7-PTE	10/15/09	10/16/09	10/20/09
7-PTI	10/15/09	10/16/09	10/20/09
7-PTI (FD)	10/15/09	10/16/09	10/20/09
7-PTI (MS)	10/15/09	10/16/09	10/20/09
7-PTI (MSD)	10/15/09	10/16/09	10/20/09
7-PZ-37P	10/21/09	10/23/09	10/26/09
7-PZ-37P (FD)	10/21/09	10/23/09	10/26/09
7-PZ-37P (MS)	10/21/09	10/23/09	10/26/09
7-PZ-37P (MSD)	10/21/09	10/23/09	10/26/09
ACW PTE	10/15/09	10/16/09	10/20/09
ACW PTI	10/15/09	10/16/09	10/20/09
ACW PTI (FD)	10/15/09	10/16/09	10/20/09
ACW PTI (MS)	10/15/09	10/16/09	10/20/09
ACW PTI (MSD)	10/15/09	10/16/09	10/20/09
MAFB-111	10/26/09	10/30/09	11/02/09
MAFB-129	10/26/09	10/30/09	11/02/09
MAFB-132	10/22/09	10/26/09	10/27/09
MAFB-133	10/27/09	10/30/09	11/02/09
MAFB-133 (FD)	10/27/09	10/30/09	11/02/09
MAFB-133 (FD)(RE)	10/27/09	10/30/09	11/06/09
MAFB-133 (MS)	10/27/09	10/30/09	11/02/09
MAFB-133 (MSD)	10/27/09	10/30/09	11/02/09
MAFB-136	10/22/09	10/26/09	10/27/09
MAFB-284	10/21/09	10/23/09	10/26/09
MAFB-288	10/26/09	10/30/09	11/02/09
MAFB-398	12/01/09	12/03/09	12/04/09
MAFB-398C	10/27/09	10/30/09	11/02/09
MAFB-398C (RE)	10/27/09	10/30/09	11/06/09
MAFB-399	10/22/09	10/26/09	10/27/09
MAFB-400	10/22/09	10/26/09	10/27/09
MAFB-413	10/22/09	10/26/09	10/27/09
MAFB-424	10/22/09	10/26/09	10/27/09
MAFB-439	10/29/09	11/03/09	11/04/09
MBS PTE AF	10/15/09	10/16/09	10/20/09
MBS PTI	10/15/09	10/16/09	10/20/09
MBS PTI (FD)	10/15/09	10/16/09	10/20/09
MBS PTI (MS)	10/15/09	10/16/09	10/20/09
MBS PTI (MSD)	10/15/09	10/16/09	10/20/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.5

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 6020 - THALLIUM
USEPA METHOD 7470 - MERCURY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 6020 Date Prepared	USEPA 6020 Date Analyzed	USEPA 7470 Date Prepared	USEPA 7470 Date Analyzed
7-PZ-37P	10/21/09	10/23/09	10/28/09	10/28/09	10/29/09
7-PZ-37P (FD)	10/21/09	10/23/09	10/28/09	10/28/09	10/29/09
7-PZ-37P (MS)	10/21/09	10/23/09	10/28/09	10/28/09	10/29/09
7-PZ-37P (MSD)	10/21/09	10/23/09	10/28/09	10/28/09	10/29/09
MAFB-132	10/22/09	10/26/09	10/28/09	10/28/09	10/29/09
MAFB-133	10/27/09	10/30/09	11/05/09	10/29/09	11/02/09
MAFB-133 (FD)	10/27/09	10/30/09	11/05/09	10/29/09	11/02/09
MAFB-133 (MS)	10/27/09	10/30/09	11/05/09	10/29/09	11/02/09
MAFB-133 (MSD)	10/27/09	10/30/09	11/05/09	10/29/09	11/02/09
MAFB-136	10/22/09	10/26/09	10/28/09	10/28/09	10/29/09
MAFB-284	10/21/09	10/23/09	10/28/09	10/28/09	10/29/09
MAFB-398	12/01/09	12/03/09	12/04/09	12/05/09	12/09/09
MAFB-398C	10/27/09	10/30/09	11/05/09	10/29/09	11/02/09
MAFB-399	10/22/09	10/26/09	10/28/09	10/28/09	10/29/09
MAFB-400	10/22/09	10/26/09	10/28/09	10/28/09	10/29/09
MAFB-413	10/22/09	10/26/09	10/28/09	10/28/09	10/29/09
MAFB-424	10/22/09	10/26/09	10/28/09	10/28/09	10/29/09
MBS PTE AF	10/15/09	10/18/09	10/28/09	10/17/09	10/22/09
MBS PTI	10/15/09	10/18/09	10/28/09	10/17/09	10/22/09
MBS PTI (FD)	10/15/09	10/18/09	10/28/09	10/17/09	10/22/09
MBS PTI (MS)	10/15/09	10/18/09	10/28/09	10/17/09	10/22/09
MBS PTI (MSD)	10/15/09	10/18/09	10/28/09	10/17/09	10/22/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.6

SUMMARY OF EXTRACTION AND ANALYSIS DATES
STANDARD METHOD 2320 - ALKALINITY
USEPA METHOD 130.2 - HARDNESS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	SM 2320 Date Prepared	SM 2320 Date Analyzed	USEPA 130.2 Date Prepared	USEPA 130.2 Date Analyzed
7-BV-01	10/19/09	11/01/09	11/01/09	10/30/09	10/30/09
7-BV-02	10/21/09	11/02/09	11/02/09	10/30/09	10/30/09
7-BV-02 (FD)	10/21/09	11/02/09	11/02/09	10/30/09	10/30/09
7-BV-02 (MS)	10/21/09	11/02/09	11/02/09	10/30/09	10/30/09
7-BV-02 (MSD)	10/21/09	11/02/09	11/02/09	10/30/09	10/30/09
7-BV-04	10/19/09	11/01/09	11/01/09	10/30/09	10/30/09
7-BV-06	10/19/09	11/01/09	11/01/09	10/30/09	10/30/09
7-BV-07	10/21/09	11/02/09	11/02/09	10/30/09	10/30/09
7-BV-08	10/21/09	11/02/09	11/02/09	10/30/09	10/30/09
7-PTE	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
7-PTI	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
7-PTI (FD)	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
7-PTI (MS)	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
7-PTI (MSD)	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
ACW PTE	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
ACW PTI	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
ACW PTI (FD)	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
ACW PTI (MS)	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
ACW PTI (MSD)	10/15/09	10/22/09	10/22/09	10/23/09	10/23/09
MAFB-132	10/22/09	11/03/09	11/03/09	--	--
MAFB-133	10/27/09	11/06/09	11/06/09	--	--
MAFB-133 (FD)	10/27/09	11/06/09	11/06/09	--	--
MAFB-133 (MS)	10/27/09	11/06/09	11/06/09	--	--
MAFB-133 (MSD)	10/27/09	11/06/09	11/06/09	--	--
MAFB-136	10/22/09	11/03/09	11/03/09	--	--
MAFB-398	12/01/09	12/14/09	12/14/09	--	--
MAFB-398C	10/27/09	11/06/09	11/06/09	--	--
MAFB-399	10/22/09	11/03/09	11/03/09	--	--
MAFB-400	10/22/09	11/03/09	11/03/09	--	--
MAFB-424	10/22/09	11/03/09	11/03/09	--	--
MBS PTE AF	10/15/09	10/27/09	10/27/09	10/23/09	10/23/09
MBS PTI	10/15/09	10/27/09	10/27/09	10/23/09	10/23/09
MBS PTI (FD)	10/15/09	10/27/09	10/27/09	10/23/09	10/23/09
MBS PTI (MS)	10/15/09	10/27/09	10/27/09	10/23/09	10/23/09
MBS PTI (MSD)	10/15/09	10/27/09	10/27/09	10/23/09	10/23/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

TABLE 4-1.7

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 160.1 - TOTAL FILTERABLE RESIDUE
USEPA METHOD 160.2 - TOTAL SUSPENDED SOLIDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 160.1 Date Prepared	USEPA 160.1 Date Analyzed	USEPA 160.2 Date Prepared	USEPA 160.2 Date Analyzed
7-BV-01	10/19/2009	10/26/2009	10/26/2009	--	--
7-BV-01 (MS)	10/19/2009	10/26/2009	10/26/2009	--	--
7-BV-01 (MSD)	10/19/2009	10/26/2009	10/26/2009	--	--
7-BV-02	10/21/2009	10/28/2009	10/28/2009	--	--
7-BV-02 (FD)	10/21/2009	10/28/2009	10/28/2009	--	--
7-BV-02 (MS)	10/21/2009	10/28/2009	10/28/2009	--	--
7-BV-02 (MSD)	10/21/2009	10/28/2009	10/28/2009	--	--
7-BV-04	10/19/2009	10/26/2009	10/26/2009	--	--
7-BV-06	10/19/2009	10/26/2009	10/26/2009	--	--
7-BV-07	10/21/2009	10/28/2009	10/28/2009	--	--
7-BV-08	10/21/2009	10/28/2009	10/28/2009	--	--
7-PTE	10/15/2009	10/21/2009	10/21/2009	--	--
7-PTI	10/15/2009	10/21/2009	10/21/2009	--	--
7-PTI (FD)	10/15/2009	10/21/2009	10/21/2009	--	--
7-PTI (MS)	10/15/2009	10/21/2009	10/21/2009	--	--
7-PTI (MSD)	10/15/2009	10/21/2009	10/21/2009	--	--
ACW PTE	10/15/2009	10/21/2009	10/21/2009	--	--
ACW PTI	10/15/2009	10/21/2009	10/21/2009	--	--
ACW PTI (FD)	10/15/2009	10/21/2009	10/21/2009	--	--
ACW PTI (MS)	10/15/2009	10/21/2009	10/21/2009	--	--
ACW PTI (MSD)	10/15/2009	10/21/2009	10/21/2009	--	--
MAFB-132	10/22/2009	10/28/2009	10/28/2009	--	--
MAFB-133	10/27/2009	11/2/2009	11/2/2009	--	--
MAFB-133 (FD)	10/27/2009	11/2/2009	11/2/2009	--	--
MAFB-133 (MS)	10/27/2009	11/2/2009	11/2/2009	--	--
MAFB-133 (MSD)	10/27/2009	11/2/2009	11/2/2009	--	--
MAFB-136	10/22/2009	10/28/2009	10/28/2009	--	--
MAFB-398	12/1/2009	12/7/2009	12/7/2009	--	--
MAFB-398C	10/27/2009	11/2/2009	11/2/2009	--	--
MAFB-399	10/22/2009	10/28/2009	10/28/2009	--	--
MAFB-400	10/22/2009	10/28/2009	10/28/2009	--	--
MAFB-424	10/22/2009	10/28/2009	10/28/2009	--	--
MBS PTE AF	10/15/2009	10/21/2009	10/21/2009	10/19/2009	10/19/2009
MBS PTE AF (DUP)	10/15/2009	--	--	10/19/2009	10/19/2009
MBS PTI	10/15/2009	10/21/2009	10/21/2009	10/19/2009	10/19/2009
MBS PTI (DUP)	10/15/2009	10/21/2009	10/21/2009	10/19/2009	10/19/2009
MBS PTI (FD)	10/15/2009	10/21/2009	10/21/2009	10/19/2009	10/19/2009
MBS PTI (MS)	10/15/2009	10/21/2009	10/21/2009	--	--
MBS PTI (MSD)	10/15/2009	10/21/2009	10/21/2009	--	--

Notes:
DUP - Laboratory Duplicate
FD - Field Duplicate
MS - Matrix Spike

TABLE 4-1.7

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 160.1 - TOTAL FILTERABLE RESIDUE
USEPA METHOD 160.2 - TOTAL SUSPENDED SOLIDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 160.1 Date Prepared	USEPA 160.1 Date Analyzed	USEPA 160.2 Date Prepared	USEPA 160.2 Date Analyzed

MSD - Matrix Spike Duplicate

TABLE 4-1.8

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 300.0 - CHLORIDE, NITRATE, AND SULFATE
USEPA METHOD 314.0 - PERCHLORATE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Identification	Date Sampled	USEPA 300.0 Date Prepared	USEPA 300.0 Date Analyzed	USEPA 314.0 Date Prepared	USEPA 314.0 Date Analyzed
7-BV-01	10/19/09	10/20/09	10/20/09	--	--
7-BV-01 (RE)	10/19/09	10/21/09	10/21/09	--	--
7-BV-02	10/21/09	10/22/09	10/22/09	--	--
7-BV-02 (FD)	10/21/09	10/22/09	10/22/09	--	--
7-BV-02 (FD)(RE)	10/21/09	10/22/09	10/22/09	--	--
7-BV-02 (MS)	10/21/09	10/23/09	10/23/09	--	--
7-BV-02 (MSD)	10/21/09	10/23/09	10/23/09	--	--
7-BV-02 (RE)	10/21/09	10/22/09	10/22/09	--	--
7-BV-04	10/19/09	10/20/09	10/20/09	--	--
7-BV-04 (RE)	10/19/09	10/21/09	10/21/09	--	--
7-BV-06	10/19/09	10/20/09	10/20/09	--	--
7-BV-06 (RE)	10/19/09	10/21/09	10/21/09	--	--
7-BV-07	10/21/09	10/22/09	10/22/09	--	--
7-BV-07 (RE)	10/21/09	10/22/09	10/22/09	--	--
7-BV-08	10/21/09	10/22/09	10/22/09	--	--
7-BV-08 (RE)	10/21/09	10/22/09	10/22/09	--	--
7-PTE	10/15/09	10/16/09	10/16/09	--	--
7-PTI	10/15/09	10/16/09	10/16/09	--	--
7-PTI (FD)	10/15/09	10/16/09	10/16/09	--	--
7-PTI (MS)	10/15/09	10/16/09	10/16/09	--	--
7-PTI (MSD)	10/15/09	10/16/09	10/16/09	--	--
ACW PTE	10/15/09	10/16/09	10/16/09	10/29/09	10/29/09
ACW PTE (FD)	10/15/09	--	--	10/29/09	10/29/09
ACW PTE (MS)	10/15/09	--	--	10/29/09	10/29/09
ACW PTE (MSD)	10/15/09	--	--	10/29/09	10/29/09
ACW PTI	10/15/09	10/16/09	10/16/09	--	--
ACW PTI (FD)	10/15/09	10/16/09	10/16/09	--	--
ACW PTI (MS)	10/15/09	10/16/09	10/16/09	--	--
ACW PTI (MSD)	10/15/09	10/16/09	10/16/09	--	--
MAFB-132	10/22/09	10/26/09	10/26/09	--	--
MAFB-133	10/27/09	10/28/09	10/28/09	--	--
MAFB-133 (FD)	10/27/09	10/28/09	10/28/09	--	--
MAFB-133 (MS)	10/27/09	10/28/09	10/28/09	--	--
MAFB-133 (MSD)	10/27/09	10/28/09	10/28/09	--	--
MAFB-136	10/22/09	10/26/09	10/26/09	--	--
MAFB-398	12/01/09	12/02/09	12/02/09	--	--
MAFB-398C	10/27/09	10/28/09	10/28/09	--	--
MAFB-399	10/22/09	10/26/09	10/26/09	--	--
MAFB-400	10/22/09	10/26/09	10/26/09	--	--
MAFB-424	10/22/09	10/26/09	10/26/09	--	--
MBS PTE AF	10/15/09	10/16/09	10/16/09	10/29/09	10/29/09
MBS PTE AF (FD)	10/15/09	--	--	10/29/09	10/29/09
MBS PTE AF (MS)	10/15/09	--	--	10/29/09	10/29/09

TABLE 4-1.8

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 300.0 - CHLORIDE, NITRATE, AND SULFATE
USEPA METHOD 314.0 - PERCHLORATE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Identification	Date Sampled	USEPA 300.0 Date Prepared	USEPA 300.0 Date Analyzed	USEPA 314.0 Date Prepared	USEPA 314.0 Date Analyzed
MBS PTE AF (MSD)	10/15/09	--	--	10/29/09	10/29/09
MBS PTI	10/15/09	10/16/09	10/16/09	--	--
MBS PTI (FD)	10/15/09	10/16/09	10/16/09	--	--
MBS PTI (MS)	10/15/09	10/16/09	10/16/09	--	--
MBS PTI (MSD)	10/15/09	10/16/09	10/16/09	--	--

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RE - Sample Reanalysis

TABLE 4-1.9

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 340.2 - FLUORIDE
USEPA METHOD 376.1 - TOTAL SULFIDE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 340.2 Date Prepared	USEPA 340.2 Date Analyzed	USEPA 376.1 Date Prepared		USEPA 376.1 Date Analyzed	
MAFB-132	10/22/09	10/26/09	10/26/09	10/30/09	*	10/30/09	*
MAFB-133	10/27/09	11/09/09	11/09/09	10/28/09		10/28/09	
MAFB-133 (FD)	10/27/09	11/09/09	11/09/09	10/28/09		10/28/09	
MAFB-133 (MS)	10/27/09	11/09/09	11/09/09	10/28/09		10/28/09	
MAFB-133 (MSD)	10/27/09	11/09/09	11/09/09	10/28/09		10/28/09	
MAFB-136	10/22/09	10/26/09	10/26/09	10/30/09	*	10/30/09	*
MAFB-398	12/01/09	12/14/09	12/14/09	12/02/09	*	12/02/09	*
MAFB-398C	10/27/09	11/09/09	11/09/09	10/28/09		10/28/09	
MAFB-399	10/22/09	10/26/09	10/26/09	10/30/09	*	10/30/09	*
MAFB-400	10/22/09	10/26/09	10/26/09	10/23/09		10/23/09	
MAFB-424	10/22/09	10/26/09	10/26/09	10/23/09		10/23/09	

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

* Analytical holding time requirement not met.

TABLE 4-1.10

SUMMARY OF EXTRACTION AND ANALYSIS DATES
USEPA METHOD 7196 - HEXAVALENT CHROMIUM
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Date Sampled	USEPA 7196 Date Prepared	USEPA 7196 Date Analyzed
7-PZ-37P	10/21/09	10/22/09	10/22/09
7-PZ-37P (FD)	10/21/09	10/22/09	10/22/09
7-PZ-37P (MS)	10/21/09	10/22/09	10/22/09
7-PZ-37P (MSD)	10/21/09	10/22/09	10/22/09
MAFB-149	10/22/09	10/23/09	10/23/09
MAFB-284	10/21/09	10/22/09	10/22/09
MAFB-413	10/22/09	10/23/09	10/23/09
MAFB-424	10/22/09	10/23/09	10/23/09

Notes:
FD - Field Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate

5.0 QA/QC SUMMARY REPORT

The tables presented in this section correspond to Table A-7 of the Handbook (Appendix A, Tab 6), which has been separated into four distinct table types for this ADR. The Analytical Batch Summary (Table 5-1.1) contains the laboratory batch assignments of all field samples for each method utilized during the Fourth Quarter Groundwater Monitoring event. The Matrix Spike and Matrix Spike Duplicate Batch Summary (Table 5-1.2) identifies which field samples are associated with each Matrix Spike/Matrix Spike Duplicate sample for each method utilized. Laboratory method blank results for each batch are addressed in the Analytical Data Summary (Section 2.0). The Laboratory Control Sample Recovery Summary (Tables 5-2.1 through 5-2.6) contains accuracy results for each LCS analyzed with its associated analytical batch. The Matrix Spike and Matrix Spike Duplicate Recovery Summary (Tables 5-3.1 through 5-3.6) contains precision and accuracy results for each MS/MSD duplicate pair analyzed. The Laboratory Duplicate Summary (Table 5-4) contains precision results for each laboratory duplicate sample.

Results for carbonate, bicarbonate, and hydroxide alkalinity are by calculation. As a result, no quality control data have been provided for these results.

Due to the limitations of the current Electronic Data Deliverable (EDD) format, Relative Percent Differences (RPD) in Tables 5-3.1 through 5-3.6 are calculated using MS/MSD percent recoveries, rather than actual observed values, and therefore should not be used for validation purposes. This deviation is limited to these tables only. Data validation qualifiers applied due to RPD nonconformances are based on the calculation from actual MS/MSD values.

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
SM 2320 Alkalinity	T091022A	10/22/09	MB-10/22/09 7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) 7-PTI-10/15/09 (MS) 7-PTI-10/15/09 (MSD) ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD) ACW PTI-10/15/09 (MS) ACW PTI-10/15/09 (MSD)
	T091027A	10/27/09	MB-10/27/09 MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS) MBS PTI-10/15/09 (MSD)
	T091101A	11/01/09	MB-11/01/09 7-BV-01 7-BV-04 7-BV-06
	T091102A	11/02/09	MB-11/02/09 7-BV-02 7-BV-02 (FD) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-07 7-BV-08
	T091103A	11/03/09	MB-11/03/09 MAFB-132 MAFB-136 MAFB-399 MAFB-400 MAFB-424
	T091106A	11/06/09	MB-11/06/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-398C
SM 2320 Alkalinity (continued)	T091214A	12/14/09	MB-12/14/09 MAFB-398
USEPA 130.2	B091023A	10/23/09	MB-10/23/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
Hardness			7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) 7-PTI-10/15/09 (MS) 7-PTI-10/15/09 (MSD) ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD) ACW PTI-10/15/09 (MS) ACW PTI-10/15/09 (MSD) MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS) MBS PTI-10/15/09 (MSD)
	B091030A	10/30/09	MB-10/30/09 7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-04 7-BV-06 7-BV-07 7-BV-08
USEPA 160.1 Total Filterable Residue	M091021D	10/21/09	MB-10/21/09 ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD) ACW PTI-10/15/09 (MS) ACW PTI-10/15/09 (MSD)
	M091021E	10/21/09	MB-10/21/09 7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) 7-PTI-10/15/09 (MS) 7-PTI-10/15/09 (MSD)
USEPA 160.1 Total Filterable Residue (continued)	M091021F	10/21/09	MB-10/21/09 MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (DUP) MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS) MBS PTI-10/15/09 (MSD)
	M091026B	10/26/09	MB-10/26/09 7-BV-01

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			7-BV-01 (MS) 7-BV-01 (MSD) 7-BV-04 7-BV-06
	M091027A	10/28/09	MB-10/28/09 7-BV-02 7-BV-02 (FD) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-07 7-BV-08
	M091027B	10/28/09	MB-10/28/09 MAFB-132 MAFB-136 MAFB-399 MAFB-400 MAFB-424
	M091102B	11/02/09	MB-11/02/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-398C
	M091207A	12/07/09	MB-12/07/09 MAFB-398
USEPA 160.2 Total Suspended Solids	M091019B	10/19/09	MB-10/19/09 MBS PTE AF-10/15/09 MBS PTE AF-10/15/09 (DUP) MBS PTI-10/15/09 MBS PTI-10/15/09 (DUP) MBS PTI-10/15/09 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	D091016A	10/16/09	MB-10/16/09 7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) 7-PTI-10/15/09 (MS) 7-PTI-10/15/09 (MSD) ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD) ACW PTI-10/15/09 (MS) ACW PTI-10/15/09 (MSD) MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MBS PTI-10/15/09 (MSD)
	D091020A	10/20/09	MB-10/20/09 7-BV-01 7-BV-01 (RE) 7-BV-04 7-BV-04 (RE) 7-BV-06 7-BV-06 (RE)
	D091022A	10/22/09	MB-10/22/09 7-BV-02 7-BV-02 (FD) 7-BV-02 (FD)(RE) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-02 (RE) 7-BV-07 7-BV-07 (RE) 7-BV-08 7-BV-08 (RE)
	D091026A	10/26/09	MB-10/26/09 MAFB-132 MAFB-136 MAFB-399 MAFB-400 MAFB-424
	D091028A	10/28/09	MB-10/28/09 MAFB-133 MAFB-133 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	D091028A (continued)	10/28/09	MAFB-133 (MS) MAFB-133 (MSD) MAFB-398C
	D091202A	12/02/09	MB-12/02/09 MAFB-398
USEPA 314.0 Perchlorate	D091029A	10/29/09	MB-10/29/09 ACW PTE-10/15/09 ACW PTE-10/15/09 (FD) ACW PTE-10/15/09 (MS) ACW PTE-10/15/09 (MSD) MBS PTE AF-10/15/09 MBS PTE AF-10/15/09 (FD) MBS PTE AF-10/15/09 (MS) MBS PTE AF-10/15/09 (MSD)
USEPA 340.2 Fluoride	M091026A	10/26/09	MB-10/26/09 MAFB-132 MAFB-136

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-399
			MAFB-400
			MAFB-424
	M091109A	11/09/09	MB-11/09/09
			MAFB-133
			MAFB-133 (FD)
			MAFB-133 (MS)
			MAFB-133 (MSD)
			MAFB-398C
	M091214A	12/14/09	MB-12/14/09
			MAFB-398
USEPA 376.1 Sulfide, total	091023A	10/23/09	MB-10/23/09
			MAFB-400
			MAFB-424
	091028A	10/28/09	MB-10/28/09
			MAFB-133
			MAFB-133 (FD)
			MAFB-133 (MS)
			MAFB-133 (MSD)
			MAFB-398C
	091030A	10/30/09	MB-10/30/09
			MAFB-132
USEPA 376.1 Sulfide, total	091030A (continued)	10/30/09	MAFB-136
			MAFB-399
	091202A	12/02/09	MB-12/02/09
			MAFB-398
USEPA 524.2 VOCs	C091017A	10/17/09	MB-10/17/09
			MAFB-330
			MAFB-336
			TB-10/12/09
	C091021A	10/21/09	MB-10/21/09
			MAFB-271
			MAFB-319
			MAFB-319 (FD)
			MAFB-321
			MAFB-322
			MAFB-324
			MAFB-324 (FD)
			MAFB-324 (MS)
			MAFB-324 (MSD)
			MAFB-326
			MAFB-328
			MAFB-337
			MAFB-338

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			TB-10/14/09
	H091109A	11/09/09	MB-11/09/09 OFB-27 OFB-27 (MS) OFB-27 (MSD)
	S091028A	10/28/09	MB-10/28/09 OFB-04-10/27/09 OFB-04M-10/27/09 OFB-27 (FD) OFB-31 OFB-32 OFB-49 OFB-51 OFB-51/52I-10/27/09 OFB-51/52M-10/27/09 OFB-52 OFB-52 (FD) OFB-54 OFB-55 OFB-56
USEPA 524.2 VOCs	S091028A (continued)	10/29/09	TB-10/27/09
	S091127A	11/27/09	MB-11/27/09 OFB-04-11/24/09 OFB-04M-11/24/09 OFB-51/52I-11/24/09 OFB-51/52M-11/24/09 TB-11/24/09
	S091230A	12/30/09	MB-12/30/09 OFB-04-12/29/09 OFB-04M-12/29/09 OFB-51/52I-12/29/09 OFB-51/52M-12/29/09 TB-12/29/09
USEPA 8015 Modified TPH as Diesel	A091021A	10/21/09	MB-10/21/09 MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS) MBS PTI-10/15/09 (MSD)
	A091022B	10/22/09	MB-10/22/09 7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) 7-PTI-10/15/09 (MS) 7-PTI-10/15/09 (MSD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			ACW PTE-10/15/09 ACW PTE-10/15/09 (FD) ACW PTE-10/15/09 (MS) ACW PTE-10/15/09 (MSD)
	A091028A	10/28/09	MB-10/28/09 7-BV-13 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-044 MAFB-149 MAFB-284 MAFB-413
USEPA 8015 Modified TPH as Diesel (continued)	A091102A	11/02/09	MB-11/02/09 MAFB-419 MAFB-439
	A091202B	12/02/09	MB-12/02/09 MAFB-436
USEPA 8015 Modified TPH as Gasoline	H091003A	10/03/09	MB-10/03/09 7-PTE-10/01/09 TB-10/01/09
	H091026A	10/26/09	MB-10/26/09 MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS) MBS PTI-10/15/09 (MSD) TB-10/15/09
	H091027A	10/27/09	MB-10/27/09 7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) 7-PTI-10/15/09 (MS) 7-PTI-10/15/09 (MSD)
	H091103A	11/03/09	MB-11/03/09 7-BV-13 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-149 MAFB-284 MAFB-413

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-419 TB-10/21/09 TB-10/22/09 TB-10/26/09
	H091103B	11/03/09	MB-11/03/09 7-PTE-10/29/09 MAFB-439 TB-10/29/09
	H091117A	11/17/09	MB-11/17/09 7-PTE-11/12/09
USEPA 8015 Modified TPH as Gasoline	H091117A (continued)	11/17/09	TB-11/12/09
	H091208A	12/08/09	MB-12/08/09 7-PTE-11/24/09 MAFB-436 TB-11/24/09 TB-12/01/09
	H091211A	12/12/09	MB-12/12/09 7-PTE-12/10/09 TB-12/10/09
	H091230A	12/30/09	MB-12/30/09 7-PTE-12/22/09 TB-12/22/09
USEPA 6010 ICP Metals	P091018A	10/16/09	MB-10/16/09 7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) 7-PTI-10/15/09 (MS) 7-PTI-10/15/09 (MSD) ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD) ACW PTI-10/15/09 (MS) ACW PTI-10/15/09 (MSD) MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS) MBS PTI-10/15/09 (MSD)
	P091023A	10/23/09	MB-10/23/09 7-BV-01 7-BV-04 7-BV-06 7-PZ-37P 7-PZ-37P (FD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-284
	P091026A	10/26/09	MB-10/26/09 MAFB-132 MAFB-136
USEPA 6010 ICP Metals	P091026A (continued)	10/26/09	MAFB-399 MAFB-400 MAFB-413 MAFB-424
	P091029B	10/29/09	MB-10/29/09 7-BV-02 7-BV-02 (FD) 7-BV-02 (MS) 7-BV-02 (MSD) 7-BV-07 7-BV-08
	P0910301A	10/30/09	MB-10/30/09 MAFB-111 MAFB-129 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-288 MAFB-398C
	P091103A	11/03/09	MB-11/03/09 MAFB-439
	P0912031A	12/03/09	MB-12/03/09 MAFB-398
USEPA 6020 Thallium	O091018A	10/18/09	MB-10/18/09 MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS) MBS PTI-10/15/09 (MSD)
	O091023A	10/23/09	MB-10/23/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-284
	O091026A	10/26/09	MB-10/26/09 MAFB-132

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
USEPA 6020 Thallium (continued)	O091026A	10/26/09	MAFB-136 MAFB-399 MAFB-400 MAFB-413 MAFB-424
	O091030A	10/30/09	MB-10/30/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-398C
	O091203A	12/03/09	MB-12/03/09 MAFB-398
USEPA 7196 Hexavalent Chromium	M091022A	10/22/09	MB-10/22/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-284
	M091023A	10/23/09	MB-10/23/09 MAFB-149 MAFB-413 MAFB-424
USEPA 7470 Mercury	F091017B	10/17/09	MB-10/17/09 MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS) MBS PTI-10/15/09 (MSD)
	F091028A	10/28/09	MB-10/28/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-132 MAFB-136 MAFB-284 MAFB-399 MAFB-400 MAFB-413 MAFB-424
USEPA 7470 Mercury (continued)	F091029A	10/29/09	MB-10/29/09 MAFB-133 MAFB-133 (FD)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-133 (MS) MAFB-133 (MSD) MAFB-398C
	F091205A	12/05/09	MB-12/05/09 MAFB-398
USEPA 8260 VOCs	C091106A	11/06/09	MB-11/06/09 MAFB-439 (FD) TB-10/29/09
	C091106B	11/07/09	MB-11/07/09 MAFB-296 MAFB-382B
	C091109A	11/09/09	MB-11/09/09 MAFB-439 MAFB-439 (MS) MAFB-439 (MSD)
	H091015A	10/15/09	MB-10/15/09 MAFB-444 MAFB-445 MAFB-446 MAFB-446 (FD) MAFB-447 MAFB-448 MAFB-449Bs
	H091016A	10/16/09	MB-10/16/09 7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) 7-PTI-10/15/09 (MS) 7-PTI-10/15/09 (MSD) ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD) ACW PTI-10/15/09 (MS) ACW PTI-10/15/09 (MSD) ACW R2 MAFB-388Ds MAFB-426 MAFB-443
USEPA 8260 VOCs	H091016A (continued)	10/16/09	MAFB-449Bd MAFB-457Bs MAFB-457Bs (FD) MAFB-458Bd MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD) MBS PTI-10/15/09 (MS)

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MBS PTI-10/15/09 (MSD) TB-10/12/09 TB-10/15/09
	H091017A	10/17/09	MB-10/17/09 MBS EW-13BuB
	H091023B	10/24/09	MB-10/24/09 7-BV-01 7-BV-02 7-BV-04 7-BV-06 7-BV-07 7-BV-08 7-BV-13 MAFB-318 MAFB-354B MAFB-354D MAFB-435 MAFB-459D MAFB-459Dd TB-10/19/09
	M091002A	10/02/09	MB-10/02/09 7-PTE-10/01/09 ACW PTE-10/01/09 MBS PTE AF-10/01/09 TB-10/01/09
	M091030A	10/30/09	MB-10/30/09 7-PZ-37P 7-PZ-37P (FD) 7-PZ-37P (MS) 7-PZ-37P (MSD) MAFB-044 MAFB-132 MAFB-136 MAFB-284 MAFB-413
USEPA 8260 VOCs	M091030A (continued)	10/30/09	MAFB-424 MAFB-438 TB-10/21/09 TB-10/22/09
	M091102A	11/02/09	MB-11/02/09 ACW PZ-05 FFS EW15-1 FFS EW15-2 MAFB-149 MAFB-399 MAFB-400 MAFB-433

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			MAFB-433 (FD) MAFB-453 MAFB-454 MAFB-454C MAFB-455 MAFB-456 MAFB-456C
	M091102B	11/03/09	MB-11/03/09 FFS MW15-1 FFS MW15-2 FFS MW15-3 MAFB-293 MAFB-378D MAFB-378D (MS) MAFB-378D (MSD) MAFB-434Bd MAFB-434Bd (FD) MAFB-442 MAFB-450 MAFB-453C MAFB-457Bd MAFB-458Bs TB-10/23/09 TB-10/26/09
	M091103A	11/03/09	MB-11/03/09 7-PTE-10/29/09 ACW PTE-10/29/09 MAFB-133 MAFB-133 (FD) MAFB-133 (MS) MAFB-133 (MSD) MAFB-378B (FD)
USEPA 8260 VOCs	M091103A (continued)	11/03/09	MAFB-397 MAFB-398C MBS PTE AF-10/29/09 TB-10/27/09
	M091106A	11/06/09	MB-11/06/09 MAFB-378B
	M091113A	11/13/09	MB-11/13/09 7-PTE-11/12/09 ACW PTE-11/12/09 MBS PTE AF-11/12/09 TB-11/12/09
	M091211A	12/11/09	MB-12/11/09 7-PTE-12/10/09 ACW PTE-12/10/09 MBS PTE AF-12/10/09

TABLE 5-1.1

ANALYTICAL BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 14 of 14)

Analytical Method	Batch Identification	Batch Preparation Date	Associated Field Samples
			TB-12/10/09
	M091223A	12/24/09	MB-12/24/09 7-PTE-12/22/09 ACW PTE-12/22/09 MBS PTE AF-12/22/09 TB-12/22/09
	N091201A	12/02/09	MB-12/02/09 MAFB-460Bd MAFB-460Bs TB-11/30/09
	N091202A	12/02/09	MB-12/02/09 7-PTE-11/24/09 ACW PTE-11/24/09 MBS PTE AF-11/24/09
	N091203A	12/04/09	MB-12/04/09 MAFB-398 MAFB-436 MAFB-461Bd MAFB-461Bs TB-11/24/09 TB-12/01/09
	S091103A	11/03/09	MB-11/03/09 MAFB-441 MAFB-451
USEPA 8260 VOCs	S091103A (continued)	11/03/09	MAFB-452B MAFB-452Bu OFB-72 OFB-80 OFB-85 TB-10/28/09

Notes:
DUP - Laboratory Duplicate
FD - Field Duplicate
ICP - Inductively Coupled Plasma
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RE - Sample Reanalysis
SM - Standard Methods
TB - Trip Blank
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
SM 2320 Alkalinity	7-BV-02	7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-04 7-BV-06 7-BV-07 7-BV-08 MAFB-424
	7-PTI-10/15/09	7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD)
	ACW PTI-10/15/09	ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-398 MAFB-398C MAFB-399 MAFB-400
	MBS PTI-10/15/09	MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD)
USEPA 130.2 Hardness	7-BV-02	7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-04 7-BV-06 7-BV-07 7-BV-08
	7-PTI-10/15/09	7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD)
	ACW PTI-10/15/09	ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD)
	MBS PTI-10/15/09	MBS PTE AF-10/15/09

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MBS PTI-10/15/09
USEPA 130.2 Hardness	MBS PTI-10/15/09 (continued)	MBS PTI-10/15/09 (FD)
USEPA 160.1 Total Filterable Residue	7-BV-01	7-BV-01 7-BV-04 7-BV-06
	7-BV-02	7-BV-02 7-BV-02 (FD) 7-BV-07 7-BV-08 MAFB-424
	7-PTI-10/15/09	7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD)
	ACW PTI-10/15/09	ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-398 MAFB-398C MAFB-399 MAFB-400
	MBS PTI-10/15/09	MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD)
USEPA 160.2 Total Suspended Solids	NA	MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD)
USEPA 300.0 Chloride, Nitrate, and Sulfate	7-BV-02	7-BV-01 7-BV-02 7-BV-02 (FD) 7-BV-04 7-BV-06 7-BV-07 7-BV-08 MAFB-424

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 300.0 Chloride, Nitrate, and Sulfate (continued)	7-PTI-10/15/09	7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD)
	ACW PTE-10/15/09	ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD)
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-398 MAFB-398C MAFB-399 MAFB-400
	MBS PTI-10/15/09	MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD)
USEPA 314.0 Perchlorate	ACW PTE-10/15/09	ACW PTE-10/15/09 ACW PTE-10/15/09 (FD)
	MBS PTE AF-10/15/09	MBS PTE AF-10/15/09 MBS PTE AF-10/15/09 (FD)
USEPA 340.2 Fluoride	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-398 MAFB-398C MAFB-399 MAFB-400 MAFB-424
USEPA 376.1 Sulfide, total	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-398 MAFB-398C MAFB-399 MAFB-400

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MAFB-424
USEPA 524.2 VOCs	MAFB-324	MAFB-271 MAFB-319 MAFB-319 (FD) MAFB-321 MAFB-322 MAFB-324 MAFB-324 (FD) MAFB-326 MAFB-328 MAFB-330 MAFB-336 MAFB-337 MAFB-338 OFB-31 OFB-32 OFB-49 OFB-54 OFB-55 OFB-56
	OFB-27	OFB-04-10/27/09 OFB-04-11/24/09 OFB-04-12/29/09 OFB-04M-10/27/09 OFB-04M-11/24/09 OFB-04M-12/29/09 OFB-27 OFB-27 (FD) OFB-51 OFB-51/52I-10/27/09 OFB-51/52I-11/24/09 OFB-51/52I-12/29/09 OFB-51/52M-10/27/09 OFB-51/52M-11/24/09 OFB-51/52M-12/29/09 OFB-52 OFB-52 (FD)
USEPA 8015 Modified TPH as Diesel	7-PTI-10/15/09	7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD)
	7-PZ-37P	7-BV-13 7-PZ-37P

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		7-PZ-37P (FD)
		MAFB-044
		MAFB-284
		MAFB-149
USEPA 8015 Modified TPH as Diesel	7-PZ-37P	MAFB-413
	ACW PTE-10/15/09	ACW PTE-10/15/09
		ACW PTE-10/15/09 (FD)
	MBS PTI-10/15/09	MBS PTE AF-10/15/09
		MBS PTI-10/15/09
		MBS PTI-10/15/09 (FD)
		MAFB-419
		MAFB-439
		MAFB-436
USEPA 8015 Modified TPH as Gasoline	7-PZ-37P	7-BV-13
		7-PZ-37P
		7-PZ-37P (FD)
		MAFB-149
		MAFB-284
		MAFB-413
	7-PTI-10/15/09	7-PTE-10/01/09
		7-PTE-10/15/09
		7-PTE-10/29/09
		7-PTE-11/12/09
		7-PTE-11/24/09
		7-PTE-12/10/09
		7-PTE-12/22/09
		7-PTI-10/15/09
		7-PTI-10/15/09 (FD)
	MBS PTI-10/15/09	MAFB-419
		MAFB-436
		MAFB-439
		MBS PTE AF-10/15/09
		MBS PTI-10/15/09
		MBS PTI-10/15/09 (FD)
USEPA 6010 ICP Metals	7-BV-02	7-BV-01
		7-BV-02
		7-BV-02 (FD)
		7-BV-04
		7-BV-06
		7-BV-07

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		7-BV-08
	7-PTI-10/15/09	7-PTE-10/15/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD)
USEPA 6010 ICP Metals (continued)	7-PZ-37P	7-PZ-37P 7-PZ-37P (FD) MAFB-284 MAFB-413 MAFB-424
	ACW PTI-10/15/09	ACW PTE-10/15/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD)
	MAFB-133	MAFB-111 MAFB-129 MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-288 MAFB-398 MAFB-398C MAFB-399 MAFB-400
	MBS PTI-10/15/09	MAFB-439 MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD)
USEPA 6020 Thallium	7-PZ-37P	7-PZ-37P 7-PZ-37P (FD) MAFB-284 MAFB-413 MAFB-424
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-398 MAFB-398C MAFB-399 MAFB-400

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
	MBS PTI-10/15/09	MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD)
USEPA 7196 Hexavalent Chromium	7-PZ-37P	7-PZ-37P 7-PZ-37P (FD)
USEPA 7196 Hexavalent Chromium	7-PZ-37P (continued)	MAFB-149 MAFB-284 MAFB-413 MAFB-424
USEPA 7470 Mercury	7-PZ-37P	7-PZ-37P 7-PZ-37P (FD) MAFB-413 MAFB-424
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-284 MAFB-398 MAFB-398C MAFB-399 MAFB-400
	MBS PTI-10/15/09	MBS PTE AF-10/15/09 MBS PTI-10/15/09 MBS PTI-10/15/09 (FD)
USEPA 8260 VOCs	7-PTI-10/15/09	7-PTE-10/01/09 7-PTE-10/15/09 7-PTE-10/29/09 7-PTE-11/12/09 7-PTE-11/24/09 7-PTE-12/10/09 7-PTE-12/22/09 7-PTI-10/15/09 7-PTI-10/15/09 (FD) MAFB-444 MAFB-445 MAFB-446 MAFB-446 (FD) MAFB-447 MAFB-448
	7-PZ-37P	7-BV-01

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 8260 VOCs	7-PZ-37P (continued)	7-BV-02 7-BV-04 7-BV-06 7-BV-07 7-BV-08 7-BV-13 7-PZ-37P 7-PZ-37P (FD) MAFB-044 MAFB-284 MAFB-413 MAFB-424
	ACW PTI-10/15/09	ACW PTE-10/01/09 ACW PTE-10/15/09 ACW PTE-10/29/09 ACW PTE-11/12/09 ACW PTE-11/24/09 ACW PTE-12/10/09 ACW PTE-12/22/09 ACW PTI-10/15/09 ACW PTI-10/15/09 (FD) ACW PZ-05 ACW R2 MAFB-433 MAFB-433 (FD) MAFB-453 MAFB-453C MAFB-454 MAFB-454C MAFB-455 MAFB-456 MAFB-456C
	MAFB-133	MAFB-132 MAFB-133 MAFB-133 (FD) MAFB-136 MAFB-149 MAFB-398 MAFB-398C MAFB-399 MAFB-400
	MAFB-378D	MAFB-318 MAFB-354B MAFB-354D

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
USEPA 8260 VOCs	MAFB-378D (continued)	MAFB-378B MAFB-378B (FD) MAFB-378D MAFB-388Ds MAFB-426 MAFB-435 MAFB-438 MAFB-443 MAFB-449Bd MAFB-449Bs MAFB-457Bd MAFB-457Bs MAFB-457Bs (FD) MAFB-458Bd MAFB-458Bs MAFB-459D MAFB-459Dd
	MAFB-439	FFS EW15-1 FFS EW15-2 FFS MW15-1 FFS MW15-2 FFS MW15-3 MAFB-293 MAFB-397 MAFB-434Bd MAFB-434Bd (FD) MAFB-439 MAFB-439 (FD) MAFB-441 MAFB-442 MAFB-450 MAFB-451 MAFB-452B MAFB-452Bu OFB-72 OFB-80 OFB-85
	MBS PTI-10/15/09	MAFB-296 MAFB-382B MAFB-436 MAFB-460Bd MAFB-460Bs MAFB-461Bd MAFB-461Bs MBS EW-13BuB

TABLE 5-1.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE BATCH SUMMARY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 10)

Analytical Method	Designated Matrix Spike Sample	Associated Samples
		MBS PTE AF-10/01/09
		MBS PTE AF-10/15/09
		MBS PTE AF-10/29/09
		MBS PTE AF-11/12/09
		MBS PTE AF-11/24/09
		MBS PTE AF-12/10/09
		MBS PTE AF-12/22/09
		MBS PTI-10/15/09
		MBS PTI-10/15/09 (FD)

Notes:
FD - Field Duplicate
ICP - Inductively Coupled Plasma
NA - Not Applicable
SM - Standard Methods
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
C091106A	1,1,1-Trichloroethane	109	67-132	yes
	1,1,2,2-Tetrachloroethane	98	63-128	yes
	1,1,2-Trichloroethane	105	75-125	yes
	1,1-Dichloroethane	103	69-133	yes
	1,1-Dichloroethene	103	68-130	yes
	1,2-Dichlorobenzene	99	71-122	yes
	1,2-Dichloroethane	106	69-132	yes
	1,2-Dichloropropane	103	75-125	yes
	1,3-Dichlorobenzene	93	75-124	yes
	1,4-Dichlorobenzene	95	74-123	yes
	Benzene	106	81-122	yes
	Bromodichloromethane	103	76-121	yes
	Bromoform	102	69-128	yes
	Bromomethane	105	30-141	yes
	Carbon tetrachloride	116	66-138	yes
	Chlorobenzene	99	81-122	yes
	Chloroethane	104	58-133	yes
	Chloroform	102	69-128	yes
	Chloromethane	86	56-131	yes
	cis-1,2-Dichloroethene	111	72-126	yes
	cis-1,3-Dichloropropene	107	69-131	yes
	Dibromochloromethane	102	66-133	yes
	Dichlorodifluoromethane	107	30-153	yes
	Ethylbenzene	94	73-127	yes
	Methylene chloride	109	63-137	yes
	Tetrachloroethene	96	66-128	yes
	Toluene	97	77-122	yes
	trans-1,2-Dichloroethene	98	63-137	yes
	trans-1,3-Dichloropropene	105	59-135	yes
	Trichloroethene	119	70-127	yes
	Trichlorofluoromethane	108	57-129	yes
	Vinyl chloride	105	50-134	yes
	Xylenes, total	98	76-128	yes
C091106B	1,1-Dichloroethene	105	68-130	yes
	1,2-Dichloroethane	111	69-132	yes
	1,2-Dichloropropane	105	75-125	yes
	1,4-Dichlorobenzene	88	74-123	yes
	Carbon tetrachloride	115	66-138	yes
	Chloroform	111	69-128	yes
	Chloromethane	84	56-131	yes
	cis-1,2-Dichloroethene	105	72-126	yes
	Tetrachloroethene	93	66-128	yes
	Trichloroethene	106	70-127	yes
	Vinyl chloride	99	50-134	yes
C091109A	1,1,1-Trichloroethane	107	67-132	yes
	1,1,2,2-Tetrachloroethane	93	63-128	yes
	1,1,2-Trichloroethane	96	75-125	yes
	1,1-Dichloroethane	103	69-133	yes
	1,1-Dichloroethene	103	68-130	yes
	1,2-Dichlorobenzene	84	71-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichloroethane	107	69-132	yes
	1,2-Dichloropropane	105	75-125	yes
	1,3-Dichlorobenzene	86	75-124	yes
	1,4-Dichlorobenzene	91	74-123	yes
	Benzene	98	81-122	yes
	Bromodichloromethane	109	76-121	yes
	Bromoform	96	69-128	yes
	Bromomethane	95	30-141	yes
	Carbon tetrachloride	116	66-138	yes
	Chlorobenzene	92	81-122	yes
	Chloroethane	100	58-133	yes
	Chloroform	103	69-128	yes
	Chloromethane	80	56-131	yes
	cis-1,2-Dichloroethene	104	72-126	yes
	cis-1,3-Dichloropropene	112	69-131	yes
	Dibromochloromethane	89	66-133	yes
	Dichlorodifluoromethane	92	30-153	yes
	Ethylbenzene	90	73-127	yes
	Methylene chloride	100	63-137	yes
	Tetrachloroethene	88	66-128	yes
	Toluene	96	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	105	59-135	yes
	Trichloroethene	100	70-127	yes
	Trichlorofluoromethane	90	57-129	yes
	Vinyl chloride	89	50-134	yes
	Xylenes, total	92	76-128	yes
H091015A	1,1,1-Trichloroethane	105	67-132	yes
	1,1,2,2-Tetrachloroethane	120	63-128	yes
	1,1,2-Trichloroethane	115	75-125	yes
	1,1-Dichloroethane	113	69-133	yes
	1,1-Dichloroethene	94	68-130	yes
	1,2-Dichlorobenzene	109	71-122	yes
	1,2-Dichloroethane	116	69-132	yes
	1,2-Dichloropropane	109	75-125	yes
	1,3-Dichlorobenzene	105	75-124	yes
	1,4-Dichlorobenzene	104	74-123	yes
	Benzene	104	81-122	yes
H091015A	Bromodichloromethane	117	76-121	yes
(continued)	Bromoform	105	69-128	yes
	Bromomethane	82	30-141	yes
	Carbon tetrachloride	114	66-138	yes
	Chlorobenzene	106	81-122	yes
	Chloroethane	104	58-133	yes
	Chloroform	112	69-128	yes
	Chloromethane	85	56-131	yes
	cis-1,2-Dichloroethene	111	72-126	yes
	cis-1,3-Dichloropropene	94	69-131	yes
	Dibromochloromethane	119	66-133	yes
	Dichlorodifluoromethane	90	30-153	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Ethylbenzene	104	73-127	yes
	Methylene chloride	91	63-137	yes
	Tetrachloroethene	92	66-128	yes
	Toluene	107	77-122	yes
	trans-1,2-Dichloroethene	101	63-137	yes
	trans-1,3-Dichloropropene	115	59-135	yes
	Trichloroethene	102	70-127	yes
	Trichlorofluoromethane	104	57-129	yes
	Vinyl chloride	112	50-134	yes
	Xylenes, total	106	76-128	yes
H091016A	1,1,1-Trichloroethane	100	67-132	yes
	1,1,2,2-Tetrachloroethane	115	63-128	yes
	1,1,2-Trichloroethane	113	75-125	yes
	1,1-Dichloroethane	106	69-133	yes
	1,1-Dichloroethene	93	68-130	yes
	1,2-Dichlorobenzene	105	71-122	yes
	1,2-Dichloroethane	111	69-132	yes
	1,2-Dichloropropane	105	75-125	yes
	1,3-Dichlorobenzene	102	75-124	yes
	1,4-Dichlorobenzene	103	74-123	yes
	Benzene	100	81-122	yes
	Bromodichloromethane	115	76-121	yes
	Bromoform	103	69-128	yes
	Bromomethane	84	30-141	yes
	Carbon tetrachloride	108	66-138	yes
	Chlorobenzene	104	81-122	yes
	Chloroethane	101	58-133	yes
	Chloroform	110	69-128	yes
	Chloromethane	86	56-131	yes
	cis-1,2-Dichloroethene	104	72-126	yes
	cis-1,3-Dichloropropene	87	69-131	yes
	Dibromochloromethane	114	66-133	yes
H091016A (continued)	Dichlorodifluoromethane	88	30-153	yes
	Ethylbenzene	101	73-127	yes
	Methylene chloride	85	63-137	yes
	Tetrachloroethene	92	66-128	yes
	Toluene	103	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	112	59-135	yes
	Trichloroethene	100	70-127	yes
	Trichlorofluoromethane	98	57-129	yes
	Vinyl chloride	107	50-134	yes
	Xylenes, total	104	76-128	yes
H091017A	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	115	63-128	yes
	1,1,2-Trichloroethane	113	75-125	yes
	1,1-Dichloroethane	106	69-133	yes
	1,1-Dichloroethene	93	68-130	yes
	1,2-Dichlorobenzene	105	71-122	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichloroethane	114	69-132	yes
	1,2-Dichloropropane	110	75-125	yes
	1,3-Dichlorobenzene	100	75-124	yes
	1,4-Dichlorobenzene	103	74-123	yes
	Benzene	102	81-122	yes
	Bromodichloromethane	115	76-121	yes
	Bromoform	97	69-128	yes
	Bromomethane	81	30-141	yes
	Carbon tetrachloride	107	66-138	yes
	Chlorobenzene	101	81-122	yes
	Chloroethane	99	58-133	yes
	Chloroform	109	69-128	yes
	Chloromethane	88	56-131	yes
	cis-1,2-Dichloroethene	105	72-126	yes
	cis-1,3-Dichloropropene	87	69-131	yes
	Dibromochloromethane	111	66-133	yes
	Dichlorodifluoromethane	82	30-153	yes
	Ethylbenzene	98	73-127	yes
	Methylene chloride	88	63-137	yes
	Tetrachloroethene	91	66-128	yes
	Toluene	102	77-122	yes
	trans-1,2-Dichloroethene	96	63-137	yes
	trans-1,3-Dichloropropene	109	59-135	yes
	Trichloroethene	100	70-127	yes
	Trichlorofluoromethane	93	57-129	yes
	Vinyl chloride	111	50-134	yes
	Xylenes, total	100	76-128	yes
H091023B	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	100	75-125	yes
	1,1-Dichloroethane	103	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	100	69-132	yes
	1,2-Dichloropropane	103	75-125	yes
	1,3-Dichlorobenzene	96	75-124	yes
	1,4-Dichlorobenzene	94	74-123	yes
	Benzene	97	81-122	yes
	Bromodichloromethane	100	76-121	yes
	Bromoform	94	69-128	yes
	Bromomethane	97	30-141	yes
	Carbon tetrachloride	102	66-138	yes
	Chlorobenzene	93	81-122	yes
	Chloroethane	83	58-133	yes
	Chloroform	101	69-128	yes
	Chloromethane	92	56-131	yes
	cis-1,2-Dichloroethene	101	72-126	yes
	cis-1,3-Dichloropropene	97	69-131	yes
	Dibromochloromethane	97	66-133	yes
	Dichlorodifluoromethane	101	30-153	yes
	Ethylbenzene	93	73-127	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Methylene chloride	87	63-137	yes
	Tetrachloroethene	95	66-128	yes
	Toluene	96	77-122	yes
	trans-1,2-Dichloroethene	102	63-137	yes
	trans-1,3-Dichloropropene	98	59-135	yes
	Trichloroethene	95	70-127	yes
	Trichlorofluoromethane	101	57-129	yes
	Vinyl chloride	105	50-134	yes
	Xylenes, total	93	76-128	yes
M091002A	1,1,1-Trichloroethane	95	67-132	yes
	1,1,2,2-Tetrachloroethane	93	63-128	yes
	1,1,2-Trichloroethane	97	75-125	yes
	1,1-Dichloroethane	91	69-133	yes
	1,1-Dichloroethene	91	68-130	yes
	1,2-Dichlorobenzene	93	71-122	yes
	1,2-Dichloroethane	100	69-132	yes
	1,2-Dichloropropane	92	75-125	yes
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	91	74-123	yes
	Benzene	95	81-122	yes
M091002A (continued)	Bromodichloromethane	93	76-121	yes
	Bromoform	87	69-128	yes
	Bromomethane	92	30-141	yes
	Carbon tetrachloride	96	66-138	yes
	Chlorobenzene	96	81-122	yes
	Chloroethane	85	58-133	yes
	Chloroform	95	69-128	yes
	Chloromethane	82	56-131	yes
	cis-1,2-Dichloroethene	94	72-126	yes
	cis-1,3-Dichloropropene	94	69-131	yes
	Dibromochloromethane	88	66-133	yes
	Dichlorodifluoromethane	100	30-153	yes
	Ethylbenzene	94	73-127	yes
	Methylene chloride	94	63-137	yes
	Tetrachloroethene	87	66-128	yes
	Toluene	97	77-122	yes
	trans-1,2-Dichloroethene	89	63-137	yes
	trans-1,3-Dichloropropene	94	59-135	yes
	Trichloroethene	93	70-127	yes
	Trichlorofluoromethane	104	57-129	yes
	Vinyl chloride	94	50-134	yes
	Xylenes, total	94	76-128	yes
M091030A	1,1,1-Trichloroethane	101	67-132	yes
	1,1,2,2-Tetrachloroethane	93	63-128	yes
	1,1,2-Trichloroethane	101	75-125	yes
	1,1-Dichloroethane	100	69-133	yes
	1,1-Dichloroethene	99	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	97	69-132	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	97	75-124	yes
	1,4-Dichlorobenzene	94	74-123	yes
	Benzene	96	81-122	yes
	Bromodichloromethane	102	76-121	yes
	Bromoform	101	69-128	yes
	Bromomethane	92	30-141	yes
	Carbon tetrachloride	104	66-138	yes
	Chlorobenzene	97	81-122	yes
	Chloroethane	102	58-133	yes
	Chloroform	97	69-128	yes
	Chloromethane	102	56-131	yes
	cis-1,2-Dichloroethene	99	72-126	yes
	cis-1,3-Dichloropropene	105	69-131	yes
	Dibromochloromethane	96	66-133	yes
M091030A	Dichlorodifluoromethane	101	30-153	yes
(continued)	Ethylbenzene	100	73-127	yes
	Methylene chloride	95	63-137	yes
	Tetrachloroethene	95	66-128	yes
	Toluene	100	77-122	yes
	trans-1,2-Dichloroethene	98	63-137	yes
	trans-1,3-Dichloropropene	104	59-135	yes
	Trichloroethene	98	70-127	yes
	Trichlorofluoromethane	112	57-129	yes
	Vinyl chloride	107	50-134	yes
	Xylenes, total	100	76-128	yes
M091102A	1,1,1-Trichloroethane	105	67-132	yes
	1,1,2,2-Tetrachloroethane	91	63-128	yes
	1,1,2-Trichloroethane	104	75-125	yes
	1,1-Dichloroethane	105	69-133	yes
	1,1-Dichloroethene	105	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	103	69-132	yes
	1,2-Dichloropropane	103	75-125	yes
	1,3-Dichlorobenzene	98	75-124	yes
	1,4-Dichlorobenzene	97	74-123	yes
	Benzene	100	81-122	yes
	Bromodichloromethane	107	76-121	yes
	Bromoform	104	69-128	yes
	Bromomethane	98	30-141	yes
	Carbon tetrachloride	104	66-138	yes
	Chlorobenzene	100	81-122	yes
	Chloroethane	108	58-133	yes
	Chloroform	105	69-128	yes
	Chloromethane	100	56-131	yes
	cis-1,2-Dichloroethene	101	72-126	yes
	cis-1,3-Dichloropropene	108	69-131	yes
	Dibromochloromethane	98	66-133	yes
	Dichlorodifluoromethane	100	30-153	yes
	Ethylbenzene	100	73-127	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Methylene chloride	106	63-137	yes
	Tetrachloroethene	97	66-128	yes
	Toluene	105	77-122	yes
	trans-1,2-Dichloroethene	102	63-137	yes
	trans-1,3-Dichloropropene	109	59-135	yes
	Trichloroethene	102	70-127	yes
	Trichlorofluoromethane	118	57-129	yes
	Vinyl chloride	113	50-134	yes
	Xylenes, total	101	76-128	yes
M091102B	1,1,1-Trichloroethane	103	67-132	yes
	1,1,2,2-Tetrachloroethane	85	63-128	yes
	1,1,2-Trichloroethane	96	75-125	yes
	1,1-Dichloroethane	100	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	90	71-122	yes
	1,2-Dichloroethane	96	69-132	yes
	1,2-Dichloropropane	98	75-125	yes
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	90	74-123	yes
	Benzene	97	81-122	yes
	Bromodichloromethane	100	76-121	yes
	Bromoform	94	69-128	yes
	Bromomethane	106	30-141	yes
	Carbon tetrachloride	104	66-138	yes
	Chlorobenzene	94	81-122	yes
	Chloroethane	107	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	105	56-131	yes
	cis-1,2-Dichloroethene	98	72-126	yes
	cis-1,3-Dichloropropene	100	69-131	yes
	Dibromochloromethane	89	66-133	yes
	Dichlorodifluoromethane	95	30-153	yes
	Ethylbenzene	96	73-127	yes
	Methylene chloride	96	63-137	yes
	Tetrachloroethene	89	66-128	yes
	Toluene	100	77-122	yes
	trans-1,2-Dichloroethene	101	63-137	yes
	trans-1,3-Dichloropropene	98	59-135	yes
	Trichloroethene	98	70-127	yes
	Trichlorofluoromethane	113	57-129	yes
	Vinyl chloride	112	50-134	yes
	Xylenes, total	96	76-128	yes
M091103A	1,1,1-Trichloroethane	108	67-132	yes
	1,1,2,2-Tetrachloroethane	93	63-128	yes
	1,1,2-Trichloroethane	108	75-125	yes
	1,1-Dichloroethane	106	69-133	yes
	1,1-Dichloroethene	105	68-130	yes
	1,2-Dichlorobenzene	92	71-122	yes
	1,2-Dichloroethane	108	69-132	yes
	1,2-Dichloropropane	103	75-125	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 8 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,3-Dichlorobenzene	92	75-124	yes
	1,4-Dichlorobenzene	89	74-123	yes
	Benzene	100	81-122	yes
M091103A	Bromodichloromethane	109	76-121	yes
(continued)	Bromoform	102	69-128	yes
	Bromomethane	94	30-141	yes
	Carbon tetrachloride	109	66-138	yes
	Chlorobenzene	95	81-122	yes
	Chloroethane	115	58-133	yes
	Chloroform	106	69-128	yes
	Chloromethane	104	56-131	yes
	cis-1,2-Dichloroethene	101	72-126	yes
	cis-1,3-Dichloropropene	107	69-131	yes
	Dibromochloromethane	97	66-133	yes
	Dichlorodifluoromethane	102	30-153	yes
	Ethylbenzene	95	73-127	yes
	Methylene chloride	105	63-137	yes
	Tetrachloroethene	91	66-128	yes
	Toluene	103	77-122	yes
	trans-1,2-Dichloroethene	103	63-137	yes
	trans-1,3-Dichloropropene	110	59-135	yes
	Trichloroethene	102	70-127	yes
	Trichlorofluoromethane	113	57-129	yes
	Vinyl chloride	114	50-134	yes
	Xylenes, total	95	76-128	yes
M091106A	1,1-Dichloroethene	94	68-130	yes
	1,2-Dichloroethane	105	69-132	yes
	1,2-Dichloropropane	102	75-125	yes
	1,4-Dichlorobenzene	104	74-123	yes
	Carbon tetrachloride	108	66-138	yes
	Chloroform	104	69-128	yes
	Chloromethane	107	56-131	yes
	cis-1,2-Dichloroethene	99	72-126	yes
	Tetrachloroethene	96	66-128	yes
	Trichloroethene	100	70-127	yes
	Vinyl chloride	113	50-134	yes
M091113A	1,1,1-Trichloroethane	101	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	94	75-125	yes
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	99	71-122	yes
	1,2-Dichloroethane	90	69-132	yes
	1,2-Dichloropropane	99	75-125	yes
	1,3-Dichlorobenzene	101	75-124	yes
	1,4-Dichlorobenzene	98	74-123	yes
M091113A	Benzene	101	81-122	yes
(continued)	Bromodichloromethane	98	76-121	yes
	Bromoform	98	69-128	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 9 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromomethane	87	30-141	yes
	Carbon tetrachloride	105	66-138	yes
	Chlorobenzene	102	81-122	yes
	Chloroethane	94	58-133	yes
	Chloroform	99	69-128	yes
	Chloromethane	99	56-131	yes
	cis-1,2-Dichloroethene	101	72-126	yes
	cis-1,3-Dichloropropene	96	69-131	yes
	Dibromochloromethane	91	66-133	yes
	Dichlorodifluoromethane	99	30-153	yes
	Ethylbenzene	108	73-127	yes
	Methylene chloride	92	63-137	yes
	Tetrachloroethene	103	66-128	yes
	Toluene	103	77-122	yes
	trans-1,2-Dichloroethene	99	63-137	yes
	trans-1,3-Dichloropropene	96	59-135	yes
	Trichloroethene	101	70-127	yes
	Trichlorofluoromethane	106	57-129	yes
	Vinyl chloride	109	50-134	yes
	Xylenes, total	108	76-128	yes
M091211A	1,1,1-Trichloroethane	99	67-132	yes
	1,1,2,2-Tetrachloroethane	101	63-128	yes
	1,1,2-Trichloroethane	101	75-125	yes
	1,1-Dichloroethane	100	69-133	yes
	1,1-Dichloroethene	99	68-130	yes
	1,2-Dichlorobenzene	104	71-122	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	97	75-125	yes
	1,3-Dichlorobenzene	103	75-124	yes
	1,4-Dichlorobenzene	103	74-123	yes
	Benzene	99	81-122	yes
	Bromodichloromethane	100	76-121	yes
	Bromoform	96	69-128	yes
	Bromomethane	117	30-141	yes
	Carbon tetrachloride	98	66-138	yes
	Chlorobenzene	102	81-122	yes
	Chloroethane	98	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	105	56-131	yes
	cis-1,2-Dichloroethene	94	72-126	yes
	cis-1,3-Dichloropropene	99	69-131	yes
M091211A	Dibromochloromethane	94	66-133	yes
(continued)	Dichlorodifluoromethane	111	30-153	yes
	Ethylbenzene	99	73-127	yes
	Methylene chloride	96	63-137	yes
	Tetrachloroethene	100	66-128	yes
	Toluene	99	77-122	yes
	trans-1,2-Dichloroethene	97	63-137	yes
	trans-1,3-Dichloropropene	98	59-135	yes
	Trichloroethene	100	70-127	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 10 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Trichlorofluoromethane	94	57-129	yes
	Vinyl chloride	98	50-134	yes
	Xylenes, total	102	76-128	yes
M091223A	1,1,1-Trichloroethane	95	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	95	75-125	yes
	1,1-Dichloroethane	95	69-133	yes
	1,1-Dichloroethene	97	68-130	yes
	1,2-Dichlorobenzene	100	71-122	yes
	1,2-Dichloroethane	94	69-132	yes
	1,2-Dichloropropane	94	75-125	yes
	1,3-Dichlorobenzene	101	75-124	yes
	1,4-Dichlorobenzene	101	74-123	yes
	Benzene	95	81-122	yes
	Bromodichloromethane	96	76-121	yes
	Bromoform	87	69-128	yes
	Bromomethane	95	30-141	yes
	Carbon tetrachloride	96	66-138	yes
	Chlorobenzene	98	81-122	yes
	Chloroethane	97	58-133	yes
	Chloroform	97	69-128	yes
	Chloromethane	95	56-131	yes
	cis-1,2-Dichloroethene	92	72-126	yes
	cis-1,3-Dichloropropene	96	69-131	yes
	Dibromochloromethane	94	66-133	yes
	Dichlorodifluoromethane	103	30-153	yes
	Ethylbenzene	100	73-127	yes
	Methylene chloride	92	63-137	yes
	Tetrachloroethene	97	66-128	yes
	Toluene	95	77-122	yes
	trans-1,2-Dichloroethene	94	63-137	yes
	trans-1,3-Dichloropropene	93	59-135	yes
	Trichloroethene	99	70-127	yes
	Trichlorofluoromethane	94	57-129	yes
	Vinyl chloride	103	50-134	yes
M091223A (continued)	Xylenes, total	102	76-128	yes
N091201A	1,1,1-Trichloroethane	115	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	111	75-125	yes
	1,1-Dichloroethane	106	69-133	yes
	1,1-Dichloroethene	112	68-130	yes
	1,2-Dichlorobenzene	100	71-122	yes
	1,2-Dichloroethane	107	69-132	yes
	1,2-Dichloropropane	116	75-125	yes
	1,3-Dichlorobenzene	102	75-124	yes
	1,4-Dichlorobenzene	99	74-123	yes
	Benzene	106	81-122	yes
	Bromodichloromethane	106	76-121	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 11 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromoform	106	69-128	yes
	Bromomethane	98	30-141	yes
	Carbon tetrachloride	110	66-138	yes
	Chlorobenzene	95	81-122	yes
	Chloroethane	84	58-133	yes
	Chloroform	112	69-128	yes
	Chloromethane	101	56-131	yes
	cis-1,2-Dichloroethene	94	72-126	yes
	cis-1,3-Dichloropropene	96	69-131	yes
	Dibromochloromethane	108	66-133	yes
	Dichlorodifluoromethane	80	30-153	yes
	Ethylbenzene	108	73-127	yes
	Methylene chloride	97	63-137	yes
	Tetrachloroethene	96	66-128	yes
	Toluene	119	77-122	yes
	trans-1,2-Dichloroethene	109	63-137	yes
	trans-1,3-Dichloropropene	117	59-135	yes
	Trichloroethene	107	70-127	yes
	Trichlorofluoromethane	89	57-129	yes
	Vinyl chloride	103	50-134	yes
	Xylenes, total	104	76-128	yes
N091202A	1,1,1-Trichloroethane	104	67-132	yes
	1,1,2,2-Tetrachloroethane	107	63-128	yes
	1,1,2-Trichloroethane	89	75-125	yes
	1,1-Dichloroethane	98	69-133	yes
	1,1-Dichloroethene	107	68-130	yes
	1,2-Dichlorobenzene	96	71-122	yes
	1,2-Dichloroethane	102	69-132	yes
	1,2-Dichloropropane	106	75-125	yes
N091202A (continued)	1,3-Dichlorobenzene	93	75-124	yes
	1,4-Dichlorobenzene	90	74-123	yes
	Benzene	95	81-122	yes
	Bromodichloromethane	101	76-121	yes
	Bromoform	96	69-128	yes
	Bromomethane	100	30-141	yes
	Carbon tetrachloride	104	66-138	yes
	Chlorobenzene	84	81-122	yes
	Chloroethane	86	58-133	yes
	Chloroform	104	69-128	yes
	Chloromethane	105	56-131	yes
	cis-1,2-Dichloroethene	89	72-126	yes
	cis-1,3-Dichloropropene	95	69-131	yes
	Dibromochloromethane	84	66-133	yes
	Dichlorodifluoromethane	93	30-153	yes
	Ethylbenzene	81	73-127	yes
	Methylene chloride	90	63-137	yes
	Tetrachloroethene	83	66-128	yes
	Toluene	88	77-122	yes
	trans-1,2-Dichloroethene	97	63-137	yes
	trans-1,3-Dichloropropene	95	59-135	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 12 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Trichloroethene	98	70-127	yes
	Trichlorofluoromethane	93	57-129	yes
	Vinyl chloride	106	50-134	yes
	Xylenes, total	89	76-128	yes
N091203A	1,1,1-Trichloroethane	105	67-132	yes
	1,1,2,2-Tetrachloroethane	93	63-128	yes
	1,1,2-Trichloroethane	94	75-125	yes
	1,1-Dichloroethane	99	69-133	yes
	1,1-Dichloroethene	104	68-130	yes
	1,2-Dichlorobenzene	92	71-122	yes
	1,2-Dichloroethane	99	69-132	yes
	1,2-Dichloropropane	86	75-125	yes
	1,3-Dichlorobenzene	93	75-124	yes
	1,4-Dichlorobenzene	92	74-123	yes
	Benzene	91	81-122	yes
	Bromodichloromethane	99	76-121	yes
	Bromoform	86	69-128	yes
	Bromomethane	89	30-141	yes
	Carbon tetrachloride	83	66-138	yes
	Chlorobenzene	91	81-122	yes
	Chloroethane	94	58-133	yes
	Chloroform	100	69-128	yes
	Chloromethane	84	56-131	yes
N091203A	cis-1,2-Dichloroethene	88	72-126	yes
(continued)	cis-1,3-Dichloropropene	87	69-131	yes
	Dibromochloromethane	97	66-133	yes
	Dichlorodifluoromethane	82	30-153	yes
	Ethylbenzene	88	73-127	yes
	Methylene chloride	89	63-137	yes
	Tetrachloroethene	83	66-128	yes
	Toluene	108	77-122	yes
	trans-1,2-Dichloroethene	102	63-137	yes
	trans-1,3-Dichloropropene	101	59-135	yes
	Trichloroethene	94	70-127	yes
	Trichlorofluoromethane	94	57-129	yes
	Vinyl chloride	103	50-134	yes
	Xylenes, total	86	76-128	yes
S091103A	1,1,1-Trichloroethane	116	67-132	yes
	1,1,2,2-Tetrachloroethane	97	63-128	yes
	1,1,2-Trichloroethane	99	75-125	yes
	1,1-Dichloroethane	105	69-133	yes
	1,1-Dichloroethene	101	68-130	yes
	1,2-Dichlorobenzene	99	71-122	yes
	1,2-Dichloroethane	111	69-132	yes
	1,2-Dichloropropane	105	75-125	yes
	1,3-Dichlorobenzene	97	75-124	yes
	1,4-Dichlorobenzene	99	74-123	yes
	Benzene	98	81-122	yes
	Bromodichloromethane	105	76-121	yes

TABLE 5-2.1

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 13 of 13)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromoform	103	69-128	yes
	Bromomethane	97	30-141	yes
	Carbon tetrachloride	100	66-138	yes
	Chlorobenzene	100	81-122	yes
	Chloroethane	91	58-133	yes
	Chloroform	103	69-128	yes
	Chloromethane	106	56-131	yes
	cis-1,2-Dichloroethene	97	72-126	yes
	cis-1,3-Dichloropropene	97	69-131	yes
	Dibromochloromethane	106	66-133	yes
	Dichlorodifluoromethane	118	30-153	yes
	Ethylbenzene	104	73-127	yes
	Methylene chloride	107	63-137	yes
	Tetrachloroethene	113	66-128	yes
	Toluene	106	77-122	yes
	trans-1,2-Dichloroethene	101	63-137	yes
	trans-1,3-Dichloropropene	99	59-135	yes
	Trichloroethene	113	70-127	yes
S091103A	Trichlorofluoromethane	113	57-129	yes
(continued)	Vinyl chloride	100	50-134	yes
	Xylenes, total	103	76-128	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 7)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
C091017A	1,1,1,2-Tetrachloroethane	87	80-120	yes
	1,1,1-Trichloroethane	95	80-120	yes
	1,1,2,2-Tetrachloroethane	89	80-120	yes
	1,1,2-Trichloroethane	89	80-120	yes
	1,1-Dichloroethane	92	80-120	yes
	1,1-Dichloroethene	92	80-120	yes
	1,1-Dichloropropene	98	80-120	yes
	1,2,3-Trichlorobenzene	94	80-120	yes
	1,2,3-Trichloropropane	88	80-120	yes
	1,2,4-Trichlorobenzene	91	80-120	yes
	1,2,4-Trimethylbenzene	89	80-120	yes
	1,2-Dibromo-3-chloropropane	81	80-120	yes
	1,2-Dibromoethane	95	80-120	yes
	1,2-Dichlorobenzene	89	80-120	yes
	1,2-Dichloroethane	88	80-120	yes
	1,2-Dichloropropane	85	80-120	yes
	1,3,5-Trimethylbenzene	88	80-120	yes
	1,3-Dichlorobenzene	93	80-120	yes
	1,3-Dichloropropane	90	80-120	yes
	1,4-Dichlorobenzene	97	80-120	yes
	2,2-Dichloropropane	87	80-120	yes
	2-Chlorotoluene	92	80-120	yes
	4-Chlorotoluene	86	80-120	yes
	Benzene	91	80-120	yes
	Bromobenzene	93	80-120	yes
	Bromochloromethane	84	80-120	yes
	Bromodichloromethane	89	80-120	yes
	Bromoform	92	80-120	yes
	Bromomethane	90	80-120	yes
	Carbon tetrachloride	93	80-120	yes
	Chlorobenzene	91	80-120	yes
	Chloroethane	91	80-120	yes
	Chloroform	91	80-120	yes
	Chloromethane	92	80-120	yes
	cis-1,2-Dichloroethene	87	80-120	yes
	cis-1,3-Dichloropropene	94	80-120	yes
	Dibromochloromethane	112	80-120	yes
	Dibromomethane	83	80-120	yes
	Dichlorodifluoromethane	97	80-120	yes
	Ethylbenzene	90	80-120	yes
	Hexachlorobutadiene	106	80-120	yes
	Isopropylbenzene	89	80-120	yes
	Methylene chloride	89	80-120	yes
	n-Butylbenzene	90	80-120	yes
	n-Propylbenzene	89	80-120	yes
C091017A (continued)	Naphthalene	87	80-120	yes
	p-Isopropyltoluene	94	80-120	yes
	sec-Butylbenzene	94	80-120	yes
	Styrene	91	80-120	yes
	t-Butylbenzene	91	80-120	yes
	Tetrachloroethene	100	80-120	yes
	Toluene	95	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 7)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	trans-1,2-Dichloroethene	92	80-120	yes
	trans-1,3-Dichloropropene	85	80-120	yes
	Trichloroethene	98	80-120	yes
	Trichlorofluoromethane	102	80-120	yes
	Vinyl chloride	93	80-120	yes
	Xylenes, total	94	80-120	yes
C091021A	1,1,1,2-Tetrachloroethane	102	80-120	yes
	1,1,1-Trichloroethane	108	80-120	yes
	1,1,2,2-Tetrachloroethane	97	80-120	yes
	1,1,2-Trichloroethane	88	80-120	yes
	1,1-Dichloroethane	102	80-120	yes
	1,1-Dichloroethene	112	80-120	yes
	1,1-Dichloropropene	101	80-120	yes
	1,2,3-Trichlorobenzene	92	80-120	yes
	1,2,3-Trichloropropane	88	80-120	yes
	1,2,4-Trichlorobenzene	93	80-120	yes
	1,2,4-Trimethylbenzene	102	80-120	yes
	1,2-Dibromo-3-chloropropane	91	80-120	yes
	1,2-Dibromoethane	97	80-120	yes
	1,2-Dichlorobenzene	97	80-120	yes
	1,2-Dichloroethane	95	80-120	yes
	1,2-Dichloropropane	96	80-120	yes
	1,3,5-Trimethylbenzene	103	80-120	yes
	1,3-Dichlorobenzene	102	80-120	yes
	1,3-Dichloropropane	91	80-120	yes
	1,4-Dichlorobenzene	102	80-120	yes
	2,2-Dichloropropane	107	80-120	yes
	2-Chlorotoluene	99	80-120	yes
	4-Chlorotoluene	102	80-120	yes
	Benzene	100	80-120	yes
	Bromobenzene	99	80-120	yes
	Bromochloromethane	94	80-120	yes
	Bromodichloromethane	99	80-120	yes
	Bromoform	94	80-120	yes
	Bromomethane	112	80-120	yes
	Carbon tetrachloride	99	80-120	yes
	Chlorobenzene	103	80-120	yes
C091021A	Chloroethane	105	80-120	yes
(continued)	Chloroform	103	80-120	yes
	Chloromethane	102	80-120	yes
	cis-1,2-Dichloroethene	103	80-120	yes
	cis-1,3-Dichloropropene	95	80-120	yes
	Dibromochloromethane	93	80-120	yes
	Dibromomethane	85	80-120	yes
	Dichlorodifluoromethane	116	80-120	yes
	Ethylbenzene	106	80-120	yes
	Hexachlorobutadiene	113	80-120	yes
	Isopropylbenzene	102	80-120	yes
	Methylene chloride	88	80-120	yes
	n-Butylbenzene	100	80-120	yes
	n-Propylbenzene	105	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 7)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Naphthalene	93	80-120	yes
	p-Isopropyltoluene	106	80-120	yes
	sec-Butylbenzene	109	80-120	yes
	Styrene	103	80-120	yes
	t-Butylbenzene	97	80-120	yes
	Tetrachloroethene	103	80-120	yes
	Toluene	103	80-120	yes
	trans-1,2-Dichloroethene	102	80-120	yes
	trans-1,3-Dichloropropene	91	80-120	yes
	Trichloroethene	99	80-120	yes
	Trichlorofluoromethane	118	80-120	yes
	Vinyl chloride	109	80-120	yes
	Xylenes, total	104	80-120	yes
H091109A	1,1,1,2-Tetrachloroethane	100	80-120	yes
	1,1,1-Trichloroethane	98	80-120	yes
	1,1,2,2-Tetrachloroethane	84	80-120	yes
	1,1,2-Trichloroethane	96	80-120	yes
	1,1-Dichloroethane	98	80-120	yes
	1,1-Dichloroethene	105	80-120	yes
	1,1-Dichloropropene	103	80-120	yes
	1,2,3-Trichlorobenzene	96	80-120	yes
	1,2,3-Trichloropropane	90	80-120	yes
	1,2,4-Trichlorobenzene	93	80-120	yes
	1,2,4-Trimethylbenzene	101	80-120	yes
	1,2-Dibromo-3-chloropropane	81	80-120	yes
	1,2-Dibromoethane	94	80-120	yes
	1,2-Dichlorobenzene	97	80-120	yes
	1,2-Dichloroethane	96	80-120	yes
	1,2-Dichloropropane	95	80-120	yes
	1,3,5-Trimethylbenzene	103	80-120	yes
H091109A (continued)	1,3-Dichlorobenzene	99	80-120	yes
	1,3-Dichloropropane	96	80-120	yes
	1,4-Dichlorobenzene	101	80-120	yes
	2,2-Dichloropropane	90	80-120	yes
	2-Chlorotoluene	99	80-120	yes
	4-Chlorotoluene	97	80-120	yes
	Benzene	101	80-120	yes
	Bromobenzene	97	80-120	yes
	Bromochloromethane	98	80-120	yes
	Bromodichloromethane	99	80-120	yes
	Bromoform	93	80-120	yes
	Bromomethane	87	80-120	yes
	Carbon tetrachloride	105	80-120	yes
	Chlorobenzene	99	80-120	yes
	Chloroethane	100	80-120	yes
	Chloroform	102	80-120	yes
	Chloromethane	95	80-120	yes
	cis-1,2-Dichloroethene	98	80-120	yes
	cis-1,3-Dichloropropene	107	80-120	yes
	Dibromochloromethane	97	80-120	yes
	Dibromomethane	94	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 4 of 7)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Dichlorodifluoromethane	101	80-120	yes
	Ethylbenzene	99	80-120	yes
	Hexachlorobutadiene	98	80-120	yes
	Isopropylbenzene	101	80-120	yes
	Methylene chloride	100	80-120	yes
	n-Butylbenzene	101	80-120	yes
	n-Propylbenzene	98	80-120	yes
	Naphthalene	90	80-120	yes
	p-Isopropyltoluene	98	80-120	yes
	sec-Butylbenzene	101	80-120	yes
	Styrene	104	80-120	yes
	t-Butylbenzene	97	80-120	yes
	Tetrachloroethene	95	80-120	yes
	Toluene	98	80-120	yes
	trans-1,2-Dichloroethene	102	80-120	yes
	trans-1,3-Dichloropropene	105	80-120	yes
	Trichloroethene	99	80-120	yes
	Trichlorofluoromethane	100	80-120	yes
	Vinyl chloride	98	80-120	yes
	Xylenes, total	103	80-120	yes
S091028A	1,1,1,2-Tetrachloroethane	98	80-120	yes
	1,1,1-Trichloroethane	103	80-120	yes
	1,1,2,2-Tetrachloroethane	101	80-120	yes
S091028A	1,1,2-Trichloroethane	95	80-120	yes
(continued)	1,1-Dichloroethane	104	80-120	yes
	1,1-Dichloroethene	102	80-120	yes
	1,1-Dichloropropene	98	80-120	yes
	1,2,3-Trichlorobenzene	110	80-120	yes
	1,2,3-Trichloropropane	111	80-120	yes
	1,2,4-Trichlorobenzene	105	80-120	yes
	1,2,4-Trimethylbenzene	101	80-120	yes
	1,2-Dibromo-3-chloropropane	114	80-120	yes
	1,2-Dibromoethane	102	80-120	yes
	1,2-Dichlorobenzene	101	80-120	yes
	1,2-Dichloroethane	101	80-120	yes
	1,2-Dichloropropane	100	80-120	yes
	1,3,5-Trimethylbenzene	103	80-120	yes
	1,3-Dichlorobenzene	98	80-120	yes
	1,3-Dichloropropane	103	80-120	yes
	1,4-Dichlorobenzene	101	80-120	yes
	2,2-Dichloropropane	95	80-120	yes
	2-Chlorotoluene	99	80-120	yes
	4-Chlorotoluene	96	80-120	yes
	Benzene	93	80-120	yes
	Bromobenzene	100	80-120	yes
	Bromochloromethane	101	80-120	yes
	Bromodichloromethane	105	80-120	yes
	Bromoform	98	80-120	yes
	Bromomethane	98	80-120	yes
	Carbon tetrachloride	96	80-120	yes
	Chlorobenzene	98	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 5 of 7)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Chloroethane	100	80-120	yes
	Chloroform	100	80-120	yes
	Chloromethane	96	80-120	yes
	cis-1,2-Dichloroethene	103	80-120	yes
	cis-1,3-Dichloropropene	99	80-120	yes
	Dibromochloromethane	106	80-120	yes
	Dibromomethane	93	80-120	yes
	Dichlorodifluoromethane	86	80-120	yes
	Ethylbenzene	99	80-120	yes
	Hexachlorobutadiene	119	80-120	yes
	Isopropylbenzene	99	80-120	yes
	Methylene chloride	90	80-120	yes
	n-Butylbenzene	95	80-120	yes
	n-Propylbenzene	99	80-120	yes
	Naphthalene	107	80-120	yes
	p-Isopropyltoluene	96	80-120	yes
	sec-Butylbenzene	98	80-120	yes
S091028A	Styrene	104	80-120	yes
(continued)	t-Butylbenzene	99	80-120	yes
	Tetrachloroethene	105	80-120	yes
	Toluene	105	80-120	yes
	trans-1,2-Dichloroethene	100	80-120	yes
	trans-1,3-Dichloropropene	102	80-120	yes
	Trichloroethene	98	80-120	yes
	Trichlorofluoromethane	96	80-120	yes
	Vinyl chloride	94	80-120	yes
	Xylenes, total	102	80-120	yes
S091127A	1,1,1,2-Tetrachloroethane	96	80-120	yes
	1,1,1-Trichloroethane	102	80-120	yes
	1,1,2,2-Tetrachloroethane	93	80-120	yes
	1,1,2-Trichloroethane	95	80-120	yes
	1,1-Dichloroethane	102	80-120	yes
	1,1-Dichloroethene	109	80-120	yes
	1,1-Dichloropropene	107	80-120	yes
	1,2,3-Trichlorobenzene	90	80-120	yes
	1,2,3-Trichloropropane	100	80-120	yes
	1,2,4-Trichlorobenzene	97	80-120	yes
	1,2,4-Trimethylbenzene	102	80-120	yes
	1,2-Dibromo-3-chloropropane	101	80-120	yes
	1,2-Dibromoethane	94	80-120	yes
	1,2-Dichlorobenzene	96	80-120	yes
	1,2-Dichloroethane	99	80-120	yes
	1,2-Dichloropropane	102	80-120	yes
	1,3,5-Trimethylbenzene	103	80-120	yes
	1,3-Dichlorobenzene	104	80-120	yes
	1,3-Dichloropropane	93	80-120	yes
	1,4-Dichlorobenzene	96	80-120	yes
	2,2-Dichloropropane	95	80-120	yes
	2-Chlorotoluene	101	80-120	yes
	4-Chlorotoluene	105	80-120	yes
	Benzene	100	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 6 of 7)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Bromobenzene	99	80-120	yes
	Bromochloromethane	90	80-120	yes
	Bromodichloromethane	98	80-120	yes
	Bromoform	93	80-120	yes
	Bromomethane	91	80-120	yes
	Carbon tetrachloride	107	80-120	yes
	Chlorobenzene	99	80-120	yes
	Chloroethane	106	80-120	yes
	Chloroform	100	80-120	yes
	Chloromethane	98	80-120	yes
S091127A	cis-1,2-Dichloroethene	101	80-120	yes
(continued)	cis-1,3-Dichloropropene	93	80-120	yes
	Dibromochloromethane	95	80-120	yes
	Dibromomethane	93	80-120	yes
	Dichlorodifluoromethane	108	80-120	yes
	Ethylbenzene	103	80-120	yes
	Hexachlorobutadiene	95	80-120	yes
	Isopropylbenzene	104	80-120	yes
	Methylene chloride	98	80-120	yes
	n-Butylbenzene	104	80-120	yes
	n-Propylbenzene	104	80-120	yes
	Naphthalene	97	80-120	yes
	p-Isopropyltoluene	99	80-120	yes
	sec-Butylbenzene	106	80-120	yes
	Styrene	101	80-120	yes
	t-Butylbenzene	102	80-120	yes
	Tetrachloroethene	101	80-120	yes
	Toluene	99	80-120	yes
	trans-1,2-Dichloroethene	102	80-120	yes
	trans-1,3-Dichloropropene	95	80-120	yes
	Trichloroethene	99	80-120	yes
	Trichlorofluoromethane	107	80-120	yes
	Vinyl chloride	107	80-120	yes
	Xylenes, total	103	80-120	yes
S091230A	1,1,1,2-Tetrachloroethane	101	80-120	yes
	1,1,1-Trichloroethane	97	80-120	yes
	1,1,2,2-Tetrachloroethane	99	80-120	yes
	1,1,2-Trichloroethane	109	80-120	yes
	1,1-Dichloroethane	100	80-120	yes
	1,1-Dichloroethene	100	80-120	yes
	1,1-Dichloropropene	99	80-120	yes
	1,2,3-Trichlorobenzene	103	80-120	yes
	1,2,3-Trichloropropane	103	80-120	yes
	1,2,4-Trichlorobenzene	101	80-120	yes
	1,2,4-Trimethylbenzene	112	80-120	yes
	1,2-Dibromo-3-chloropropane	103	80-120	yes
	1,2-Dibromoethane	104	80-120	yes
	1,2-Dichlorobenzene	98	80-120	yes
	1,2-Dichloroethane	102	80-120	yes
	1,2-Dichloropropane	102	80-120	yes
	1,3,5-Trimethylbenzene	110	80-120	yes

TABLE 5-2.2

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 7 of 7)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	1,3-Dichlorobenzene	105	80-120	yes
	1,3-Dichloropropane	100	80-120	yes
	1,4-Dichlorobenzene	105	80-120	yes
S091230A	2,2-Dichloropropane	91	80-120	yes
(continued)	2-Chlorotoluene	105	80-120	yes
	4-Chlorotoluene	102	80-120	yes
	Benzene	97	80-120	yes
	Bromobenzene	102	80-120	yes
	Bromochloromethane	94	80-120	yes
	Bromodichloromethane	98	80-120	yes
	Bromoform	115	80-120	yes
	Bromomethane	97	80-120	yes
	Carbon tetrachloride	102	80-120	yes
	Chlorobenzene	103	80-120	yes
	Chloroethane	96	80-120	yes
	Chloroform	99	80-120	yes
	Chloromethane	99	80-120	yes
	cis-1,2-Dichloroethene	97	80-120	yes
	cis-1,3-Dichloropropene	98	80-120	yes
	Dibromochloromethane	102	80-120	yes
	Dibromomethane	108	80-120	yes
	Dichlorodifluoromethane	106	80-120	yes
	Ethylbenzene	106	80-120	yes
	Hexachlorobutadiene	105	80-120	yes
	Isopropylbenzene	108	80-120	yes
	Methylene chloride	85	80-120	yes
	n-Butylbenzene	106	80-120	yes
	n-Propylbenzene	109	80-120	yes
	Naphthalene	108	80-120	yes
	p-Isopropyltoluene	108	80-120	yes
	sec-Butylbenzene	108	80-120	yes
	Styrene	109	80-120	yes
	t-Butylbenzene	110	80-120	yes
	Tetrachloroethene	100	80-120	yes
	Toluene	100	80-120	yes
	trans-1,2-Dichloroethene	103	80-120	yes
	trans-1,3-Dichloropropene	102	80-120	yes
	Trichloroethene	101	80-120	yes
	Trichlorofluoromethane	104	80-120	yes
	Vinyl chloride	100	80-120	yes
	Xylenes, total	107	80-120	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.3

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
H091003A	TPH, gasoline-range	106	67-136	yes
H091026A	TPH, gasoline-range	90	67-136	yes
H091027A	TPH, gasoline-range	98	67-136	yes
H091103A	TPH, gasoline-range	99	67-136	yes
H091103B	TPH, gasoline-range	92	67-136	yes
H091117A	TPH, gasoline-range	95	67-136	yes
H091208A	TPH, gasoline-range	96	67-136	yes
H091211A	TPH, gasoline-range	92	67-136	yes
H091230A	TPH, gasoline-range	102	67-136	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.4

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
A091021A	TPH, diesel-range	92	61-143	yes
A091022B	TPH, diesel-range	94	61-143	yes
A091028A	TPH, diesel-range	74	61-143	yes
A091102A	TPH, diesel-range	94	61-143	yes
A091202B	TPH, diesel-range	88	61-143	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.5

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	USEPA 6010			
P091018A	Antimony	106	80-120	yes
	Arsenic	101	80-120	yes
	Barium	110	80-120	yes
	Beryllium	108	80-120	yes
	Cadmium	113	80-120	yes
	Calcium	107	80-120	yes
	Chromium	114	80-120	yes
	Cobalt	110	80-120	yes
	Copper	105	80-120	yes
	Iron	108	80-120	yes
	Lead	109	80-120	yes
	Magnesium	106	80-120	yes
	Manganese	109	80-120	yes
	Nickel	115	80-120	yes
	Selenium	92	80-120	yes
	Silver	106	80-120	yes
	Sodium	109	80-120	yes
	Vanadium	112	80-120	yes
	Zinc	110	80-120	yes
P091023A	Antimony	96	80-120	yes
	Arsenic	94	80-120	yes
	Barium	106	80-120	yes
	Beryllium	99	80-120	yes
	Cadmium	106	80-120	yes
	Calcium	98	80-120	yes
	Chromium	109	80-120	yes
	Cobalt	104	80-120	yes
	Copper	101	80-120	yes
	Iron	102	80-120	yes
	Lead	103	80-120	yes
	Magnesium	98	80-120	yes
	Manganese	99	80-120	yes
	Nickel	106	80-120	yes
	Selenium	81	80-120	yes
	Silver	95	80-120	yes
	Sodium	98	80-120	yes
	Vanadium	107	80-120	yes
	Zinc	105	80-120	yes
P091026A	Antimony	94	80-120	yes
	Arsenic	99	80-120	yes
	Barium	108	80-120	yes

TABLE 5-2.5

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Beryllium	103	80-120	yes
P091026A	Cadmium	112	80-120	yes
(continued)	Chromium	110	80-120	yes
	Cobalt	108	80-120	yes
	Copper	108	80-120	yes
	Lead	109	80-120	yes
	Manganese	104	80-120	yes
	Nickel	112	80-120	yes
	Selenium	106	80-120	yes
	Silver	93	80-120	yes
	Vanadium	109	80-120	yes
	Zinc	114	80-120	yes
P091029B	Calcium	90	80-120	yes
	Copper	88	80-120	yes
	Iron	93	80-120	yes
	Magnesium	90	80-120	yes
	Manganese	90	80-120	yes
	Sodium	92	80-120	yes
	Zinc	99	80-120	yes
P0910301A	Antimony	93	80-120	yes
	Arsenic	96	80-120	yes
	Barium	95	80-120	yes
	Beryllium	91	80-120	yes
	Cadmium	98	80-120	yes
	Chromium	98	80-120	yes
	Cobalt	96	80-120	yes
	Copper	93	80-120	yes
	Lead	100	80-120	yes
	Manganese	89	80-120	yes
	Nickel	98	80-120	yes
	Selenium	94	80-120	yes
	Silver	92	80-120	yes
	Vanadium	98	80-120	yes
	Zinc	100	80-120	yes
P091103A	Lead	111	80-120	yes
P0912031A	Antimony	102	80-120	yes
	Arsenic	106	80-120	yes
	Barium	111	80-120	yes
	Beryllium	109	80-120	yes
	Cadmium	110	80-120	yes

TABLE 5-2.5

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Chromium	114	80-120	yes
	Cobalt	111	80-120	yes
P0912031A	Copper	117	80-120	yes
(continued)	Lead	111	80-120	yes
	Manganese	109	80-120	yes
	Nickel	112	80-120	yes
	Selenium	100	80-120	yes
	Silver	106	80-120	yes
	Vanadium	112	80-120	yes
	Zinc	115	80-120	yes
	USEPA 6020			
O091018A	Thallium	100	80-120	yes
O091023A	Thallium	101	80-120	yes
O091026A	Thallium	102	80-120	yes
O091030A	Thallium	98	80-120	yes
O091203A	Thallium	90	80-120	yes
	USEPA 7470			
F091017B	Mercury	110	85-115	yes
F091028A	Mercury	95	85-115	yes
F091029A	Mercury	98	85-115	yes
F091205A	Mercury	93	85-115	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-2.6

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	SM 2320			
T091022A	Total Alkalinity	99	80-120	yes
T091027A	Total Alkalinity	98	80-120	yes
T091101A	Total Alkalinity	98	80-120	yes
T091102A	Total Alkalinity	103	80-120	yes
T091103A	Total Alkalinity	102	80-120	yes
T091106A	Total Alkalinity	102	80-120	yes
T091214A	Total Alkalinity	100	80-120	yes
	USEPA 130.2			
B091023A	Hardness as CaCO3	100	80-120	yes
B091030A	Hardness as CaCO3	101	80-120	yes
	USEPA 160.1			
M091021D	Total Filterable Residue	102	80-120	yes
M091021E	Total Filterable Residue	101	80-120	yes
M091021F	Total Filterable Residue	101	80-120	yes
M091026B	Total Filterable Residue	100	80-120	yes
M091027A	Total Filterable Residue	91	80-120	yes
M091027B	Total Filterable Residue	93	80-120	yes
M091102B	Total Filterable Residue	103	80-120	yes
M091207A	Total Filterable Residue	96	80-120	yes
	USEPA 300.0			
D091016A	Chloride	93	85-115	yes
	Nitrate (as N)	95	85-115	yes
	Sulfate	95	85-115	yes
D091020A	Chloride	94	85-115	yes
	Nitrate (as N)	94	85-115	yes

TABLE 5-2.6

LABORATORY CONTROL SAMPLE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 2)

Sample Batch ID	Analyte	LCS Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability
	Sulfate	96	85-115	yes
	USEPA 300.0 (continued)			
D091022A	Chloride	97	85-115	yes
	Nitrate (as N)	96	85-115	yes
	Sulfate	97	85-115	yes
D091026A	Chloride	97	85-115	yes
	Sulfate	97	85-115	yes
D091028A	Chloride	98	85-115	yes
	Sulfate	98	85-115	yes
D091202A	Chloride	95	85-115	yes
	Sulfate	95	85-115	yes
	USEPA 314.0			
D091029A	Perchlorate	101	80-120	yes
	USEPA 340.2			
M091026A	Fluoride	97	86-114	yes
M091109A	Fluoride	102	86-114	yes
M091214A	Fluoride	101	86-114	yes
	USEPA 376.1			
091023A	Sulfide, total	91	80-120	yes
091028A	Sulfide, total	89	80-120	yes
091030A	Sulfide, total	93	80-120	yes
091202A	Sulfide, total	87	80-120	yes
	USEPA 7196			
M091022A	Hexavalent Chromium	100	86-117	yes
M091023A	Hexavalent Chromium	99	86-117	yes

Notes:
ID - Identification
LCS - Laboratory Control Sample

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-10/15/09	1,1,1-Trichloroethane	84	86	67-132	yes	3.0	20	yes
	1,1,2,2-Tetrachloroethane	110	101	63-128	yes	8.5	20	yes
	1,1,2-Trichloroethane	103	103	75-125	yes	0.0	20	yes
	1,1-Dichloroethane	90	89	69-133	yes	1.9	20	yes
	1,1-Dichloroethene	72	69	68-130	yes	4.6	20	yes
	1,2-Dichlorobenzene	95	94	71-122	yes	1.2	20	yes
	1,2-Dichloroethane	94	92	69-132	yes	2.2	20	yes
	1,2-Dichloropropane	94	93	75-125	yes	0.4	20	yes
	1,3-Dichlorobenzene	90	88	75-124	yes	2.7	20	yes
	1,4-Dichlorobenzene	92	87	74-123	yes	5.2	20	yes
	Benzene	79	79	81-122	no	1.0	20	yes
	Bromodichloromethane	100	99	76-121	yes	0.7	20	yes
	Bromoform	85	86	69-128	yes	0.6	20	yes
	Bromomethane	79	80	30-141	yes	0.9	20	yes
	Carbon tetrachloride	91	88	66-138	yes	3.1	20	yes
	Chlorobenzene	86	87	81-122	yes	0.6	20	yes
	Chloroethane	98	95	58-133	yes	3.8	20	yes
	Chloroform	95	92	69-128	yes	3.5	20	yes
	Chloromethane	80	89	56-131	yes	10.3	20	yes
	cis-1,2-Dichloroethene	87	85	72-126	yes	2.9	20	yes
	cis-1,3-Dichloropropene	73	71	69-131	yes	2.2	20	yes
	Dibromochloromethane	96	96	66-133	yes	0.1	20	yes
	Dichlorodifluoromethane	82	80	30-153	yes	3.3	20	yes
	Ethylbenzene	84	84	73-127	yes	1.0	20	yes
	Methylene chloride	58	59	63-137	no	2.1	20	yes
	Tetrachloroethene	70	69	66-128	yes	1.6	20	yes
	Toluene	87	84	77-122	yes	4.1	20	yes
	trans-1,2-Dichloroethene	69	69	63-137	yes	0.3	20	yes
	trans-1,3-Dichloropropene	97	97	59-135	yes	0.8	20	yes
7-PTI-10/15/09	Trichloroethene	61	58	70-127	no	5.0	20	yes
(continued)	Trichlorofluoromethane	96	96	57-129	yes	0.0	20	yes
	Vinyl chloride	106	102	50-134	yes	3.9	20	yes
	Xylenes, total	86	85	76-128	yes	0.5	20	yes
7-PZ-37P	1,1,1-Trichloroethane	98	105	67-132	yes	6.5	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,1,2,2-Tetrachloroethane	79	90	63-128	yes	12.5	20	yes
	1,1,2-Trichloroethane	89	96	75-125	yes	8.0	20	yes
	1,1-Dichloroethane	96	99	69-133	yes	3.3	20	yes
	1,1-Dichloroethene	95	104	68-130	yes	8.9	20	yes
	1,2-Dichlorobenzene	88	95	71-122	yes	8.3	20	yes
	1,2-Dichloroethane	92	98	69-132	yes	6.2	20	yes
	1,2-Dichloropropane	94	99	75-125	yes	4.6	20	yes
	1,3-Dichlorobenzene	89	96	75-124	yes	8.2	20	yes
	1,4-Dichlorobenzene	88	97	74-123	yes	10.4	20	yes
	Benzene	92	97	81-122	yes	5.3	20	yes
	Bromodichloromethane	97	103	76-121	yes	6.3	20	yes
	Bromoform	97	100	69-128	yes	3.6	20	yes
	Bromomethane	88	92	30-141	yes	4.4	20	yes
	Carbon tetrachloride	89	100	66-138	yes	11.0	20	yes
	Chlorobenzene	94	98	81-122	yes	4.2	20	yes
	Chloroethane	95	108	58-133	yes	12.4	20	yes
	Chloroform	97	100	69-128	yes	3.4	20	yes
	Chloromethane	88	99	56-131	yes	11.6	20	yes
	cis-1,2-Dichloroethene	91	97	72-126	yes	7.0	20	yes
	cis-1,3-Dichloropropene	97	103	69-131	yes	5.9	20	yes
	Dibromochloromethane	90	95	66-133	yes	5.0	20	yes
	Dichlorodifluoromethane	89	95	30-153	yes	6.6	20	yes
	Ethylbenzene	96	100	73-127	yes	3.9	20	yes
7-PZ-37P	Methylene chloride	88	97	63-137	yes	10.1	20	yes
(continued)	Tetrachloroethene	85	89	66-128	yes	4.6	20	yes
	Toluene	96	102	77-122	yes	5.8	20	yes
	trans-1,2-Dichloroethene	95	100	63-137	yes	4.3	20	yes
	trans-1,3-Dichloropropene	96	105	59-135	yes	8.5	20	yes
	Trichloroethene	88	93	70-127	yes	5.5	20	yes
	Trichlorofluoromethane	101	111	57-129	yes	9.4	20	yes
	Vinyl chloride	102	107	50-134	yes	4.8	20	yes
	Xylenes, total	97	99	76-128	yes	2.4	20	yes
ACW PTI-10/15/09	1,1,1-Trichloroethane	86	86	67-132	yes	0.5	20	yes
	1,1,2,2-Tetrachloroethane	101	104	63-128	yes	2.9	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,1,2-Trichloroethane	98	101	75-125	yes	2.8	20	yes
	1,1-Dichloroethane	86	85	69-133	yes	0.7	20	yes
	1,1-Dichloroethene	63	67	68-130	no	6.8	20	yes
	1,2-Dichlorobenzene	92	91	71-122	yes	1.3	20	yes
	1,2-Dichloroethane	89	92	69-132	yes	3.2	20	yes
	1,2-Dichloropropane	91	94	75-125	yes	2.9	20	yes
	1,3-Dichlorobenzene	88	85	75-124	yes	3.7	20	yes
	1,4-Dichlorobenzene	91	87	74-123	yes	3.7	20	yes
	Benzene	76	78	81-122	no	2.7	20	yes
	Bromodichloromethane	97	97	76-121	yes	0.4	20	yes
	Bromoform	87	87	69-128	yes	0.4	20	yes
	Bromomethane	74	80	30-141	yes	7.4	20	yes
	Carbon tetrachloride	88	87	66-138	yes	0.6	20	yes
	Chlorobenzene	88	85	81-122	yes	3.2	20	yes
	Chloroethane	94	95	58-133	yes	0.9	20	yes
	Chloroform	90	90	69-128	yes	0.2	20	yes
	Chloromethane	86	82	56-131	yes	4.4	20	yes
ACW PTI-10/15/09	cis-1,2-Dichloroethene	82	84	72-126	yes	1.7	20	yes
(continued)	cis-1,3-Dichloropropene	70	71	69-131	yes	1.3	20	yes
	Dibromochloromethane	99	98	66-133	yes	0.8	20	yes
	Dichlorodifluoromethane	83	84	30-153	yes	1.1	20	yes
	Ethylbenzene	85	83	73-127	yes	3.1	20	yes
	Methylene chloride	53	56	63-137	no	6.6	20	yes
	Tetrachloroethene	74	73	66-128	yes	1.8	20	yes
	Toluene	83	84	77-122	yes	1.8	20	yes
	trans-1,2-Dichloroethene	66	65	63-137	yes	1.8	20	yes
	trans-1,3-Dichloropropene	95	95	59-135	yes	0.1	20	yes
	Trichloroethene	70	70	70-127	yes	0.0	20	yes
	Trichlorofluoromethane	94	97	57-129	yes	2.6	20	yes
	Vinyl chloride	105	104	50-134	yes	1.0	20	yes
	Xylenes, total	86	85	76-128	yes	0.8	20	yes
MAFB-133	1,1-Dichloroethene	98	98	68-130	yes	0.0	20	yes
	1,2-Dichloroethane	94	95	69-132	yes	0.6	20	yes
	1,2-Dichloropropane	97	94	75-125	yes	2.5	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,4-Dichlorobenzene	85	83	74-123	yes	2.2	20	yes
	Carbon tetrachloride	104	103	66-138	yes	1.0	20	yes
	Chloroform	99	98	69-128	yes	0.9	20	yes
	Chloromethane	98	99	56-131	yes	1.2	20	yes
	cis-1,2-Dichloroethene	94	93	72-126	yes	1.1	20	yes
	Tetrachloroethene	81	79	66-128	yes	2.5	20	yes
	Trichloroethene	96	95	70-127	yes	1.1	20	yes
	Vinyl chloride	115	107	50-134	yes	7.2	20	yes
MAFB-378D	1,1-Dichloroethene	109	106	68-130	yes	2.8	20	yes
	1,2-Dichloroethane	108	105	69-132	yes	2.8	20	yes
MAFB-378D	1,2-Dichloropropane	102	101	75-125	yes	1.0	20	yes
(continued)	1,4-Dichlorobenzene	95	92	74-123	yes	3.9	20	yes
	Carbon tetrachloride	114	110	66-138	yes	3.6	20	yes
	Chloroform	105	103	69-128	yes	1.9	20	yes
	Chloromethane	97	96	56-131	yes	0.3	20	yes
	cis-1,2-Dichloroethene	102	99	72-126	yes	2.6	20	yes
	Tetrachloroethene	92	97	66-128	yes	4.3	20	yes
	Trichloroethene	104	102	70-127	yes	1.9	20	yes
	Vinyl chloride	115	109	50-134	yes	5.4	20	yes
MAFB-439	1,1,1-Trichloroethane	100	96	67-132	yes	4.1	20	yes
	1,1,2,2-Tetrachloroethane	79	87	63-128	yes	9.9	20	yes
	1,1,2-Trichloroethane	90	87	75-125	yes	2.9	20	yes
	1,1-Dichloroethane	88	95	69-133	yes	7.9	20	yes
	1,1-Dichloroethene	88	91	68-130	yes	3.5	20	yes
	1,2-Dichlorobenzene	82	87	71-122	yes	5.7	20	yes
	1,2-Dichloroethane	88	93	69-132	yes	5.7	20	yes
	1,2-Dichloropropane	93	94	75-125	yes	0.4	20	yes
	1,3-Dichlorobenzene	76	85	75-124	yes	11.5	20	yes
	1,4-Dichlorobenzene	82	85	74-123	yes	3.2	20	yes
	Benzene	92	92	81-122	yes	0.7	20	yes
	Bromodichloromethane	96	97	76-121	yes	0.9	20	yes
	Bromoform	83	89	69-128	yes	6.9	20	yes
	Bromomethane	84	88	30-141	yes	4.6	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Carbon tetrachloride	100	86	66-138	yes	15.1	20	yes
	Chlorobenzene	86	91	81-122	yes	6.6	20	yes
	Chloroethane	91	89	58-133	yes	2.2	20	yes
	Chloroform	91	89	69-128	yes	2.3	20	yes
	Chloromethane	83	81	56-131	yes	2.6	20	yes
MAFB-439	cis-1,2-Dichloroethene	89	85	72-126	yes	5.6	20	yes
(continued)	cis-1,3-Dichloropropene	93	91	69-131	yes	2.2	20	yes
	Dibromochloromethane	79	92	66-133	yes	15.3	20	yes
	Dichlorodifluoromethane	88	94	30-153	yes	5.8	20	yes
	Ethylbenzene	86	91	73-127	yes	5.6	20	yes
	Methylene chloride	94	97	63-137	yes	2.7	20	yes
	Tetrachloroethene	-1	69	66-128	no	205.9*	20	no
	Toluene	99	97	77-122	yes	1.7	20	yes
	trans-1,2-Dichloroethene	89	92	63-137	yes	3.4	20	yes
	trans-1,3-Dichloropropene	90	91	59-135	yes	0.3	20	yes
	Trichloroethene	100	93	70-127	yes	6.8	20	yes
	Trichlorofluoromethane	90	93	57-129	yes	2.5	20	yes
	Vinyl chloride	95	91	50-134	yes	4.6	20	yes
	Xylenes, total	86	89	76-128	yes	3.4	20	yes
MBS PTI-10/15/09	1,1,1-Trichloroethane	103	100	67-132	yes	3.3	20	yes
	1,1,2,2-Tetrachloroethane	114	115	63-128	yes	0.9	20	yes
	1,1,2-Trichloroethane	115	112	75-125	yes	2.6	20	yes
	1,1-Dichloroethane	111	103	69-133	yes	7.5	20	yes
	1,1-Dichloroethene	97	96	68-130	yes	1.7	20	yes
	1,2-Dichlorobenzene	107	105	71-122	yes	1.9	20	yes
	1,2-Dichloroethane	113	108	69-132	yes	4.5	20	yes
	1,2-Dichloropropane	110	106	75-125	yes	3.7	20	yes
	1,3-Dichlorobenzene	100	98	75-124	yes	2.0	20	yes
	1,4-Dichlorobenzene	101	100	74-123	yes	1.0	20	yes
	Benzene	103	98	81-122	yes	5.2	20	yes
	Bromodichloromethane	116	112	76-121	yes	3.5	20	yes
	Bromoform	97	89	69-128	yes	8.7	20	yes
	Bromomethane	88	82	30-141	yes	6.8	20	yes
MBS PTI-10/15/09	Carbon tetrachloride	110	100	66-138	yes	9.5	20	yes

TABLE 5-3.1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8260 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
(continued)	Chlorobenzene	100	97	81-122	yes	3.5	20	yes
	Chloroethane	109	102	58-133	yes	6.6	20	yes
	Chloroform	111	105	69-128	yes	5.6	20	yes
	Chloromethane	93	92	56-131	yes	1.4	20	yes
	cis-1,2-Dichloroethene	108	101	72-126	yes	6.7	20	yes
	cis-1,3-Dichloropropene	93	85	69-131	yes	8.3	20	yes
	Dibromochloromethane	111	108	66-133	yes	2.7	20	yes
	Dichlorodifluoromethane	95	89	30-153	yes	6.8	20	yes
	Ethylbenzene	100	96	73-127	yes	4.4	20	yes
	Methylene chloride	87	85	63-137	yes	1.9	20	yes
	Tetrachloroethene	80	78	66-128	yes	2.5	20	yes
	Toluene	105	99	77-122	yes	5.6	20	yes
	trans-1,2-Dichloroethene	100	96	63-137	yes	4.6	20	yes
	trans-1,3-Dichloropropene	114	105	59-135	yes	8.2	20	yes
	Trichloroethene	97	90	70-127	yes	7.5	20	yes
	Trichlorofluoromethane	106	101	57-129	yes	4.8	20	yes
	Vinyl chloride	120	111	50-134	yes	7.8	20	yes
	Xylenes, total	100	98	76-128	yes	2.3	20	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Due to limitations with the current Electronic Data Deliverable (EDD) format, RPDs in this table are calculated using MS/MSD percent recoveries, rather than actual observed values. RPDs marked with an "*" differ from the actual observed RPD and should not be used for validation purposes.

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
MAFB-324	1,1,1,2-Tetrachloroethane	92	109	80-120	yes	16.7	20	yes
	1,1,1-Trichloroethane	100	103	80-120	yes	3.0	20	yes
	1,1,2,2-Tetrachloroethane	77	101	80-120	no	27.2	20	no
	1,1,2-Trichloroethane	83	100	80-120	yes	18.0	20	yes
	1,1-Dichloroethane	98	104	80-120	yes	6.4	20	yes
	1,1-Dichloroethene	95	104	80-120	yes	9.3	20	yes
	1,1-Dichloropropene	99	102	80-120	yes	2.7	20	yes
	1,2,3-Trichlorobenzene	73	87	80-120	no	17.6	20	yes
	1,2,3-Trichloropropane	72	95	80-120	no	27.7	20	no
	1,2,4-Trichlorobenzene	67	85	80-120	no	24.1	20	no
	1,2,4-Trimethylbenzene	89	106	80-120	yes	17.3	20	yes
	1,2-Dibromo-3-chloropropane	69	83	80-120	no	18.3	20	yes
	1,2-Dibromoethane	83	96	80-120	yes	13.7	20	yes
	1,2-Dichlorobenzene	83	101	80-120	yes	19.2	20	yes
	1,2-Dichloroethane	93	101	80-120	yes	8.0	20	yes
	1,2-Dichloropropane	87	103	80-120	yes	16.8	20	yes
	1,3,5-Trimethylbenzene	88	102	80-120	yes	15.0	20	yes
	1,3-Dichlorobenzene	88	102	80-120	yes	14.9	20	yes
	1,3-Dichloropropane	87	100	80-120	yes	13.8	20	yes
	1,4-Dichlorobenzene	85	100	80-120	yes	15.8	20	yes
	2,2-Dichloropropane	87	89	80-120	yes	1.5	20	yes
	2-Chlorotoluene	90	104	80-120	yes	14.9	20	yes
	4-Chlorotoluene	88	103	80-120	yes	15.5	20	yes
	Benzene	96	101	80-120	yes	5.5	20	yes
	Bromobenzene	87	101	80-120	yes	14.9	20	yes
	Bromochloromethane	88	91	80-120	yes	4.0	20	yes
	Bromodichloromethane	94	100	80-120	yes	6.5	20	yes
	Bromoform	83	98	80-120	yes	16.1	20	yes
	Bromomethane	100	106	80-120	yes	5.8	20	yes
MAFB-324 (continued)	Carbon tetrachloride	99	103	80-120	yes	3.7	20	yes
	Chlorobenzene	94	106	80-120	yes	12.5	20	yes
	Chloroethane	88	92	80-120	yes	4.1	20	yes
	Chloroform	99	105	80-120	yes	6.0	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Chloromethane	86	87	80-120	yes	1.4	20	yes
	cis-1,2-Dichloroethene	91	99	80-120	yes	7.7	20	yes
	cis-1,3-Dichloropropene	88	101	80-120	yes	13.5	20	yes
	Dibromochloromethane	82	98	80-120	yes	18.1	20	yes
	Dibromomethane	92	96	80-120	yes	4.9	20	yes
	Dichlorodifluoromethane	102	112	80-120	yes	9.4	20	yes
	Ethylbenzene	98	111	80-120	yes	12.6	20	yes
	Hexachlorobutadiene	87	103	80-120	yes	16.7	20	yes
	Isopropylbenzene	89	106	80-120	yes	17.3	20	yes
	Methylene chloride	82	95	80-120	yes	14.8	20	yes
	n-Butylbenzene	81	97	80-120	yes	17.2	20	yes
	n-Propylbenzene	96	109	80-120	yes	12.9	20	yes
	Naphthalene	65	92	80-120	no	35.1	20	no
	p-Isopropyltoluene	91	102	80-120	yes	11.2	20	yes
	sec-Butylbenzene	91	108	80-120	yes	17.1	20	yes
	Styrene	90	107	80-120	yes	17.2	20	yes
	t-Butylbenzene	88	102	80-120	yes	14.6	20	yes
	Tetrachloroethene	97	109	80-120	yes	11.3	20	yes
	Toluene	98	106	80-120	yes	8.0	20	yes
	trans-1,2-Dichloroethene	90	104	80-120	yes	14.4	20	yes
	trans-1,3-Dichloropropene	87	101	80-120	yes	14.6	20	yes
	Trichloroethene	97	101	80-120	yes	4.3	20	yes
	Trichlorofluoromethane	100	107	80-120	yes	6.8	20	yes
	Vinyl chloride	95	95	80-120	yes	0.6	20	yes
	Xylenes, total	93	107	80-120	yes	14.0	20	yes
OFB-27	1,1,1,2-Tetrachloroethane	99	96	80-120	yes	3.3	20	yes
	1,1,1-Trichloroethane	101	97	80-120	yes	4.3	20	yes
	1,1,2,2-Tetrachloroethane	82	83	80-120	yes	0.9	20	yes
	1,1,2-Trichloroethane	89	95	80-120	yes	6.2	20	yes
	1,1-Dichloroethane	96	96	80-120	yes	0.3	20	yes
	1,1-Dichloroethene	103	104	80-120	yes	1.0	20	yes
	1,1-Dichloropropene	103	101	80-120	yes	2.0	20	yes
	1,2,3-Trichlorobenzene	90	93	80-120	yes	3.8	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	1,2,3-Trichloropropane	87	92	80-120	yes	5.3	20	yes
	1,2,4-Trichlorobenzene	94	94	80-120	yes	0.3	20	yes
	1,2,4-Trimethylbenzene	99	100	80-120	yes	1.5	20	yes
	1,2-Dibromo-3-chloropropane	81	76	80-120	no	6.1	20	yes
	1,2-Dibromoethane	90	91	80-120	yes	0.6	20	yes
	1,2-Dichlorobenzene	95	97	80-120	yes	1.6	20	yes
	1,2-Dichloroethane	98	95	80-120	yes	3.2	20	yes
	1,2-Dichloropropane	95	94	80-120	yes	1.5	20	yes
	1,3,5-Trimethylbenzene	102	101	80-120	yes	1.0	20	yes
	1,3-Dichlorobenzene	99	99	80-120	yes	0.8	20	yes
	1,3-Dichloropropane	93	94	80-120	yes	0.9	20	yes
	1,4-Dichlorobenzene	97	99	80-120	yes	2.0	20	yes
	2,2-Dichloropropane	100	103	80-120	yes	3.5	20	yes
	2-Chlorotoluene	97	99	80-120	yes	1.2	20	yes
	4-Chlorotoluene	95	97	80-120	yes	1.8	20	yes
	Benzene	97	96	80-120	yes	1.1	20	yes
	Bromobenzene	96	95	80-120	yes	0.9	20	yes
	Bromochloromethane	95	94	80-120	yes	0.4	20	yes
	Bromodichloromethane	96	97	80-120	yes	0.6	20	yes
	Bromoform	91	87	80-120	yes	4.3	20	yes
	Bromomethane	83	88	80-120	yes	5.4	20	yes
OFB-27	Carbon tetrachloride	104	102	80-120	yes	1.9	20	yes
(continued)	Chlorobenzene	96	98	80-120	yes	2.8	20	yes
	Chloroethane	100	103	80-120	yes	3.0	20	yes
	Chloroform	96	95	80-120	yes	0.8	20	yes
	Chloromethane	93	90	80-120	yes	2.7	20	yes
	cis-1,2-Dichloroethene	97	96	80-120	yes	0.4	20	yes
	cis-1,3-Dichloropropene	88	87	80-120	yes	0.8	20	yes
	Dibromochloromethane	91	91	80-120	yes	0.4	20	yes
	Dibromomethane	89	93	80-120	yes	4.4	20	yes
	Dichlorodifluoromethane	100	99	80-120	yes	1.5	20	yes
	Ethylbenzene	96	98	80-120	yes	1.1	20	yes
	Hexachlorobutadiene	93	103	80-120	yes	10.4	20	yes

TABLE 5-3.2

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 524.2 - VOLATILE ORGANIC COMPOUNDS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Isopropylbenzene	102	101	80-120	yes	1.0	20	yes
	Methylene chloride	94	102	80-120	yes	8.4	20	yes
	n-Butylbenzene	99	99	80-120	yes	0.2	20	yes
	n-Propylbenzene	98	99	80-120	yes	0.7	20	yes
	Naphthalene	89	91	80-120	yes	2.9	20	yes
	p-Isopropyltoluene	99	98	80-120	yes	0.6	20	yes
	sec-Butylbenzene	102	102	80-120	yes	0.0	20	yes
	Styrene	99	101	80-120	yes	2.2	20	yes
	t-Butylbenzene	98	95	80-120	yes	3.0	20	yes
	Tetrachloroethene	94	94	80-120	yes	0.3	20	yes
	Toluene	95	96	80-120	yes	0.5	20	yes
	trans-1,2-Dichloroethene	101	98	80-120	yes	2.9	20	yes
	trans-1,3-Dichloropropene	90	88	80-120	yes	2.4	20	yes
	Trichloroethene	96	97	80-120	yes	1.0	20	yes
	Trichlorofluoromethane	103	105	80-120	yes	1.9	20	yes
	Vinyl chloride	100	97	80-120	yes	2.4	20	yes
	Xylenes, total	100	102	80-120	yes	2.0	20	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

TABLE 5-3.3

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-10/15/09	TPH, gasoline-range	101	102	67-136	yes	1.0	30	yes
7-PZ-37P	TPH, gasoline-range	105	98	67-136	yes	7.2	30	yes
MBS PTI-10/15/09	TPH, gasoline-range	98	94	67-136	yes	4.5	30	yes

Notes:
RPD - Relative Percent Difference

TABLE 5-3.4

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
USEPA METHOD 8015 MODIFIED - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
7-PTI-10/15/09	TPH, diesel-range	93	85	61-143	yes	9.6	30	yes
7-PZ-37P	TPH, diesel-range	104	83	61-143	yes	22.0	30	yes
ACW PTE-10/15/09	TPH, diesel-range	80	84	61-143	yes	5.5	30	yes
MBS PTI-10/15/09	TPH, diesel-range	99	101	61-143	yes	2.5	30	yes

Notes:
RPD - Relative Percent Difference

TABLE 5-3.5

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	USEPA 6010							
7-BV-02	Calcium	72	12	80-120	no	142.9*	20	no
	Copper	95	93	80-120	yes	2.6	20	yes
	Iron	98	101	80-120	yes	3.5	20	yes
	Magnesium	82	47	80-120	no	54.7*	20	no
	Manganese	97	93	80-120	yes	4.6	20	yes
	Sodium	97	72	80-120	no	29.9*	20	no
	Zinc	96	94	80-120	yes	1.9	20	yes
7-PTI-10/15/09	Calcium	112	116	80-120	yes	3.5	20	yes
	Copper	110	112	80-120	yes	1.8	20	yes
	Iron	110	113	80-120	yes	2.7	20	yes
	Magnesium	108	111	80-120	yes	2.7	20	yes
	Manganese	109	112	80-120	yes	2.7	20	yes
	Sodium	110	112	80-120	yes	1.8	20	yes
	Zinc	106	108	80-120	yes	1.9	20	yes
7-PZ-37P	Antimony	97	94	80-120	yes	3.4	20	yes
	Arsenic	96	95	80-120	yes	1.3	20	yes
	Barium	104	103	80-120	yes	1.0	20	yes
	Beryllium	100	97	80-120	yes	2.4	20	yes
	Cadmium	102	101	80-120	yes	1.0	20	yes
	Chromium	105	104	80-120	yes	1.0	20	yes
	Cobalt	100	104	80-120	yes	4.3	20	yes
	Copper	101	101	80-120	yes	0.0	20	yes
	Lead	101	100	80-120	yes	1.4	20	yes
	Manganese	120	92	80-120	yes	26.4*	20	no
	Nickel	100	99	80-120	yes	0.4	20	yes
	Selenium	82	81	80-120	yes	1.5	20	yes
7-PZ-37P	Silver	93	92	80-120	yes	1.1	20	yes
(continued)	Vanadium	105	104	80-120	yes	1.0	20	yes
	Zinc	100	100	80-120	yes	0.5	20	yes

Mather AR # 2970.1 Page 880 of 1088

TABLE 5-3.5

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
ACW PTI-10/15/09	Calcium	100	102	80-120	yes	2.0	20	yes
	Copper	112	106	80-120	yes	5.5	20	yes
	Iron	107	108	80-120	yes	0.9	20	yes
	Magnesium	104	105	80-120	yes	1.0	20	yes
	Manganese	106	106	80-120	yes	0.0	20	yes
	Sodium	104	104	80-120	yes	0.0	20	yes
	Zinc	109	111	80-120	yes	1.8	20	yes
MAFB-133	Antimony	94	90	80-120	yes	4.8	20	yes
	Arsenic	99	97	80-120	yes	2.5	20	yes
	Barium	101	96	80-120	yes	5.3	20	yes
	Beryllium	87	83	80-120	yes	4.5	20	yes
	Cadmium	102	99	80-120	yes	2.8	20	yes
	Chromium	103	97	80-120	yes	5.9	20	yes
	Cobalt	99	96	80-120	yes	2.9	20	yes
	Copper	95	90	80-120	yes	4.8	20	yes
	Lead	102	100	80-120	yes	2.0	20	yes
	Manganese	88	83	80-120	yes	5.6	20	yes
	Nickel	98	95	80-120	yes	2.5	20	yes
	Selenium	93	92	80-120	yes	0.9	20	yes
	Silver	94	91	80-120	yes	3.9	20	yes
	Vanadium	100	96	80-120	yes	4.4	20	yes
	Zinc	103	98	80-120	yes	5.0	20	yes
MBS PTI-10/15/09	Antimony	108	110	80-120	yes	1.8	20	yes
	Arsenic	100	102	80-120	yes	2.0	20	yes
	Barium	106	113	80-120	yes	6.4	20	yes
	Beryllium	107	110	80-120	yes	2.8	20	yes
	Cadmium	108	112	80-120	yes	3.6	20	yes
	Chromium	110	116	80-120	yes	5.3	20	yes
	Cobalt	105	111	80-120	yes	5.6	20	yes
	Copper	104	110	80-120	yes	5.6	20	yes

TABLE 5-3.5

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
METALS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Lead	106	110	80-120	yes	3.7	20	yes
	Manganese	107	106	80-120	yes	0.9	20	yes
	Nickel	109	113	80-120	yes	3.6	20	yes
	Selenium	91	93	80-120	yes	2.2	20	yes
	Silver	106	110	80-120	yes	3.7	20	yes
	Vanadium	109	115	80-120	yes	5.4	20	yes
	Zinc	108	113	80-120	yes	4.5	20	yes
	USEPA 6020							
7-PZ-37P	Thallium	101	99	80-120	yes	2.5	25	yes
MAFB-133	Thallium	99	97	80-120	yes	2.5	25	yes
MBS PTI-10/15/09	Thallium	102	104	80-120	yes	1.9	25	yes
	USEPA 7470							
7-PZ-37P	Mercury	113	108	85-115	yes	4.5	15	yes
MAFB-133	Mercury	100	100	85-115	yes	0.0	15	yes
MBS PTI-10/15/09	Mercury	108	110	85-115	yes	1.8	15	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Due to limitations with the current Electronic Data Deliverable (EDD) format, RPDs in this table are calculated using MS/MSD percent recoveries, rather than actual observed values. RPDs marked with an "*" differ from the actual observed RPD and should not be used for validation purposes.

Mather AR # 2970.1 Page 882 of 1088

TABLE 5-3.6

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	SM 2320							
7-BV-02	Total Alkalinity	102	102	80-120	yes	0.0	20	yes
7-PTI-10/15/09	Total Alkalinity	99	100	80-120	yes	0.8	20	yes
ACW PTI-10/15/09	Total Alkalinity	97	97	80-120	yes	0.4	20	yes
MAFB-133	Total Alkalinity	101	101	80-120	yes	0.0	20	yes
MBS PTI-10/15/09	Total Alkalinity	96	97	80-120	yes	0.8	20	yes
	USEPA 130.2							
7-BV-02	Hardness as CaCO3	113	103	80-120	yes	9.3	20	yes
7-PTI-10/15/09	Hardness as CaCO3	110	100	80-120	yes	9.5	20	yes
ACW PTI-10/15/09	Hardness as CaCO3	100	110	80-120	yes	9.5	20	yes
MBS PTI-10/15/09	Hardness as CaCO3	88	98	80-120	yes	10.8	20	yes
	USEPA 160.1							
7-BV-01	Total Filterable Residue	94	86	80-120	yes	9.0	20	yes
7-BV-02	Total Filterable Residue	87	80	80-120	yes	8.1	20	yes
7-PTI-10/15/09	Total Filterable Residue	99	95	80-120	yes	4.1	20	yes
ACW PTI-10/15/09	Total Filterable Residue	101	104	80-120	yes	2.9	20	yes
	USEPA 160.1 (continued)							
MAFB-133	Total Filterable Residue	101	101	80-120	yes	0.0	20	yes
MBS PTI-10/15/09	Total Filterable Residue	105	103	80-120	yes	1.9	20	yes
	USEPA 300.0							
7-BV-02	Chloride	101	102	85-115	yes	1.0	20	yes
	Nitrate (as N)	100	101	85-115	yes	1.0	20	yes

Mather AR # 2970.1 Page 883 of 1088

TABLE 5-3.6

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERY SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Matrix Spike Recovery (%)	Matrix Spike Duplicate Recovery (%)	Control Limits Recovery (%)	Accuracy Acceptability	Actual RPD (%)	Control Limits (%)	Precision Acceptability
	Sulfate	115	116	85-115	no	1.1	20	yes
7-PTI-10/15/09	Chloride	100	100	85-115	yes	0.0	20	yes
	Nitrate (as N)	102	104	85-115	yes	1.9	20	yes
	Sulfate	104	105	85-115	yes	1.0	20	yes
ACW PTI-10/15/09	Chloride	95	95	85-115	yes	0.0	20	yes
	Nitrate (as N)	103	102	85-115	yes	1.0	20	yes
	Sulfate	94	94	85-115	yes	0.0	20	yes
MAFB-133	Chloride	98	98	85-115	yes	0.8	20	yes
	Sulfate	100	100	85-115	yes	0.4	20	yes
MBS PTI-10/15/09	Chloride	99	98	85-115	yes	0.8	20	yes
	Nitrate (as N)	105	104	85-115	yes	1.0	20	yes
	Sulfate	100	99	85-115	yes	0.8	20	yes
	USEPA 314.0							
ACW PTE-10/15/09	Perchlorate	102	101	80-120	yes	1.0	15	yes
MBS PTE AF-10/15/09	Perchlorate	108	107	80-120	yes	0.9	15	yes
	USEPA 340.2							
MAFB-133	Fluoride	104	102	86-114	yes	1.9	20	yes
	USEPA 376.1							
MAFB-133	Sulfide, total	88	87	80-120	yes	0.8	20	yes
	USEPA 7196							
7-PZ-37P	Hexavalent Chromium	101	101	86-117	yes	0.0	15	yes

Notes:
RPD - Relative Percent Difference

Shaded data indicate nonconformances with project control limits.

Mather AR # 2970.1 Page 884 of 1088

TABLE 5-4

LABORATORY DUPLICATE SUMMARY
GENERAL CHEMISTRY
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Sample Identification	Analyte	Units	Sample Concentration	Laboratory Duplicate	Actual RPD (%)	Control Limits RPD (%)	Precision Acceptability
	USEPA 160.1						
MBS PTI-10/15/09	Total Filterable Residue	mg/L	163	174	6.5	20	yes
	USEPA 160.2						
MBS PTE AF-10/15/09	Total Suspended Solids	mg/L	< 10	< 10	0.0	20	yes
MBS PTI-10/15/09	Total Suspended Solids	mg/L	< 10	< 10	0.0	20	yes

Notes:
mg/L - Milligrams per liter
RPD - Relative Percent Difference

Mather AR # 2970.1 Page 885 of 1088

6.0 CHAIN-OF-CUSTODY FORMS

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	10/1/2009	0933	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	10/1/2009	1119
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl. Inc	10-2-09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	10/1/2009	0845	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	10/1/2009	1119
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	10/2/09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A' LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	10/1/2009	1013	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	10/1/2009	1013	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	10/1/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	10/1/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-totul, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	10/1/2009	1127
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc.	10-2-09	1030

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
MAFB-444DF	MAFB-444	0	0	10/12/2009	937	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-445DF	MAFB-445	0	0	10/12/2009	901	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-446DF	MAFB-446	0	0	10/12/2009	921	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-447DF	MAFB-447	0	0	10/12/2009	954	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-448DF	MAFB-448	0	0	10/12/2009	846	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-908	MAFB-908	0	0	10/12/2009	911	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/12/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-OFB-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-330DF	MAFB-330	0	0	10/12/2009	1207	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-336DF	MAFB-336	0	0	10/12/2009	1223	N	1	DF	WG	0	0	1	A	3	G	C				X								
OFB-MW-2	OFB-MW-2	0	0	10/12/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	10/12/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-388(Ds)DF	MAFB-388Ds	0	0	10/12/2009	1301	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-426DF	MAFB-426	0	0	10/12/2009	1310	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-443DF	MAFB-443	0	0	10/12/2009	1242	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-449(Bd)DF	MAFB-449Bd	0	0	10/12/2009	1020	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-457(Bs)DF	MAFB-457Bs	0	0	10/12/2009	1051	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-458(Bd)DF	MAFB-458Bd	0	0	10/12/2009	1114	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-900	MAFB-900	0	0	10/12/2009	1036	N	1	BP	WG	0	0	1	A	12	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/12/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS-MW-13	MBS-MW-13	0	0	10/12/2009	1430	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	10/12/2009	1445
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-449(Bs)DF	MAFB-449Bs	0	0	10/13/2009	8:19	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Shawn Bragdon	MWH	10/13/2009	1700
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-OFB-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-271	MAFB-271	0	0	10/14/2009	850	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-319DF	MAFB-319	0	0	10/14/2009	916	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-321DF	MAFB-321	0	0	10/14/2009	901	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-322	MAFB-322	0	0	10/14/2009	1208	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-324	MAFB-324	0	0	10/14/2009	953	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-324-MS/MSD	MAFB-324	0	0	10/14/2009	953	MS	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-326	MAFB-326	0	0	10/14/2009	1129	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/14/2009	1420
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3. etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-OFB-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
MAFB-328DF	MAFB-328	0	0	10/14/2009	1021	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-337	MAFB-337	0	0	10/14/2009	1233	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-338DF	MAFB-338	0	0	10/14/2009	1029	N	1	DF	WG	0	0	1	A	3	G	C				X								
MAFB-911	MAFB-911	0	0	10/14/2009	831	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-918	MAFB-918	0	0	10/14/2009	822	N	1	BP	WG	0	0	1	A	3	G	C				X								
OFB-MW-1	OFB-MW-1	0	0	10/14/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/14/2009	1428
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B|C|D|E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-AS	7-AS	0	0	10/15/2009	1140	N	1	WF	WG	0	0	1	A	1	P	NA							X							
7-AS	7-AS	0	0	10/15/2009	1140	N	1	WF	WG	0	0	1	A	1	P	A								X						
7-AS	7-AS	0	0	10/15/2009	1140	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-AS	7-AS	0	0	10/15/2009	1140	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-AS	7-AS	0	0	10/15/2009	1140	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	10/15/2009	1005	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-PTE	7-PTE	0	0	10/15/2009	1005	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B|C|D|E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST											
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTE	7-PTE	0	0	10/15/2009	1005	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-PTE	7-PTE	0	0	10/15/2009	1005	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTE	7-PTE	0	0	10/15/2009	1005	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-PTI	7-PTI	0	0	10/15/2009	1041	N	1	WF	WG	0	0	1	A	1	P	A								X					
7-PTI	7-PTI	0	0	10/15/2009	1041	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTI	7-PTI	0	0	10/15/2009	1041	N	1	WF	WG	0	0	1	A	2	A	NA					X								
7-PTI	7-PTI	0	0	10/15/2009	1041	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/15/2009	1450
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~WH~~ **COOLER#:** A B C D E **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Rob FOSTER

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	1,4-Dioxane	PAHs	PCBs	VOCs 524.2	Hex Chrome
7-PTI	7-PTI	0	0	10/15/2009	1041	N	1	WF	WG	0	0	1	A	1	P	NA							X						
7-PTI-MS/MSD	7-PTI	0	0	10/15/2009	1041	MS	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTI-MS/MSD	7-PTI	0	0	10/15/2009	1041	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
7-PTI-MS/MSD	7-PTI	0	0	10/15/2009	1041	MS	1	WF	WG	0	0	1	A	2	P	A								X					
7-PTI-MS/MSD	7-PTI	0	0	10/15/2009	1041	MS	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTI-MS/MSD	7-PTI	0	0	10/15/2009	1041	MS	1	WF	WG	0	0	1	A	4	A	NA					X								

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob FOSTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~NA~~ COOLER#: A/B/C/D/E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW AS	ACW AS	0	0	10/15/2009	854	N	1	WF	WG	0	0	1	A	1	P	NA							X						
ACW AS	ACW AS	0	0	10/15/2009	854	N	1	WF	WG	0	0	1	A	1	P	A								X					
ACW AS	ACW AS	0	0	10/15/2009	854	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTD	ACW PTD	0	0	10/15/2009	821	N	1	WF	WG	0	0	1	A	1	P	NA													X
ACW PTD	ACW PTD	0	0	10/15/2009	821	N	1	WF	WG	0	0	1	A	2	A	NA					X								
ACW PTE	ACW PTE	0	0	10/15/2009	840	N	1	WF	WG	0	0	1	A	2	A	NA					X								
ACW PTE	ACW PTE	0	0	10/15/2009	840	N	1	WF	WG	0	0	1	A	1	P	NA							X						

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 12A COOLER#: A|B|C|D|E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	10/15/2009	840	N	1	WF	WG	0	0	1	A	1	P	A								X					
ACW PTE	ACW PTE	0	0	10/15/2009	840	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTE	ACW PTE	0	0	10/15/2009	840	N	1	WF	WG	0	0	1	A	1	P	NA													X
ACW PTE-MS/MSD	ACW PTE	0	0	10/15/2009	840	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
ACW PTE-MS/MSD	ACW PTE	0	0	10/15/2009	840	MS	1	WF	WG	0	0	1	A	2	P	NA													X
ACW PTI	ACW PTI	0	0	10/15/2009	918	N	1	WF	WG	0	0	1	A	1	P	NA							X						
ACW PTI	ACW PTI	0	0	10/15/2009	918	N	1	WF	WG	0	0	1	A	1	P	A								X					

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate. sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~UPS~~ COOLER#: A B C D E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTI	ACW PTI	0	0	10/15/2009	918	N	1	WF	WG	0	0	1	A	3	G	C	X												
ACW PTI-MS/MSD	ACW PTI	0	0	10/15/2009	918	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
ACW PTI-MS/MSD	ACW PTI	0	0	10/15/2009	918	MS	1	WF	WG	0	0	1	A	2	P	A								X					
ACW PTI-MS/MSD	ACW PTI	0	0	10/15/2009	918	MS	1	WF	WG	0	0	1	A	3	G	C	X												
ACW R2	ACW R2	0	0	10/15/2009	1129	N	1	B	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A B C D E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Steven Bilyeu

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS AS	MBS AS	0	0	10/15/2009	920	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS AS	MBS AS	0	0	10/15/2009	920	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS AS	MBS AS	0	0	10/15/2009	920	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS AS	MBS AS	0	0	10/15/2009	920	N	1	WF	WG	0	0	1	A	2	A	NA					X								
MBS AS	MBS AS	0	0	10/15/2009	920	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS AS	MBS AS	0	0	10/15/2009	920	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS EW-13Bu/B	MBS EW-13Bu	0	0	10/15/2009	1060	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A B C D E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brughman

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTA	MBS PTA	0	0	10/15/2009	830	N	1	WF	WG	0	0	1	A	1	P	NA												X	
MBS PTE AF	MBS PTE AF	0	0	10/15/2009	815	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS PTE AF	MBS PTE AF	0	0	10/15/2009	815	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS PTE AF	MBS PTE AF	0	0	10/15/2009	815	N	1	WF	WG	0	0	1	A	1	P	A								X					
MBS PTE AF	MBS PTE AF	0	0	10/15/2009	815	N	1	WF	WG	0	0	1	A	1	P	NA												X	
MBS PTE AF	MBS PTE AF	0	0	10/15/2009	815	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTE AF	MBS PTE AF	0	0	10/15/2009	815	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1): alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FISTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 13A COOLER#: A | B | C | D | E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Buchanan

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	10/15/2009	845	N	1	WF	WG	0	0	1	A	2	A	NA					X								
MBS PTE AF-MS/MSD	MBS PTE AF	0	0	10/15/2009	845	MS	1	WF	WG	0	0	1	A	2	P	NA												X	
MBS PTI	MBS PTI	0	0	10/15/2009	910	N	1	WF	WG	0	0	1	A	1	P	NA													X
MBS PTI	MBS PTI	0	0	10/15/2009	910	N	1	WF	WG	0	0	1	A	1	P	NA							X						
MBS PTI	MBS PTI	0	0	10/15/2009	910	N	1	WF	WG	0	0	1	A	3	G	C	X												
MBS PTI	MBS PTI	0	0	10/15/2009	910	N	1	WF	WG	0	0	1	A	1	P	A									X				
MBS PTI	MBS PTI	0	0	10/15/2009	910	N	1	WF	WG	0	0	1	A	2	A	NA					X								

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~N/A~~ COOLER#: A/B/C/D/E LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Simon Broughton

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTI	MBS PTI	0	0	10/15/2009	910	N	1	WF	WG	0	0	1	A	3	G	C				X									
MBS PTI-MS/MSD	MBS PTI	0	0	10/15/2009	910	MS	1	WF	WG	0	0	1	A	2	P	NA													X
MBS PTI-MS/MSD	MBS PTI	0	0	10/15/2009	910	MS	1	WF	WG	0	0	1	A	3	G	C				X									
MBS PTI-MS/MSD	MBS PTI	0	0	10/15/2009	910	MS	1	WF	WG	0	0	1	A	4	A	NA					X								
MBS PTI-MS/MSD	MBS PTI	0	0	10/15/2009	910	MS	1	WF	WG	0	0	1	A	2	P	A									X				
MBS PTI-MS/MSD	MBS PTI	0	0	10/15/2009	910	MS	1	WF	WG	0	0	1	A	2	P	NA							X						
MBS PTI-MS/MSD	MBS PTI	0	0	10/15/2009	910	MS	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA **COOLER#:** A B C D E **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Brashears

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTT	MBS PTT	0	0	10/15/2009	1330	N	1	WF	WG	0	0	1	A	3	G	C				X								
MBS PTT	MBS PTT	0	0	10/15/2009	1330	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		BY FOSTER	MWH	10/15/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs Gen Min #1	PAHs Gen Min #2	Pesticides	Hex Chrome
7-BV-01	7-BV-01	0	0	10/19/2009	1156	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-01	7-BV-01	0	0	10/19/2009	1156	N	1	BP	WG	0	0	1	A	1	P	A										X			
7-BV-01	7-BV-01	0	0	10/19/2009	1156	N	1	BP	WG	0	0	1	A	1	P	NA											X		
7-BV-04	7-BV-04	0	0	10/19/2009	1110	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-04	7-BV-04	0	0	10/19/2009	1110	N	1	BP	WG	0	0	1	A	1	P	A										X			
7-BV-04	7-BV-04	0	0	10/19/2009	1110	N	1	BP	WG	0	0	1	A	1	P	NA											X		
7-BV-06	7-BV-06	0	0	10/19/2009	1015	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Ron Bisset	MWH	10/19/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#:	NA	COOLER#:	A	LOG CODE:	MWWC	LAB:	APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Braghman

PROJECT NAME:	MAFB-LF-4Q09
AIR FORCE ID:	MAFB
PROJECT NUMBER:	1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	~~PCBs~~ Gen Min #1	~~PAHs~~ Gen Min #2	Pesticides	Hex Chrome
7-BV-06	7-BV-06	0	0	10/19/2009	1015	N	1	BP	WG	0	0	1	A	1	P	A										X			
7-BV-06	7-BV-06	0	0	10/19/2009	1015	N	1	BP	WG	0	0	1	A	1	P	NA											X		

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Foster	MWH	10/19/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-318	MAFB-318	0	0	10/19/2009	1021	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-354(B)	MAFB-354B	0	0	10/19/2009	1120	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-354(D)	MAFB-354D	0	0	10/19/2009	1100	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-435DF	MAFB-435	0	0	10/19/2009	1255	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-459(D)DF	MAFB-459D	0	0	10/19/2009	1224	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-459(Dd)DF	MAFB-459Dd	0	0	10/19/2009	1205	N	1	DF	WG	0	0	1	A	3	G	C	X												
MBS-MW-5	MBS-MW-5	0	0	10/19/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/19/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA **COOLER#:** A/B **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER [signature]
Shaun Broughman [signature]

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	~~PCBs~~ Gen Min 1 RF	~~PAHs~~ Gen Min 2 RF	Pesticides	Hex Chrome
7-BV-02	7-BV-02	0	0	10/21/2009	1240	N	1	BP	WG	0	0	1	A	1	P	NA										X			
7-BV-02	7-BV-02	0	0	10/21/2009	1240	N	1	BP	WG	0	0	1	A	1	P	A											X		
7-BV-02	7-BV-02	0	0	10/21/2009	1240	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-02-MS/MSD	7-BV-02	0	0	10/21/2009	1240	MS	1	BP	WG	0	0	1	A	2	P	A										RF	X		
7-BV-02-MS/MSD	7-BV-02	0	0	10/21/2009	1240	MS	1	BP	WG	0	0	1	A	2	P	NA										X			
7-BV-07	7-BV-07	0	0	10/21/2009	959	N	1	BP	WG	0	0	1	A	1	P	A											X		
7-BV-07	7-BV-07	0	0	10/21/2009	959	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	ROY FOSTER	MWH	10/21/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: UA COOLER#: A B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER RF

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	~~PCBs~~ Gen Min RF	~~PAHs~~ Gen Min RF	Pesticides	Hex Chrome
7-BV-07	7-BV-07	0	0	10/21/2009	959	N	1	BP	WG	0	0	1	A	1	P	NA										X			
7-BV-08	7-BV-08	0	0	10/21/2009	905	N	1	BP	WG	0	0	1	A	1	P	NA										X			
7-BV-08	7-BV-08	0	0	10/21/2009	905	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-BV-08	7-BV-08	0	0	10/21/2009	905	N	1	BP	WG	0	0	1	A	1	P	A											X		
7-BV-13	7-BV-13	0	0	10/21/2009	1047	N	1	BP	WG	0	0	1	A	3	G	C			X										
7-BV-13	7-BV-13	0	0	10/21/2009	~~1047~~ 1047 RF	N	1	BP	WG	0	0	1	A	2	A	NA				X									
7-BV-13	7-BV-13	0	0	10/21/2009	1047	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/21/2009	1438
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A|B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Shawn Braghman

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37(P)	7-PZ-37P	0	0	10/21/2009	1030	N	1	BP	WG	0	0	1	A	2	A	NA				X									
7-PZ-37(P)	7-PZ-37P	0	0	10/21/2009	1030	N	1	BP	WG	0	0	1	A	3	G	C			X										
7-PZ-37(P)	7-PZ-37P	0	0	10/21/2009	1030	N	1	BP	WG	0	0	1	A	3	G	C	X												
7-PZ-37(P)	7-PZ-37P	0	0	10/21/2009	1030	N	1	BP	WG	0	0	1	A	1	P	A					X								
7-PZ-37(P)	7-PZ-37P	0	0	10/21/2009	1030	N	1	BP	WG	0	0	1	A	1	P	NA													X
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	10/21/2009	1030	MS	1	BP	WG	0	0	1	A	2	P	A					X								
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	10/21/2009	1030	MS	1	BP	WG	0	0	1	A	3	G	C			X										

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	10/21/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: DA COOLER#: A|B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster [signature]

Shawn Broughton [signature]

PROJECT NAME: MAFB-LF-4Q09

AIR FORCE ID: MAFB

PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	10/21/2009	1030	MS	1	BP	WG	0	0	1	A	3	G	C	X												
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	10/21/2009	1030	MS	1	BP	WG	0	0	1	A	2	P	NA													X
7-PZ-37(P)-MS/MSD	7-PZ-37P	0	0	10/21/2009	1030	MS	1	BP	WG	0	0	1	A	4	A	NA				X									
LF-MW-1	LF-MW-1	0	0	10/21/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C			X										
LF-MW-1	LF-MW-1	0	0	10/21/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-044	MAFB-044	0	0	10/21/2009	911	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-044	MAFB-044	0	0	10/21/2009	911	N	1	BP	WG	0	0	1	A	2	A	NA				X									

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	[signature]	Roy Foster	MWH	10/21/2009	1458
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~NA~~ COOLER#: A B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	~~PCBs~~ Gn Mn 1	~~PAHs~~ Gn Mn 2	Pesticides	Hex Chrome
MAFB-284	MAFB-284	0	0	10/21/2009	1157	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-284	MAFB-284	0	0	10/21/2009	1157	N	1	BP	WG	0	0	1	A	1	P	NA													X
MAFB-284	MAFB-284	0	0	10/21/2009	1157	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-284	MAFB-284	0	0	10/21/2009	1157	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-284	MAFB-284	0	0	10/21/2009	157	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-951	MAFB-951	0	0	10/21/2009	1300	N	1	BP	WG	0	0	1	A	1	P	NA									X				
MAFB-951	MAFB-951	0	0	10/21/2009	1300	N	1	BP	WG	0	0	1	A	1	P	A										X			

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/21/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A/B LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Rob Foster

Shawna Brougham

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST											
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-954	MAFB-954	0	0	10/21/2009	941	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-954	MAFB-954	0	0	10/21/2009	941	N	1	BP	WG	0	0	1	A	2	A	NA				X								
MAFB-954	MAFB-954	0	0	10/21/2009	941	N	1	BP	WG	0	0	1	A	3	G	C			X									
MAFB-954	MAFB-954	0	0	10/21/2009	941	N	1	BP	WG	0	0	1	A	1	P	NA												X
MAFB-954	MAFB-954	0	0	10/21/2009	941	N	1	BP	WG	0	0	1	A	1	P	A					X							

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Foster	MWH	10/21/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~NA~~ COOLER#: ~~A~~ LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-438DF	MAFB-438	0	0	10/22/2009	1236	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/22/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: OA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Fister
Shawn Broyhurer

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-2	LF-MW-2	0	0	10/22/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C			X										
LF-MW-2	LF-MW-2	0	0	10/22/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X												
MAFB-132L	MAFB-132	0	0	10/22/2009	1027	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-132L	MAFB-132	0	0	10/22/2009	1027	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-132L	MAFB-132	0	0	10/22/2009	1027	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-136L	MAFB-136	0	0	10/22/2009	1201	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-136L	MAFB-136	0	0	10/22/2009	1201	N	1	BP	WG	0	0	1	A	1	P	NA							X						

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Fister	MWH	10/22/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~XYA~~ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy Foster
Sharon Broughman

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-136L	MAFB-136	0	0	10/22/2009	1201	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-149	MAFB-149	0	0	10/22/2009	932	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-149	MAFB-149	0	0	10/22/2009	932	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-149	MAFB-149	0	0	10/22/2009	932	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-149	MAFB-149	0	0	10/22/2009	952	N	1	BP	WG	0	0	1	A	2	A	NA				X									
MAFB-149	MAFB-149	0	0	10/22/2009	952	N	1	BP	WG	0	0	1	A	1	P	NA													X
MAFB-399	MAFB-399	0	0	10/22/2009	918	N	1	BP	WG	0	0	1	A	1	P	A					X								

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	10/22/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#:	N/A	COOLER#:	A	LOG CODE:	MWWC	LAB:	APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roi Foster
Shawn Broughman

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-399	MAFB-399	0	0	10/22/2009	918	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-399	MAFB-399	0	0	10/22/2009	918	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-400	MAFB-400	0	0	10/22/2009	1128	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-400	MAFB-400	0	0	10/22/2009	1128	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-400	MAFB-400	0	0	10/22/2009	1128	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-413	MAFB-413	0	0	10/22/2009	852	N	1	BP	WG	0	0	1	A	3	G	C			X										
MAFB-413	MAFB-413	0	0	10/22/2009	852	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roi Foster	MWH	10/22/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#:	KA	COOLER#:	A	LOG CODE:	MWWC	LAB:	APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster
Shawn Broughman

PROJECT NAME:	MAFB-LF-4Q09
AIR FORCE ID:	MAFB
PROJECT NUMBER:	1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-413	MAFB-413	0	0	10/22/2009	852	N	1	BP	WG	0	0	1	A	2	A	NA				X										
MAFB-413	MAFB-413	0	0	10/22/2009	852	N	1	BP	WG	0	0	1	A	1	P	A					X									
MAFB-413	MAFB-413	0	0	10/22/2009	852	N	1	BP	WG	0	0	1	A	1	P	NA														X
MAFB-424	MAFB-424	0	0	10/22/2009	1019	N	1	BP	WG	0	0	1	A	3	G	C	X													
MAFB-424	MAFB-424	0	0	10/22/2009	1019	N	1	BP	WG	0	0	1	A	1	P	NA							X							
MAFB-424	MAFB-424	0	0	10/22/2009	1019	N	1	BP	WG	0	0	1	A	1	P	A					X									
MAFB-424	MAFB-424	0	0	10/22/2009	1019	N	1	BP	WG	0	0	1	A	1	P	NA														X

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	10/22/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797048556470 COOLER#: LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Sharon Broughton

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
ACW PZ-05DF	ACW PZ-05	0	0	10/23/2009	1125	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-433DF	MAFB-433	0	0	10/23/2009	1105	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-453(C)DF	MAFB-453C	0	0	10/23/2009	820	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-453DF	MAFB-453	0	0	10/23/2009	810	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-454(C)DF	MAFB-454C	0	0	10/23/2009	930	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-454DF	MAFB-454	0	0	10/23/2009	850	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-455DF	MAFB-455	0	0	10/23/2009	1040	N	1	DF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Ron Foster	MWH	10/23/2009	1930
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797048156470 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	1,4-Dioxane	LF Gen Min	VOCs 524.2	Perchlorate
MAFB-456(C)DF	MAFB-456C	0	0	10/23/2009	1025	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-456DF	MAFB-456	0	0	10/23/2009	1010	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-942	MAFB-942	0	0	10/23/2009	1140	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT on VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity -total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rob Fisher	MWH	10/23/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797048156470 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
FFS-EW-15-1DF	FFS EW15-1	0	0	10/23/2009	1051	N	1	DF	WG	0	0	1	A	3	G	C	X												
FFS-EW-15-2DF	FFS EW15-2	0	0	10/23/2009	1038	N	1	DF	WG	0	0	1	A	3	G	C	X												
FFS-MW-15-1DF	FFS MW15-1	0	0	10/23/2009	1017	N	1	DF	WG	0	0	1	A	3	G	C	X												
FFS-MW-15-2DF	FFS MW15-2	0	0	10/23/2009	1008	N	1	DF	WG	0	0	1	A	3	G	C	X												
FFS-MW-15-3DF	FFS MW15-3	0	0	10/23/2009	958	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-293	MAFB-293	0	0	10/23/2009	1131	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-457(Bd)DF	MAFB-457Bd	0	0	10/23/2009	845	N	1	DF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/23/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 797041564 70 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-458(Bs)DF	MAFB-458Bs	0	0	10/23/2009	907	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS-MW-4	MBS-MW-4	0	0	10/23/2009	1415	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1): alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:			MWH	10/23/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796064977220 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER
Shawn Brayhurn

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-378(B)DF	MAFB-378B	0	0	10/26/2009	1001	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(D)DF	MAFB-378D	0	0	10/26/2009	948	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-378(D)DF-MS/MSD	MAFB-378D	0	0	10/26/2009	948	MS	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-397DF	MAFB-397	0	0	10/26/2009	1015	N	1	DF	WG	0	0	1	A	3	G	C		X											
MAFB-419	MAFB-419	0	0	10/26/2009	1102	N	1	BP	WG	0	0	1	A	3	G	C				X									
MAFB-419	MAFB-419	0	0	10/26/2009	1102	N	1	BP	WG	0	0	1	A	2	A	NA					X								
MAFB-434(Bd)DF	MAFB-434Bd	0	0	10/26/2009	1210	N	1	DF	WG	0	0	1	A	3 2	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/26/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796064977220 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Roy FOSTER
Shawn Broyhurn

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-442DF	MAFB-442	0	0	10/26/2009	1120	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-450DF	MAFB-450	0	0	10/26/2009	1206	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-934	MAFB-934	0	0	10/26/2009	915	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-958	MAFB-958	0	0	10/26/2009	1230	N	1	WF	WG	0	0	1	A	3 2	G	C	X												
MBS-MW-1	MBS-MW-1	0	0	10/26/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C				X									
MBS-MW-1	MBS-MW-1	0	0	10/26/2009	1406	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	10/26/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 796064977220 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-111	MAFB-111	0	0	10/26/2009	1018	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-129	MAFB-129	0	0	10/26/2009	813	N	1	BP	WG	0	0	1	A	1	P	A									X				
MAFB-288	MAFB-288	0	0	10/26/2009	845	N	1	BP	WG	0	0	1	A	1	P	A									X				

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Fisher	MWH	10/26/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
LF-MW-6	LF-MW-6	0	0	10/27/2009	1406	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-133L	MAFB-133	0	0	10/27/2009	1118	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-133L	MAFB-133	0	0	10/27/2009	1118	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-133L	MAFB-133	0	0	10/27/2009	1118	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-133L-MS/MSD	MAFB-133	0	0	10/27/2009	1118	MS	1	BP	WG	0	0	1	A	2	P	A					X								
MAFB-133L-MS/MSD	MAFB-133	0	0	10/27/2009	1118	MS	1	BP	WG	0	0	1	A	2	P	NA							X						
MAFB-133L-MS/MSD	MAFB-133	0	0	10/27/2009	1118	MS	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/27/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: ~~NA~~ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
ROY FOSTER

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-398(C)	MAFB-398C	0	0	10/27/2009	935	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-398(C)	MAFB-398C	0	0	10/27/2009	935	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-398(C)	MAFB-398C	0	0	10/27/2009	935	N	1	BP	WG	0	0	1	A	3	G	C		X											
MAFB-948	MAFB-948	0	0	10/27/2009	1010	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-948	MAFB-948	0	0	10/27/2009	1010	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-948	MAFB-948	0	0	10/27/2009	1010	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	10/27/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Sharon Braughman

PROJECT NAME: MAFB-OFB-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
Gould	OFB-31	0	0	10/27/2009	940	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Influent	OFB-51/52I	0	0	10/27/2009	755	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Mid-GAC	OFB-51/52M	0	0	10/27/2009	800	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH1	OFB-51	0	0	10/27/2009	808	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH2	OFB-52	0	0	10/27/2009	820	N	1	WF	WG	0	0	1	A	3	G	C				X									
MAFB-926	MAFB-926	0	0	10/27/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C				X									
MAFB-927	MAFB-927	0	0	10/27/2009	830	N	1	WF	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	10/27/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-OFB-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
Mars	OFB-27	0	0	10/27/2009	1000	N	1	WF	WG	0	0	1	A	3	G	C				X								
Mars-MS/MSD	OFB-27	0	0	10/27/2009	1000	MS	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Influent	OFB-04	0	0	10/27/2009	1055	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Mid-GAC	OFB-04M	0	0	10/27/2009	1100	N	1	WF	WG	0	0	1	A	3	G	C				X								
Nut Plains	OFB-32	0	0	10/27/2009	925	N	1	WF	WG	0	0	1	A	3	G	C				X								
Oaken Bucket	OFB-49	0	0	10/27/2009	1020	N	1	WF	WG	0	0	1	A	3	G	C				X								
OFB-MW-3	OFB-MW-3	0	0	10/27/2009	1300	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Bjser	MWH	10/27/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: NA COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Bronshman

PROJECT NAME: MAFB-OFB-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
South Port	OFB-54	0	0	10/27/2009	1125	N	1	WF	WG	0	0	1	A	3	G	C				X								
Tallyho #2	OFB-56	0	0	10/27/2009	1205	N	1	WF	WG	0	0	1	A	3	G	C				X								
Westporter	OFB-55	0	0	10/27/2009	1155	N	1	WF	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY GSTBL	MWH	10/27/2009	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 8638-6838.0022 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broyhamm

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-441DF	MAFB-441	0	0	10/28/2009	11:05	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-451DF	MAFB-451	0	0	10/28/2009	10:45	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-452(B)DF	MAFB-452B	0	0	10/28/2009	10:35	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-452(Bu)DF	MAFB-452Bu	0	0	10/28/2009	10:20	N	1	DF	WG	0	0	1	A	3	G	C	X												
MBS-MW-3	MBS-MW-3	0	0	10/28/2009	1400	N	1	BP	WG	0	0	1	A	3	G	C	X												
OFB-72	OFB-72	0	0	10/28/2009	8:50	N	1	WF	WG	0	0	1	A	3	G	C		X											
OFB-80	OFB-80	0	0	10/28/2009	9:35	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Shawn Broyhamm	MWH	10/28/2009	1410
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 8638.6898.0022 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
OFB-85	OFB-85	0	0	10/28/2009	9:05	N	1	WF	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Shawn Broughman	MWH	10/28/2009	1910
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy Foster

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	10/29/2009	906	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy Foster	MWH	10/29/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	10/29/2009	1002	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	10/29/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: **COOLER#:** A **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Rol FOSTER
Shawn Broughman

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	10/29/2009	1033	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	10/29/2009	1033	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	10/29/2009	1336	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	10/29/2009	1330	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Rol FOSTER	MWH	10/29/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ **COOLER#:** A **LOG CODE:** MWWC **LAB:** APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

Shawn Braughman

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-290DF	MAFB-290	0	0	10/29/2009	1040	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-382(B)DF	MAFB-382B	0	0	10/29/2009	1015	N	1	DF	WG	0	0	1	A	3	G	C		X										
MAFB-439	MAFB-439	0	0	10/29/2009	839	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-439	MAFB-439	0	0	10/29/2009	839	N	1	BP	WG	0	0	1	A	2	A	NA					X							
MAFB-439	MAFB-439	0	0	10/29/2009	839	N	1	BP	WG	0	0	1	A	1	P	A						X						
MAFB-439	MAFB-439	0	0	10/29/2009	839	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-439-MS/MSD	MAFB-439	0	0	10/29/2009	839	MS	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	10/29/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: | COOLER#: A | LOG CODE: MWWC | LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER
Shawn Broughman

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-964	MAFB-964	0	0	10/29/2009	811	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	10/29/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 1294 3041 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	11/12/2009	918	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	11/12/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 1294 3041 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	11/12/2009	941	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	11/12/2009	941	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTT	7-PTT	0	0	11/12/2009	1010	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTT	7-PTT	0	0	11/12/2009	1010	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	11/12/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 1294 3041 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

MBS N 11/13/09

PROJECT NAME: MAFB ~~ACW~~-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST											
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
~~ACW PTE~~ N 11/13/09	~~ACW PTE~~	0	0	11/12/2009	859	N	1	WF	WG	0	0	1	A	3	G	C	X											

MBS PTE AF MBS PTE AF

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	11/12/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 4614 8201 COOLER#: LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Venkata Ganesh Nagiseth G

PROJECT NAME: MAFB-OFB-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (short)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2	LF Metals	Sulfide	LF Gen Min	Perchlorate
JH Influent	OFB-51/52I	0	0	11/24/2009	9:30	N	1	WF	WG	0	0	1	A	3	G	C				X								
JH Mid-GAC	OFB-51/52M	0	0	11/24/2009	9:35	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Influent	OFB-04	0	0	11/24/2009	9:05	N	1	WF	WG	0	0	1	A	3	G	C				X								
Moonbeam Mid-GAC	OFB-04M	0	0	11/24/2009	9:10	N	1	WF	WG	0	0	1	A	3	G	C				X								
OFB-MW-1	OFB-MW-1	0	0	11/24/2009	12:00	N	1	BP	WG	0	0	1	A	3	G	C				X								

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-Gac and Moonbeam Mid-Gac: 3 Day TAT!
JH Influent, Moonbeam Influent: 2 week TAT

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	Venkata Ganesh N	MWH / Engineer	11/24/2009	12:30
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 4614 8201 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	11/24/2009	818	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	11/24/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 4614 820 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Roy FOSTER

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	11/24/2009	952	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	11/24/2009	952	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	11/24/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	11/24/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Roy FOSTER	MWH	11/24/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 4614 8201 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	11/24/2009	915	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	11/24/2009	1100
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7981 7849 3728 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-460(Bd)	MAFB-460Bd	0	0	11/30/2009	1132	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-460(Bs)	MAFB-460Bs	0	0	11/30/2009	1302	N	1	DF	WG	0	0	1	A	3	G	C	X												
MBS-MW-3	MBS-MW-3	0	0	11/30/2009	1230	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	11/30/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 6208 9704 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

ROY FOSTER

PROJECT NAME: MAFB-LF-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES				LOT CONTROL							ANALYSIS REQUEST												
						SA	SN	SM	MC	AB	EB	TB	CO	BC	CT	PR	HVOCs (long)	HVOCs (short)	TPH-Gas	TPH-Diesel	LF Metals (Diss.)	Lead & Manganese	LF Gen Min	Nickel (Diss.)	Nickel & Chrome	PCBs	PAHs	Pesticides	Hex Chrome
MAFB-398	MAFB-398	0	0	12/1/2009	1131	N	1	BP	WG	0	0	1	A	1	P	A					X								
MAFB-398	MAFB-398	0	0	12/1/2009	1131	N	1	BP	WG	0	0	1	A	1	P	NA							X						
MAFB-398	MAFB-398	0	0	12/1/2009	1131	N	1	BP	WG	0	0	1	A	3	G	C		X											

Comments/Instructions:
All "LF Metals" and "Lead and Thallium" samples are field filtered!
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841)
LF Gen Min: TDS (E160.1); alkalinity-total, bicarbonate, carbonate (SM2320); chloride, sulfate (E300.0); fluoride (E340.2); sulfide (E376.1). ***Run sulfide on unpreserved bottle!!***

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	12/1/2009	1410
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 6203 9704 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-436	MAFB-436	0	0	12/1/2009	1040	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-436	MAFB-436	0	0	12/1/2009	1040	N	1	BP	WG	0	0	1	A	2	A	NA					X							
MAFB-436	MAFB-436	0	0	12/1/2009	1040	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-461(Bd)	MAFB-461Bd	0	0	12/1/2009	906	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-461(Bs)	MAFB-461Bs	0	0	12/1/2009	946	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS-MW-1	MBS-MW-1	0	0	12/1/2009	1350	N	1	BP	WG	0	0	1	A	3	G	C				X								
MBS-MW-1	MBS-MW-1	0	0	12/1/2009	1350	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	12/1/2009	1410
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#:	COOLER#: A	LOG CODE: MWWC	LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME:	MAFB-ACW-4Q09
AIR FORCE ID:	MAFB
PROJECT NUMBER:	1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	12/10/2009	1005	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	12/10/2009	1147
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	12/11/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#:	COOLER#: A	LOG CODE: MWWC	LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. TIMMERING JR.

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	12/10/2009	0830	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. TIMMERING JR.	MWH	12/10/2009	1147
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	12/10/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

66505
66508

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	12/10/2009	1035	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTE	7-PTE	0	0	12/10/2009	1035	N	1	WF	WG	0	0	1	A	3	G	C	X												
7-PTT	7-PTT	0	0	12/10/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X									
7-PTT	7-PTT	0	0	12/10/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR.	MWH	12/10/2009	1149
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	12/11/09	1000

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

60591

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. TIMMERING JR.

PROJECT NAME: MAFB-ACW-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	VOCs 524.2	Perchlorate
ACW PTE	ACW PTE	0	0	12/22/2009	1015	N	1	WF	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
ACW PTE - 1 week TAT for VOCs only!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. TIMMERING JR	MWH	12/22/2009	1209
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vorig	Appl Inc	12/23/09	1300

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: VA LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. THEURING JR.

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST: HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MBS PTE AF	MBS PTE AF	0	0	12/22/2009	0805	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF - 1 week TAT!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. THEURING JR	MWH	12/22/2009	1210
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vroy	Appl Inc	12/23/09	1300

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

60592
60593

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: _____ COOLER#: A. LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
CHARLES T. TIMBERING JR.

PROJECT NAME: MAFB-ST7-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SM	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	PAHs	PCB	Pesticides	Hex Chrom
7-PTE	7-PTE	0	0	12/22/2009	1055	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTE	7-PTE	0	0	12/22/2009	1055	N	1	WF	WG	0	0	1	A	3	G	C	X											
7-PTT	7-PTT	0	0	12/22/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C				X								
7-PTT	7-PTT	0	0	12/22/2009	0800	N	1	WF	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
7-PTE: 1 week TAT for VOCs only!
All Gen Min 2 samples are field filtered!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2)
Gen Min 2: Ca, Cu, Fe (tot), Mg, Mn, Na, Zn (SW6010)

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		CHARLES T. TIMBERING	MWH	12/22/2009	1208
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vang	Appl Inc.	12/23/09	1300

For Lab Use Only: Sample Condition on Receipt:

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7931 4195 2001 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Venkata Ganesh Nagisetti G

PROJECT NAME: MAFB-OFB-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	VOCs 524.2	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	Gen Min 2 (Diss.)	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate
JH Influent	OFB-51/52I	0	0	12/29/2009	9:30	N	1	WF	WG	0	0	1	A	3	G	C				X									
JH Mid-GAC	OFB-51/52M	0	0	12/29/2009	9:35	N	1	WF	WG	0	0	1	A	3	G	C				X									
Moonbeam Influent	OFB-04	0	0	12/29/2009	9:15	N	1	WF	WG	0	0	1	A	3	G	C				X									
Moonbeam Mid-GAC	OFB-04M	0	0	12/29/2009	9:20	N	1	WF	WG	0	0	1	A	3	G	C				X									
OFB-MW-1	OFB-MW-1	0	0	12/29/2009	10:00	N	1	BP	WG	0	0	1	A	3	G	C				X									

Comments/Instructions:

VOCs 524.2: complete list with low level detections
JH Mid-GAC and Moonbeam Mid-GAC - 3 Day TAT!
JH Influent and Moonbeam Influent - 2 week TAT.

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	G	Venkata Ganesh Nagisetti	MWH	12/29/2009	12:00
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

REFERENCES

Air Force Center for Environmental Excellence (AFCEE) Headquarters, 2001. Quality Assurance Project Plan, Version 4.0.01. Air Force Center for Environmental Excellence, Brooks Air Force Base, Texas. May 2005.

Montgomery Watson, 1997a. Final Basewide Groundwater Monitoring Sampling and Analysis Plan, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1997b. Final AC&W Site Sampling and Analysis Plan, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1997c. Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Off-Base Sampling, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 1999. Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Site 7 Performance Sampling, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

Montgomery Watson, 2000. Final Addendum to the Final Basewide Groundwater Monitoring Sampling and Analysis Plan for Main Base/SAC Performance Sampling – Revision 1, Former Mather Air Force Base, California. Prepared for Air Force Center for Environmental Excellence.

U.S. Department of the Air Force, 1993. "Headquarters Air Force Center for Environmental Excellence (AFCEE) Handbook for the Installation Restoration Program (IRP) Remedial Investigation/ Feasibility Studies (RI/FS)," Environmental Services Directorate, Brooks Air Force Base, Texas.

TABLES

TABLE H-1

DATA QUALIFIER SUMMARY
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
INITIAL CALIBRATION RESULTS						
SW6010/ MAFB-133	Manganese	89.9 (%R)	90-110 (%R)	R (all results)	Initial calibration recovery for this compound on 11/02/09 was outside control limits.	ICV recovery below project control limits would indicate that sample results for manganese are potentially biased low. Since the managese result for this sample is ND, the result should be considered invalid. However, manganese is not a COC for Mather and this data is not critical in satisfying project specific data quality objectives.
INITIAL AND CONTINUAL CALIBRATION VERIFICATION						
No deviations to report						
SURROGATE RESULTS						
SW8260/ MAFB-378B (FD)	All analytes	120 (%R)	72-119 (%R)	J (all detects)	Surrogate recovery for 1,2-dichloroethane-d4 was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ MAFB-397	All analytes	120 (%R)	72-119 (%R)	J (all detects)	Surrogate recovery for 1,2-dichloroethane-d4 was outside the control limits.	The J flag does not have any significant impact to the data quality.
SW8260/ MAFB-397	All analytes	116 (%R)	85-115 (%R)	J (all detects)	Surrogate recovery for dibromofluoromethane was outside the control limits.	The J flag does not have any significant impact to the data quality.
LABORATORY CONTROL SAMPLE RESULTS						
No deviations to report						
MATRIX SPIKE/MATRIX SPIKE RESULTS						
SW8260/ 7-PTE-10/01/09, 7-PTE-10/15/09, 7-PTE-10/29/09, 7-PTE-11/12/09, 7-PTE-11/24/09, 7-PTE-12/10/09, 7-PTE-12/22/09, 7-PTI-10/15/09, 7-PTI-10/15/09 (FD), MAFB-444, MAFB-445, MAFB-446, MAFB-446 (FD), MAFB-447, MAFB-448	Benzene Methylene chloride Trichloroethene	79/79 (%R MS/MSD) 58/59 (%R MS/MSD) 61/58 (%R MS/MSD)	81-122 (%R) 63-137 (%R) 70-127 (%R)	M (all results) M (all results) M (all results)	MS/MSD recoveries for these compounds in sample 7-PTI-10/15/09 were outside control limits.	The M flag does not have any significant impact to the data quality.
SW8260/ ACW PTE-10/01/09, ACW PTE-10/15/09, ACW PTE-10/29/09, ACW PTE-11/12/09, ACW PTE-11/24/09, ACW PTE-12/10/09, ACW PTE-12/22/09, ACW PTI-10/15/09, ACW PTI-10/15/09 (FD), ACW PZ-05, ACW R2, MAFB-433, MAFB-433 (FD), MAFB-453, MAFB-453C, MAFB-454, MAFB-454C, MAFB-455, MAFB-456, MAFB-456C	1,1-Dichloroethene Benzene Methylene chloride	63/67 (%R MS/MSD) 76/78 (%R MS/MSD) 53/56 (%R MS/MSD)	68-130 (%R) 81-122 (%R) 63-137 (%R)	M (all results) M (all results) M (all results)	MS/MSD recoveries for these compounds in sample ACW PTI-10/15/09 were outside control limits.	The M flag does not have any significant impact to the data quality.

Mather AR # 2970.1 Page 960 of 1088

TABLE H-1

DATA QUALIFIER SUMMARY
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
SW8260/ FFS EW15-1, FFS EW15-2, FFS MW15-1, FFS MW15-2, FFS MW15-3, MAFB-293, MAFB-397, MAFB-434Bd, MAFB-434Bd (FD), MAFB-439, MAFB-439 (FD), MAFB-441, MAFB-442, MAFB-450, MAFB-451, MAFB-452B, MAFB-452Bu, OFB-72, OFB-80, OFB-85	Tetrachloroethene	-1 (%R MS)	66-128 (%R)	M (all results)	MS recovery for this compound in sample MAFB-439 was outside control limits.	The M flag does not have any significant impact to the data quality.
USEPA 524.2/ MAFB-271, MAFB-319, MAFB-319 (FD), MAFB-321, MAFB-322, MAFB-324, MAFB-324 (FD), MAFB-326, MAFB-328, MAFB-330, MAFB-336, MAFB-337, MAFB-338, OFB-31, OFB-32, OFB-49, OFB-54, OFB-55, OFB-56	1,1,2,2-Tetrachloroethene 1,1,2,2-Tetrachloroethene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane Naphthalene Naphthalene	77 (%R MS) 27.2% (RPD) 73 (%R MS) 72 (%R MS) 27.7% (RPD) 67 (%R MS) 24.1% (RPD) 69 (%R MS) 65 (%R MS) 35.1% (RPD)	80-120 (%R) 0-20% (RPD) 80-120 (%R) 80-120 (%R) 0-20% (RPD) 80-120 (%R) 0-20% (RPD) 80-120 (%R) 80-120 (%R) 0-20% (RPD)	M (all results) M (all results) M (all results) M (all results) M (all results) M (all results) M (all results) M (all results) M (all results) M (all results)	MS and RPD recoveries for these compounds in sample MAFB-324 were outside control limits.	The M flag does not have any significant impact to the data quality.
USEPA 524.2/ OFB-04-10/27/09, OFB-04-11/24/09, OFB-04-12/29/09, OFB-04M-10/27/09, OFB-04M-11/24/09, OFB-04M-12/29/09, OFB-27, OFB-27 (FD), OFB-51, OFB-51/52I-10/27/09, OFB-51/52I-11/24/09, OFB-51/52I-12/29/09, OFB-51/52M-10/27/09, OFB-51/52M-11/24/09, OFB-51/52M-12/29/09, OFB-52, OFB-52 (FD)	1,2-Dibromo-3-chloropropane	76 (%R MSD)	80-120 (%R)	M (all results)	MSD recovery for this compound in sample OFB-27 was outside control limits.	The M flag does not have any significant impact to the data quality.
SW6010/ 7-BV-01, 7-BV-02, 7-BV-02 (FD), 7-BV-04, 7-BV-06, 7-BV-07, 7-BV-08	Calcium Magnesium Sodium	72/12 (%R MS/MSD) 47 (%R MSD) 72 (%R MSD)	80-120 (%R) 80-120 (%R) 80-120 (%R)	M (all results) M (all results) M (all results)	MS/MSD recoveries for these compounds in sample 7-BV-02 were outside control limits.	The M flag does not have any significant impact to the data quality.
USEPA 300.0/ 7-BV-01, 7-BV-02, 7-BV-02 (FD), 7-BV-04, 7-BV-06, 7-BV-07, 7-BV-08, MAFB-424	Sulfate	116 (%R MSD)	85-115 (%R)	M (all results)	MSD recoveries for this compound in sample 7-BV-02 was outside control limits.	The M flag does not have any significant impact to the data quality.
FIELD DUPLICATE RESULTS						
SW8260/ 7-PTE-10/15/09, 7-PTI-10/15/09, 7-PTI-10/15/09 (FD)	1,2-Dichloroethane cis-1,2-Dichloroethene	23.3% (RPD) 37.8% (RPD)	0-20% (RPD) 0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample 7-PTI-10/15/09 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
SW8260/ MAFB-378B, MAFB-378B (FD), MAFB-378D, MAFB-397, MAFB-434Bd, MAFB-434Bd (FD), MAFB-442, MAFB-450	cis-1,2-Dichloroethene	23.0% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-434Bd exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.

Mather AR # 2970.1 Page 961 of 1088

TABLE H-1

DATA QUALIFIER SUMMARY
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
USEPA 524.2/ MAFB-271, MAFB-319, MAFB-319 (FD), MAFB-321, MAFB-322, MAFB-324, MAFB-324 (FD), MAFB-326, MAFB-328, MAFB-337, MAFB-338	Tetrachloroethene	90.4% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample MAFB-324 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
USEPA 130.2/ ACW PTE-10/15/09, ACW PTI-10/15/09, ACW PTI-10/15/09 (FD)	Hardness	26.3% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample ACW PTI-10/15/09 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
USEPA 130.2/ 7-BV-02, 7-BV-02 (FD), 7-BV-07, 7-BV-08,	Hardness	28.2% (RPD)	0-20% (RPD)	J (all detects); UJ (all non-detects)	Field duplicate results for sample 7-BV-02 exceeded control limits.	Neither the J flag nor the UJ flag have any significant impact to the data quality.
LABORATORY DUPLICATE SAMPLE RESULTS						
No deviations to report						
INTERNAL STANDARD RESULTS						
No deviations to report						
POST DIGESTION SPIKE RESULTS						
No deviations to report						
ICP INTERFERENCE CHECK SAMPLE RESULTS						
SW6010/ 7-PTE-10/15/09, 7-PTI-10/15/09, 7-PTI-10/15/09 (FD), ACW PTE-10/15/09, ACW PTI-10/15/09, ACW PTI-10/15/09 (FD)	Calcium Magnesium Sodium	NA	NA	J (all detects)	An ICP serial dilution is not associated with these samples.	The J flag does not have any significant impact to the data quality.
BLANK DETECTIONS						
SW8260/ MAFB-378B, MAFB-378B (FD)	Chloroform	NA	NA	B (all detects)	TB-10/26/09 contained 0.55 µg/L of chloroform.	The B flag does not have any significant impact to the data quality.
SW8260/ 7-PTE-12/10/09, ACW PTE-12/10/09, MBS PTE AF-12/10/09	Trichloroethene	NA	NA	B (all detects)	MB-12/11/09 contained 0.22 µg/L of trichloroethene.	The B flag does not have any significant impact to the data quality.
USEPA 524.2/ OFB-27	Methylene chloride	NA	NA	B (all detects)	TB-10/27/09 contained 0.40 µg/L of methylene chloride.	The B flag does not have any significant impact to the data quality.
SW6010/ MAFB-133, MAFB-133 (FD), MAFB-398C	Selenium	NA	NA	B (all detects)	CCB-11/02/09 contained 4.61 µg/L of selenium.	The B flag does not have any significant impact to the data quality.
SW7470/ MAFB-133, MAFB-133 (FD), MAFB-398C	Mercury	NA	NA	B (all detects)	CCB-11/02/09 contained 0.128 µg/L of mercury.	The B flag does not have any significant impact to the data quality.

Mather AR # 2970.1 Page 962 of 1088

TABLE H-1

DATA QUALIFIER SUMMARY
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

METHOD/ASSOCIATED SAMPLES	COMPOUND	NON-COMPLIANCE	CRITERIA	FLAG	REASON	DATA ASSESSMENT
SW7470/ MAFB-284	Mercury	NA	NA	B (all detects)	CCB-10/29/09 contained 0.112 µg/L of mercury.	The B flag does not have any significant impact to the data quality.
HOLDING TIME EXCEEDANCES						
USEPA 376.1/ MAFB-132, MAFB-136, MAFB-399	Total sulfide	NA	NA	J (all detects); R (all non-detects)	Samples were analyzed 7 days outside of the 24 hour holding time for unpreserved samples.	Sample analysis outside of the method specific holding time possibly results in loss of the analyte. Therefore, the R flag is applied to invalidate the data. However, sulfide is not a COC for Mather and this data is not critical in satisfying project specific data quality objectives.
USEPA 376.1/ MAFB-398	Total sulfide	NA	NA	J (all detects); UJ (all non-detects)	Sample was analyzed 5.5 hours outside of the 24 hour holding time for unpreserved samples.	Sample analysis outside of but close to the method specific holding time possibly results in loss of the analyte. Therefore, the data should be considered estimated. Neither the J flag nor the UJ flag have any significant impact to the data quality.

Notes:
%R - Percent Recovery
B - Analyte detected in blank.
CCB - Continuing Calibration Blank
COC - Contaminant of Concern
FD - Field Duplicate
ICP - Inductively Coupled Plasma
ICV - Initial Calibration Verification
J - Result is an estimate.
M - Matrix effect was present.
MB - Method Blank
µg/L - Micrograms per Liter
MS - Matrix Spike
MSD - Matrix Spike Duplicate
NA - Not Applicable
ND - Not Detected
R - Result is invalid.
RPD - Relative Percent Difference
UJ - Result is not detected, but is estimated.

TABLE H-2

FIELD DUPLICATE PRECISION STUDY
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
7-BV-02	Alkalinity, total	mg/L	381		394		3.4
	Calcium	µg/L	123,000	M	128,000	M	4.0
	Chloride	mg/L	10.2		10.0		2.0
	Hardness as CaCO3	mg/L	125	J	166	J	28.2
	Iron	µg/L	23.4	F	39.8	F	51.9*
	Magnesium	µg/L	66,300	M	69,800	M	5.1
	Manganese	µg/L	8.5	F	8.7	F	2.3
	Nitrogen, nitrate	mg/L	2.6		2.5		3.9
	Sodium	µg/L	28,800	M	30,800	M	6.7
	Solids, total dissolved	mg/L	794		765		3.7
	Sulfate	mg/L	276	JM	271	JM	1.8
	Zinc	µg/L	12	F	2.8	F	124.3*
7-BV-02 (RE)	Sulfate	mg/L	227		225		0.9
7-PTI-10/15/09	1,1-Dichloroethane	µg/L	0.6	F	0.87	F	36.7
	1,1-Dichloroethene	µg/L	< 0.50		0.36	F	NC
	1,2-Dichloroethane	µg/L	0.95	J	1.2	J	23.3
	1,2-Dichloropropane	µg/L	0.27	F	0.43	F	45.7*
	Alkalinity, total	mg/L	135		140		3.6
	Calcium	µg/L	34,600	J	35,000	J	1.1
	Chloride	mg/L	8.9		8.9		0.0
	cis-1,2-Dichloroethene	µg/L	1.5	J	2.2	J	37.8
	Hardness as CaCO3	mg/L	136		132		3.0
	Magnesium	µg/L	17,300	J	17,300	J	0.0
	Nitrogen, nitrate	mg/L	2.1		2.1		0.0
	Sodium	µg/L	17,700	J	17,800	J	0.6
	Solids, total dissolved	mg/L	241		238		1.3
	Sulfate	mg/L	20.5		20.5		0.0
	Tetrachloroethene	µg/L	2.8		3.1		10.2
	TPH, gasoline-range	µg/L	9.0	F	11	F	20.0
	Trichloroethene	µg/L	21	M	24	M	13.3
	Zinc	µg/L	40.0	F	7.7	F	135.4*
7-PZ-37P	1,1-Dichloroethane	µg/L	0.26	F	0.22	F	16.7
	Barium	µg/L	78.8		81.7		3.6
	cis-1,2-Dichloroethene	µg/L	0.58		0.42	F	32.0*
	Copper	µg/L	1.8	F	1.8	F	0.0
	Manganese	µg/L	2,200		2,330		5.7
	Mercury	µg/L	< 0.20		0.060	F	NC
	Nickel	µg/L	9.3	F	9.8	F	5.2
	Tetrachloroethene	µg/L	2.2		1.9		14.6
	Thallium	µg/L	0.68	F	0.27	F	86.3*
	Trichloroethene	µg/L	2.7		2.3		16.0
	Vanadium	µg/L	6.3	F	6.5	F	3.1
7-PZ-37P (continued)	Zinc	µg/L	2.5	F	7.0	F	94.7*
ACW PTI-10/15/09	Alkalinity, total	mg/L	56.2		48.1		15.5
	Calcium	µg/L	10,200	J	10,300	J	1.0
	Chloride	mg/L	3.5		3.4		2.9
	Copper	µg/L	1.2	F	1.8	F	40.0*
	Hardness as CaCO3	mg/L	40.0	J	52.1	J	26.3
	Magnesium	µg/L	5,260	J	5,210	J	1.0
	Nitrogen, nitrate	mg/L	2.6		2.6		0.0
	Sodium	µg/L	10,300	J	10,500	J	1.9
	Solids, total dissolved	mg/L	116		120		3.4

TABLE H-2

FIELD DUPLICATE PRECISION STUDY
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
	Sulfate	mg/L	2.1		2.1		0.0
	Trichloroethene	µg/L	6.0		6.0		0.0
	Zinc	µg/L	13.1	F	13.5	F	3.0
MAFB-133	Alkalinity, total	mg/L	86.4		86.6		0.2
	Arsenic	µg/L	2.5	F	3.5	F	33.3*
	Barium	µg/L	18.6	F	18.9	F	1.6
	Chloride	mg/L	4.4		4.3		2.3
	Chloroform	µg/L	0.11	F	0.12	F	8.7
	Chromium	µg/L	2.3	F	2.8	F	19.6
	cis-1,2-Dichloroethene	µg/L	2.3		2.4		4.3
	Fluoride	mg/L	0.20		0.19		5.1
	Mercury	µg/L	0.11	BF	0.094	BF	15.7
	Nickel	µg/L	2.5	F	2.5	F	0.0
	Selenium	µg/L	4.1	BF	4.4	BF	7.1
	Solids, total dissolved	mg/L	161		162		0.6
	Sulfate	mg/L	10		9.9		1.0
	Tetrachloroethene	µg/L	4.3		4.1		4.8
	Thallium	µg/L	1.1		0.33	F	107.7*
	Trichloroethene	µg/L	0.89		0.96		7.6
	Vanadium	µg/L	7.8	F	7.9	F	1.3
	Zinc	µg/L	15.9	F	9.3	F	52.4*
MAFB-319	Chloroform	µg/L	0.35	F	< 0.50		NC
	Tetrachloroethene	µg/L	0.28	J	0.054	FJ	135.3*
	Toluene	µg/L	< 0.50		0.12	F	NC
	Vinyl chloride	µg/L	< 0.50		0.11	F	NC
MAFB-324	Chloroform	µg/L	0.11	F	0.28	F	87.2*
	Tetrachloroethene	µg/L	< 0.20	UJ	0.53	J	90.4
MAFB-378B	Chloroform	µg/L	0.36	BF	0.41	BFJ	13.0
MAFB-434Bd	1,1-Dichloroethene	µg/L	< 0.50		0.3	F	NC
	cis-1,2-Dichloroethene	µg/L	< 0.50	UJ	0.63	J	23.0
	Tetrachloroethene	µg/L	3.2	M	3.1	M	3.2
	Trichloroethene	µg/L	18		17		5.7
MAFB-439	Carbon tetrachloride	µg/L	14		13		7.4
	Chloroform	µg/L	0.96		0.85		12.2
	Tetrachloroethene	µg/L	77	M	84	M	8.7
	Trichloroethene	µg/L	0.24	F	0.32	F	28.6*
MAFB-446	1,1-Dichloroethane	µg/L	1.1		1.1		0.0
	1,1-Dichloroethene	µg/L	1.1		1.1		0.0
	1,2-Dichlorobenzene	µg/L	0.41	F	0.41	F	0.0
	1,2-Dichloroethane	µg/L	0.50		0.56		11.3
	cis-1,2-Dichloroethene	µg/L	1.8		1.8		0.0
	Tetrachloroethene	µg/L	9.3		9.7		4.2
	Trichloroethene	µg/L	57	M	56	M	1.8
	Trichlorofluoromethane	µg/L	0.45	F	0.46	F	2.2
MAFB-457Bs	cis-1,2-Dichloroethene	µg/L	0.47	F	0.54		13.9
	Tetrachloroethene	µg/L	1.9		1.9		0.0
	Trichloroethene	µg/L	10		10		0.0
MBS PTI-10/15/09	Alkalinity, total	mg/L	101		94.7		6.4

TABLE H-2

FIELD DUPLICATE PRECISION STUDY
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Well Number	Analyte	Units	Initial Result		Duplicate Result		RPD (%)
	Barium	µg/L	61.8		64.4		4.1
	Carbon tetrachloride	µg/L	1.3		1.4		7.4
	Chloride	mg/L	7.0		7.0		0.0
	Chloroform	µg/L	0.23	F	0.23	F	0.0
	Chromium	µg/L	4.7	F	4.9	F	4.2
	cis-1,2-Dichloroethene	µg/L	0.17	F	< 0.50		NC
	Hardness as CaCO3	mg/L	84.8		100		16.5
	Manganese	µg/L	5.2	F	< 15		NC
	Nickel	µg/L	0.52	F	< 40		NC
	Nitrogen, nitrate	mg/L	3.2		3.2		0.0
	Solids, total dissolved	mg/L	163		169		3.6
	Sulfate	mg/L	10.1		10.1		0.0
	Tetrachloroethene	µg/L	9.6		9.8		2.1
	Thallium	µg/L	0.14	F	0.56	F	120.0*
	TPH, gasoline-range	µg/L	< 50		9.6	F	NC
	Trichloroethene	µg/L	4.1		4.3		4.8
	Vanadium	µg/L	11.2	F	11.6	F	3.5
	Zinc	µg/L	9.4	F	12.8	F	30.6*
OFB-27	Bromodichloromethane	µg/L	0.19	F	0.15	F	23.5*
	Chloroform	µg/L	0.43	F	0.36	F	17.7
OFB-27	Dibromochloromethane	µg/L	0.36	F	0.19	F	61.8*
(continued)	Methylene chloride	µg/L	0.54	B	< 0.50		7.7

Notes:
In the instance that one result is given as "<" and the other result is given as being a trace value (F), the RPD has been indicated as NC (not calculable).

* As per AFCEE QAPP 4.0.01 validation guidelines, nonconformances with project control limits for trace value (F) data do not require validation flags.

Shaded data indicate nonconformances with project control limits.

B - Analyte detected in blank.
F - Result is below Reporting Limit.
J - Result is an estimate.
M - Matrix effect was present.
µg/L - Micrograms per liter
mg/L - Milligrams per liter
RE - Sample Reanalysis
RPD - Relative Percent Difference
UJ - Result is not detected, but is estimated.

TABLE H-3

COMPLETENESS CALCULATION
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
Mather Groundwater Monitoring Program			
USEPA Method 8260/524.2			
1,1,1,2-Tetrachloroethane	36	36	100%
1,1,1-Trichloroethane	123	123	100%
1,1,2,2-Tetrachloroethane	123	123	100%
1,1,2-Trichloroethane	123	123	100%
1,1-Dichloroethane	123	123	100%
1,1-Dichloroethene	150	150	100%
1,1-Dichloropropene	36	36	100%
1,2,3-Trichlorobenzene	36	36	100%
1,2,3-Trichloropropane	36	36	100%
1,2,4-Trichlorobenzene	36	36	100%
1,2,4-Trimethylbenzene	36	36	100%
1,2-Dibromo-3-chloropropane	36	36	100%
1,2-Dibromoethane	36	36	100%
1,2-Dichlorobenzene	123	123	100%
1,2-Dichloroethane	150	150	100%
1,2-Dichloropropane	150	150	100%
1,3,5-Trimethylbenzene	36	36	100%
1,3-Dichlorobenzene	123	123	100%
1,3-Dichloropropane	36	36	100%
1,4-Dichlorobenzene	150	150	100%
2,2-Dichloropropane	36	36	100%
2-Chlorotoluene	36	36	100%
4-Chlorotoluene	36	36	100%
Benzene	123	123	100%
Bromobenzene	36	36	100%
Bromochloromethane	36	36	100%
Bromodichloromethane	123	123	100%
Bromoform	123	123	100%
Bromomethane	123	123	100%
Carbon tetrachloride	150	150	100%
Chlorobenzene	123	123	100%
Chloroethane	123	123	100%
Chloroform	150	150	100%
Chloromethane	150	150	100%
cis-1,2-Dichloroethene	150	150	100%
cis-1,3-Dichloropropene	123	123	100%
Dibromochloromethane	123	123	100%
Dibromomethane	36	36	100%
Dichlorodifluoromethane	123	123	100%
Ethylbenzene	123	123	100%

TABLE H-3

COMPLETENESS CALCULATION
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
USEPA Method 8260/524.2 (continued)			
Hexachlorobutadiene	36	36	100%
Isopropylbenzene	36	36	100%
Methylene chloride	123	123	100%
n-Butylbenzene	36	36	100%
n-Propylbenzene	36	36	100%
Naphthalene	36	36	100%
p-Isopropyltoluene	36	36	100%
sec-Butylbenzene	36	36	100%
Styrene	36	36	100%
t-Butylbenzene	36	36	100%
Tetrachloroethene	150	150	100%
Toluene	123	123	100%
trans-1,2-Dichloroethene	123	123	100%
trans-1,3-Dichloropropene	123	123	100%
Trichloroethene	150	150	100%
Trichlorofluoromethane	123	123	100%
Vinyl chloride	150	150	100%
Xylenes, total	123	123	100%
USEPA Method 8015 Modified			
TPH as diesel	18	18	100%
TPH as gasoline	21	21	100%
USEPA Method 6010			
Antimony	16	16	100%
Arsenic	16	16	100%
Barium	16	16	100%
Beryllium	16	16	100%
Cadmium	16	16	100%
Calcium	13	13	100%
Chromium	19	19	100%
Cobalt	16	16	100%
Copper	29	29	100%
Iron	13	13	100%
Lead	17	17	100%
Magnesium	13	13	100%
Manganese	29	28	96.6%
Nickel	19	19	100%
Selenium	16	16	100%
Silver	16	16	100%
Sodium	13	13	100%
Vanadium	16	16	100%

TABLE H-3

COMPLETENESS CALCULATION
FOURTH QUARTER 2009 MATHER GROUNDWATER MONITORING
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Analyte	Groundwater Samples		
	Possible Results	Valid Results	Percent Complete
USEPA Method 6010 (continued)			
Zinc	29	29	100%
USEPA Method 6020			
Thallium	16	16	100%
USEPA Method 7470			
Mercury	16	16	100%
Standard Method 2320			
Alkalinity, total	25	25	100%
USEPA Method 130.2			
Hardness as CaCO3	16	16	100%
USEPA Method 160.1			
Total Filterable Residue	25	25	100%
USEPA 160.2			
Total Suspended Solids	3	3	100%
USEPA Method 300.0			
Chloride	25	25	100%
Nitrate	16	16	100%
Sulfate	32	32	100%
USEPA Method 314.0			
Perchlorate	4	4	100%
USEPA 340.2			
Fluoride	9	9	100%
USEPA 376.1			
Total sulfide	9	6	66.7%
USEPA 7196			
Hexavalent Chromium	6	6	100%
Overall Completeness	5835	5831	99.93%

Notes:
TPH - Total Petroleum Hydrocarbons
USEPA - United States Environmental Protection Agency

APPENDIX I

PERFORMANCE EVALUATION SAMPLE RESULTS

APPENDIX I
PERFORMANCE EVALUATION SAMPLE RESULTS

The groundwater sampling and analysis plans for Mather Air Force Base (Mather) require performance evaluation (PE) samples to be submitted to the contract laboratory at a minimum of once every six months. Due to a scheduling error, PE samples were not submitted during the second quarter 2009. Two sets of PE samples were submitted during the fourth quarter 2009, once in October at the beginning of the quarter and once in December. The purpose of the PE samples is to provide a quality control/quality assurance (QA/QC) verification of the contract laboratory instrumentation and methodology. If the PE sample results do not meet the established control limits, corrective actions should be taken.

Environmental Resource Associates (ERA) in Arvada, Colorado, prepared PE samples. The samples, prepared to mimic environmental samples, consisted of known concentrations of constituents for which groundwater samples are typically analyzed. Samples were prepared for the following constituents: volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH) as gasoline and as diesel, polychlorinated biphenyls (PCBs), pesticides, polynuclear aromatic hydrocarbons (PAHs), metals, and general chemistry. The samples were, in turn, submitted double-blind to the appropriate laboratory for analysis.

The 2009 PE sample results can be found in Tables I-1 and I-2. Constituents of concern, certified values, results observed by laboratory, percent recoveries, control limits, and vendor Performance Acceptance Limits (PALs) are provided. Control limits for these samples are equivalent to Data Quality Objectives as set forth in the Air Force Center for Engineering and the Environment *Quality Assurance Project Plan* (AFCEE, 2005) and the *Final Basewide Groundwater Monitoring SAP* (Montgomery Watson, 1997). Additionally, the tables indicate whether the analytical results provided by the laboratory met the control limits.

The vendor PALs are given as guidelines for acceptable analytical results. However, ERA establishes their certified values and PALs by submitting a statistically significant number of PE samples to various laboratories for analysis. There is little guidance established for laboratories analyzing these samples to ensure that results are truly comparable. For example, for petroleum hydrocarbon analyses, ERA does not instruct the laboratory to quantify TPH within a specified range, so each laboratory may quantify gasoline using a different carbon range. Additionally, the

source material that is used for the PE sample will not be from the same source as the calibration standard material used by the laboratory. Therefore, low-biased results for TPH PE samples do not necessarily reflect a low bias for TPH sample results reported by the laboratory.

1.0 PE SAMPLE RESULTS - FOURTH QUARTER 2009 (OCTOBER)

PE samples for Task Order 34, Fourth Quarter 2009, were submitted on 13 October 2009 to Agriculture & Priority Pollutants, Laboratory, Inc. (APPL), located in Fresno, California. Analytical results for these samples are presented in Table I-1. The analytical assessment and corrective actions associated with these sample results are discussed below.

1.1 Analytical Assessment

The recoveries of the VOCs 1,1,1-trichloroethane (125.6 percent), 1,2-dibromo3-chloropropane (75.5 percent), benzene (135.4 percent), carbon tetrachloride (126.1 percent), dibromochloromethane (127.5 percent), methylene chloride (187.7 percent), trans-1,2-dichloroethene (156.2 percent), tetrachloroethene (133.1 percent), toluene (122.9 percent), trichloroethene (144.6 percent), and vinyl chloride (123.3 percent) by EPA method 524.2; vinyl chloride (143.3 percent) by EPA method 8260; TPH as diesel (56.7 percent) by EPA method 8015 modified; copper (131.7 percent) by EPA method 6010; and the pesticides endosulfan I (45.4 percent) and endosulfan II (28.6 percent) by EPA method 8081) were outside the project control limits. In reviewing the data associated with the analyses, all quality control parameters (method blank, laboratory control sample, calibration curve, continuing calibration curve, etc.) met the criteria as described in the SAP.

1.2 Corrective Actions

Due to the nonconformance with the project control limits for the analytes discussed in the Analytical Assessment above, a letter was sent to APPL. They were asked to review the associated data, assess any problems that occurred during the analyses, and provide a corrective action response.

For all analyses, APPL was unable to determine the cause for the PE sample recoveries outside project control limits. All laboratory QA/QC were within project control limits.

For TPH as diesel by EPA method 8015 modified, the low bias may be attributed to the inherent differences in the way APPL quantifies TPH as diesel versus the way this compound is quantified by the vendor, ERA. The result for TPH as diesel, however, was within ERA PALs. No further action was taken

In reviewing historical PE results from 2008, all of the analytes discussed above were compliant with project control limits during 2008, indicating that the source of the nonconformances is not systemic.

2.0 PE SAMPLE RESULTS - FOURTH QUARTER 2009 (DECEMBER)

PE samples for Task Order 34, Fourth Quarter 2009, were submitted on 29 December 2009 to APPL. Analytical results for these samples are presented in Table I-2. The analytical assessment and corrective actions associated with these sample results are discussed below.

2.1 Analytical Assessment

The recoveries of the VOCs 1,3-dichlorobenzene (72.6 percent), 1,4-dichlorobenzene (67.8 percent), benzene (79.1 percent), carbon tetrachloride (41.5 percent), ethylbenzene (71.7 percent), tetrachloroethene (59.5 percent), toluene (74.0 percent), and total xylenes (75.5 percent) by EPA method 8260 and TPH as diesel (60.9 percent) by EPA method 8015 modified were outside the project control limits. In addition, all analytes for VOCs by EPA method 524.2 were below project control limits, with the exception of 1,1,2,2-tetrachloroethene and bromoform, as indicated in Table I-2. In reviewing the data associated with the analyses, all quality control parameters (method blank, laboratory control sample, calibration curve, continuing calibration curve, etc.) met the criteria as described in the SAP.

2.2 Corrective Actions

Due to the nonconformance with the project control limits for the analytes discussed in the Analytical Assessment above, a letter was sent to APPL. They were asked to review the associated data, assess any problems that occurred during the analyses, and provide a corrective action response.

For all analyses, APPL was unable to determine the cause for the PE sample recoveries outside project control limits. All laboratory QA/QC were within project control limits.

For VOCs by EPA method 8260, none of the analytes listed in Section 2.1 that had recoveries outside of project control limits for samples submitted in October 2009, indicating that the source of the nonconformances is not systemic. In addition, APPL noted that a check sample from another source was analyzed by the laboratory in the same analytical batch as the PE sample, and all recoveries for that sample were within project control limits. No further action was taken.

For TPH as diesel by EPA method 8015 modified, the low bias may be attributed to the inherent differences in the way APPL quantifies TPH as diesel versus the way this compound is quantified by the vendor, ERA. APPL noted that in checking the patterns from the gas chromatogram, there were more peaks in APPLs diesel standard than the PE sample, thus leading to the low recovery. The result for TPH as diesel, however, was within ERA PALs. No further action was taken.

For VOCs by EPA method 524.2, all recoveries were either below project control limits, or just above the lower project control limit (recoveries ranged from 60.3 percent to 84.7 percent), indicating a systemic problem with either analysis of the sample or production of the PE sample. As noted by the laboratory, the PE sample was analyzed by EPA method 524.2 on the “Max” GC/MS instrument, as well as by EPA method 8260 on the “Max” and “Sweetpea” instruments. Recoveries from both EPA method 8260 analyses were similar to those from the EPA method 524.2 analysis, indicating that the low recoveries were probably due to improper manufacturing, rather than sample analysis. No further action was taken.

Letters from the laboratory discussing the PE sample results and their internal findings have been attached in Appendix I.

3.0 REFERENCES

Air Force Center for Environmental Excellence (AFCEE) Headquarters, 2005. Quality Assurance Project Plan, Version 4.0.01. Air Force Center for Environmental Excellence, Brooks Air Force Base, Texas. May 2005.

Montgomery Watson, 1997. Final Basewide Groundwater Monitoring Sampling and Analysis Plan, Former Mather Air Force Base, California. Prepared for AFCEE. August 1997.

TABLES

TABLE I-1

PE SAMPLE RESULTS
TASK ORDER 34 - OCTOBER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENT COUNTY, CALIFORNIA

(Page 1 of 3)

Analytes	Lab Identification	APPL Results (µg/L)	Certified Values (µg/L)	Recovery (%)	Control Limits (%)	Acceptability (pass/fail)	Vendor PT Performance Acceptance Limits	Vendor PT Performance Acceptability (pass/fail)
VOCs (EPA 524.2)	**AY05757**							
1,1,1-Trichloroethane		5.1	4.06	125.6	80 - 120	fail	2.90 - 4.95	fail
1,1,2,2-Tetrachloroethane		2.4	2.39	100.4	80 - 120	pass	1.75 - 3.16	pass
1,1,2-Trichloroethane		3.2	3.09	103.6	80 - 120	pass	2.43 - 3.80	pass
1,2,3-Trichloropropane		7.5	8.20	91.5	80 - 120	pass	5.06 - 11.2	pass
1,2-Dibromo-3-chloropropane		5.7	7.55	75.5	80 - 120	fail	4.93 - 9.82	pass
1,2-Dichlorobenzene		5.4	5.65	95.6	80 - 120	pass	4.33 - 6.89	pass
1,2-Dichloroethane		9.0	7.59	118.6	80 - 120	pass	5.92 - 9.49	pass
1,2-Dichloropropane		4.7	4.72	99.6	80 - 120	pass	3.61 - 5.76	pass
1,3-Dichlorobenzene		1.7	1.72	98.8	80 - 120	pass	1.27 - 2.06	pass
1,4-Dichlorobenzene		6.8	7.10	95.8	80 - 120	pass	5.37 - 8.66	pass
Benzene		5.7	4.21	135.4	80 - 120	fail	3.23 - 5.05	fail
Bromodichloromethane		8.5	8.31	102.3	80 - 120	pass	6.58 - 10.6	pass
Bromoform		4.7	4.43	106.1	80 - 120	pass	3.22 - 5.72	pass
cis-1,2-Dichloroethene		5.0	4.42	113.1	80 - 120	pass	3.43 - 5.44	pass
cis-1,3-Dichloropropene		3.7	3.94	93.9	80 - 120	pass	2.89 - 4.85	pass
Carbon Tetrachloride		6.0	4.76	126.1	80 - 120	fail	3.08 - 5.95	fail
Chlorobenzene		11	9.54	115.3	80 - 120	pass	7.48 - 11.4	pass
Chloroform		9.6	8.36	114.8	80 - 120	pass	6.43 - 10.4	pass
Chloromethane		2.6	2.50	104.0	80 - 120	pass	1.21 - 3.80	pass
Dibromochloromethane		13	10.20	127.5	80 - 120	fail	7.82 - 12.6	fail
Ethylbenzene		8.6	7.68	112.0	80 - 120	pass	5.71 - 9.37	pass
Hexachlorobutadiene		4.6	5.26	87.5	80 - 120	pass	1.34 - 7.26	pass
Methylene Chloride		14	7.46	187.7	80 - 120	fail	5.21 - 9.47	fail
Styrene		2.9	2.79	103.9	80 - 120	pass	2.17 - 3.43	pass
trans-1,2-Dichloroethene		11	7.04	156.3	80 - 120	fail	5.11 - 8.87	fail
trans-1,3-Dichloropropene		6.2	7.58	81.8	80 - 120	pass	5.68 - 9.63	pass
Tetrachloroethene		6.6	4.96	133.1	80 - 120	fail	3.23 - 5.95	fail
Toluene		4.3	3.50	122.9	80 - 120	fail	2.68 - 4.20	fail
Trichloroethene		13	8.99	144.6	80 - 120	fail	6.49 - 10.9	fail
Vinyl chloride		3.7	3.00	123.3	80 - 120	fail	1.61 - 4.62	pass
Xylenes		15	13.3	112.8	80 - 120	pass	9.44 - 16.5	pass
VOCs (SW8260)	**AY05759**							
1,1,1-Trichloroethane		47	40.6	115.8	67 - 132	pass	25.4 - 53.8	pass
1,1,2,2-Tetrachloroethane		26	23.9	108.8	63 - 128	pass	12.4 - 37.4	pass
1,1,2-Trichloroethane		35	30.9	113.3	75 - 125	pass	21.6 - 41.0	pass
1,2-Dichlorobenzene		57	56.5	100.9	71 - 122	pass	39.1 - 73.4	pass
1,2-Dichloroethane		89	75.9	117.3	69 - 132	pass	52.7 - 99.5	pass
1,2-Dichloropropane		49	47.2	103.8	75 - 125	pass	30.7 - 62.6	pass
1,3-Dichlorobenzene		17	17.2	98.8	75 - 124	pass	10.9 - 22.5	pass
1,4-Dichlorobenzene		67	71.0	94.4	74 - 123	pass	48.1 - 88.9	pass
Benzene		46	42.1	109.3	81 - 122	pass	30.0 - 53.9	pass
Bromodichloromethane		96	83.1	115.5	76 - 121	pass	59.0 - 112	pass
Bromoform		52	44.3	117.4	69 - 128	pass	28.0 - 60.8	pass
Carbon Tetrachloride		57	47.6	119.7	66 - 138	pass	26.2 - 65.1	pass
Chlorobenzene		97	95.4	101.7	81 - 122	pass	68.8 - 119	pass
Chloroform		95	83.6	113.6	69 - 128	pass	57.9 - 107	pass
Chloromethane		25	25.0	100.0	56 - 131	pass	10.0 - 40.0	pass
cis-1,2-Dichloroethane		44	44.2	99.5	72 - 126	pass	31.6 - 58.8	pass
cis-1,3-Dichloropropene		41	39.4	104.1	69 - 131	pass	27.6 - 51.2	pass
Dibromochloromethane		120	102	117.6	66 - 133	pass	70.0 - 136	pass
Ethylbenzene		77	76.8	100.3	73 - 127	pass	53.0 - 97.3	pass
Methylene Chloride		100	74.6	134.0	63 - 137	pass	45.7 - 104	pass
Tetrachloroethene		47	49.6	94.8	66 - 128	pass	27.5 - 64.9	pass
Toluene		39	35.0	111.4	77 - 122	pass	24.3 - 44.2	pass
trans-1,2-Dichloroethene		82	70.4	116.5	59 - 135	pass	43.5 - 97.0	pass

TABLE I-1

PE SAMPLE RESULTS
TASK ORDER 34 - OCTOBER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENT COUNTY, CALIFORNIA

(Page 2 of 3)

Analytes	Lab Identification	APPL Results (µg/L)	Certified Values (µg/L)	Recovery (%)	Control Limits (%)	Acceptability (pass/fail)	Vendor PT Performance Acceptance Limits	Vendor PT Performance Acceptability (pass/fail)
trans-1,3-Dichloropropene		80	75.8	105.5	59 - 135	pass	49.1 - 103	pass
VOCs (SW8260) - cont.	**AY05759**							
Trichloroethene		98	89.9	109.0	70 - 127	pass	57.2 - 117	pass
Vinyl chloride		43	30.0	143.3	50 - 134	fail	12.0 - 48.0	pass
Xylenes, total		130	133	97.7	76 - 128	pass	76.1 - 179	pass
TPH Gas (SW8015M)	**AY05760**							
Gasoline		330	394	83.8	67 - 136	pass	165 - 720	pass
TPH Diesel (SW8015M)	**AY05761**							
Diesel Fuel		1,100	1,940	56.7	61 - 143	fail	432 - 2540	pass
METALS	**AY05762**							
Antimony		214	208	102.9	80 - 120	pass	138 - 254	pass
Arsenic		707	723	97.8	80 - 120	pass	608 - 846	pass
Barium		158	145	109.0	80 - 120	pass	125 - 163	pass
Beryllium		443	466	95.1	80 - 120	pass	396 - 526	pass
Cadmium		627	613	102.3	80 - 120	pass	523 - 696	pass
Chromium		1020	947	107.7	80 - 120	pass	826 - 1070	pass
Cobalt		864	787	109.8	80 - 120	pass	692 - 882	pass
Copper		345	262	131.7	80 - 120	fail	236 - 290	fail
Lead		634	594	106.7	80 - 120	pass	518 - 668	pass
Manganese		1,080	1,100	98.2	80 - 120	pass	988 - 1220	pass
Nickel		406	371	109.4	80 - 120	pass	331 - 417	pass
Selenium		1080	1,150	93.9	80 - 120	pass	915 - 1330	pass
Silver		160	156	102.6	80 - 120	pass	133 - 179	pass
Thallium		702	711	98.7	78 - 123	pass	583 - 846	pass
Vanadium		1,050	961	109.3	80 - 120	pass	842 - 1070	pass
Zinc		623	619	100.6	80 - 120	pass	531 - 713	pass
MINERALS (Units in mg/L)	**AY05763**							
Total Filterable Residue		344	345	99.7	80 - 120	pass	261 - 429	pass
Total Alkalinity		100	102	98.0	80 - 120	pass	90.6 - 112	pass
Chloride		37.1	37.3	99.5	85 - 115	pass	31.4 - 44.0	pass
Fluoride		2.3	2.3	100.0	86 - 114	pass	1.89 - 2.72	pass
Sulfate		36.4	36.9	98.6	85 - 115	pass	29.8 - 43.0	pass
PCBs (SW8082)	**AY05764**							
PCB-1260		1.5	2.80	53.6	45 - 145	pass	1.37 - 3.70	pass
Pestidcides (SW8081)	**AY05765**							
4,4-DDD		5.2	8.11	64.1	50 - 139	pass	2.97 - 11.5	pass
4,4-DDE		5.8	8.48	68.4	48 - 137	pass	3.78 - 10.9	pass
4,4-DDT		5.5	7.36	74.7	47 - 138	pass	2.75 - 10.4	pass
alpha-BHC		6.7	8.85	75.7	60 - 128	pass	3.92 - 12.0	pass
alpha-Chlordane		5.5	7.80	70.5	63 - 123	pass	3.51 - 10.5	pass
Aldrin		6.8	10.6	64.2	42 - 138	pass	2.97 - 14.6	pass
beta-BHC		7.6	9.65	78.8	66 - 126	pass	4.02 - 13.0	pass
delta-BHC		4.3	5.70	75.4	46 - 136	pass	2.06 - 7.97	pass
Dieldrin		1.4	1.88	74.5	62 - 129	pass	0.87 - 2.63	pass
Endosulfan I		4.3	9.47	45.4	49 - 120	fail	2.73 - 13.7	pass
Endosulfan II		2.5	8.73	28.6	42 - 130	fail	2.80 - 11.7	fail
Endosulfan Sulfate		13	16.5	78.8	54 - 137	pass	6.27 - 24.1	pass
Endrin		6.9	8.82	78.2	56 - 134	pass	3.14 - 13.1	pass
Endrin Aldehyde		15	19.3	77.7	56 - 137	pass	6.04 - 28.3	pass
gamme-BHC (Lindane)		4.7	5.95	79.0	30 - 146	pass	2.42 - 8.24	pass
gamma-Chlordane		2.4	3.30	72.7	67 - 120	pass	1.39 - 4.57	pass

TABLE I-1

PE SAMPLE RESULTS
TASK ORDER 34 - OCTOBER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENT COUNTY, CALIFORNIA

(Page 3 of 3)

Analytes	Lab Identification	APPL Results (µg/L)	Certified Values (µg/L)	Recovery (%)	Control Limits (%)	Acceptability (pass/fail)	Vendor PT Performance Acceptance Limits	Vendor PT Performance Acceptability (pass/fail)
Heptachlor Epoxide		7.2	9.62	74.8	62 - 131	pass	4.82 - 13.4	pass
Methoxychlor		5.4	6.7	80.4	56 - 150	pass	1.74 - 10.7	pass
Hex Chrome	**AY05766**							
Hexavalent chromium		5.7	6.38	89.3	86 - 117	pass	5.59 - 7.11	pass
PAHs (SW8270)	**AY05767**							
2-Methylnaphthalene		97	128.0	75.8	46 - 120	pass	26.0 - 145	pass
Acenaphthylene		15	19.6	76.5	50 - 120	pass	6.89 - 25.8	pass
Anthracene		22	27.4	80.3	54 - 120	pass	12.1 - 36.0	pass
Benzo(a)pyrene		16	24.2	66.1	53 - 120	pass	7.64 - 33.3	pass
Benzo(b)fluoranthene		40	47.8	83.7	45 - 124	pass	17.1 - 65.2	pass
Benzo(g,h,i)perylene		32	35.7	89.6	38 - 123	pass	9.98 - 51.4	pass
Benzo(k)fluoranthene		62	72.4	85.6	45 - 124	pass	17.7 - 105	pass
Chrysene		10	11.8	84.7	55 - 120	pass	5.90 - 19.0	pass
Dibenz(a,h)anthracene		43	46.3	92.9	42 - 127	pass	12.6 - 66.3	pass
Fluoranthene		170	188.0	90.4	54 - 120	pass	81.6 - 221	pass
Fluorene		31	38.4	80.7	50 - 120	pass	14.4 - 50.2	pass
Ideno(1,2,3-cd)pyrene		37	35.3	104.8	43 - 125	pass	6.16 - 50.1	pass
Phenanthrene		110	128.0	85.9	51 - 120	pass	58.5 - 153	pass
Pyrene		66	81.0	81.5	49 - 128	pass	26.8 - 111	pass
MERCURY	**AY05768**							
Mercury		23.2	24.8	93.5	85 - 115	pass	15.2 - 33.4	pass

Notes

Shaded data indicate nonconformances with project control limits.

µg/L - micrograms per liter
EPA - Environmental Protection Agency
mg/L - milligrams per liter
PT - Proficiency Testing
TPH - Total Petroleum Hydrocarbons
VOC - Volatile Organic Compound

TABLE I-2

PE SAMPLE RESULTS
TASK ORDER 34 - DECEMBER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 1 of 3)

Analytes	Lab Identification	APPL Results (µg/L)	Certified Values (µg/L)	Recovery (%)	Control Limits (%)	Acceptability (pass/fail)	Vendor PT Performance Acceptance Limits	Vendor PT Performance Acceptability (pass/fail)
VOCs (SW8260)	**AY09443**							
1,1,1-Trichloroethane		23	33.8	68.0	67 - 132	pass	21.2 - 45.0	pass
1,1-Dichloroethene		18	24.8	72.6	68 - 130	pass	13.1 - 36.3	pass
1,2-Dichlorobenzene		40	48.4	82.6	71 - 122	pass	33.4 - 63.0	pass
1,2-Dichloroethane		37	39.5	93.7	69 - 132	pass	27.4 - 52.4	pass
1,3-Dichlorobenzene		27	37.2	72.6	75 - 124	fail	24.8 - 47.7	pass
1,4-Dichlorobenzene		44	64.9	67.8	74 - 123	fail	43.9 - 81.4	pass
Benzene		14	17.7	79.1	81 - 122	fail	11.9 - 23.5	pass
Bromodichloromethane		25	27.2	91.9	76 - 121	pass	18.9 - 36.6	pass
Bromoform		34	34.7	98.0	69 - 128	pass	21.6 - 47.4	pass
Carbon Tetrachloride		11	26.5	41.5	66 - 138	fail	14.9 - 36.5	fail
Chlorobenzene		23	28.2	81.6	81 - 122	pass	20.3 - 35.7	pass
Chloroform		18	19.8	90.9	69 - 128	pass	13.6 - 26.6	pass
cis-1,2-Dichloroethane		14	16.9	82.8	72 - 126	pass	11.0 - 22.7	pass
Dibromochloromethane		35	38.2	91.6	66 - 133	pass	26.0 - 50.6	pass
Ethylbenzene		44	61.4	71.7	73 - 127	fail	42.3 - 78.0	pass
Methylene Chloride		21	21.6	97.2	63 - 137	pass	13.0 - 31.3	pass
Tetrachloroethene		25	42.0	59.5	66 - 128	fail	23.0 - 55.0	pass
Toluene		25	33.8	74.0	77 - 122	fail	23.5 - 42.8	pass
trans-1,2-Dichloroethene		32	44.2	72.4	59 - 135	pass	26.2 - 62.3	pass
Trichloroethene		28	39.7	70.5	70 - 127	pass	25.2 - 52.3	pass
Xylenes, total		74	98.0	75.5	76 - 128	fail	55.8 - 133	pass
VOCs (EPA 524.2)	**AY09444**							
1,1,1,2-Tetrachloroethane		40	54.1	73.9	80 - 120	fail	35.0 - 72.8	pass
1,1,1-Trichloroethane		44	65.3	67.4	80 - 120	fail	40.7 - 85.8	pass
1,1,2,2-Tetrachloroethane		58	70.3	82.5	80 - 120	pass	40.8 - 103	pass
1,1-Dichloroethene		12	19.8	60.6	80 - 120	fail	10.6 - 29.0	pass
1,2,3-Trichloropropane		6.4	9.49	67.4	80 - 120	fail	4.07 - 14.8	pass
1,2-Dibromoethane		6.8	8.59	79.2	80 - 120	fail	5.86 - 11.7	pass
1,2-Dichlorobenzene		47	66.7	70.5	80 - 120	fail	46.3 - 86.6	pass
1,2-Dichloroethane		44	59.3	74.2	80 - 120	fail	41.2 - 78.0	pass
1,3-Dichlorobenzene		22	32.9	66.9	80 - 120	fail	21.8 - 42.3	pass
1,4-Dichlorobenzene		18	27.9	64.5	80 - 120	fail	18.5 - 36.0	fail
Benzene		35	53.1	65.9	80 - 120	fail	38.2 - 67.6	fail
Bromodichloromethane		28	38.3	73.1	80 - 120	fail	26.8 - 51.6	pass
Bromoform		21	24.8	84.7	80 - 120	pass	14.9 - 33.7	pass
cis-1,2-Dichloroethene		28	46.4	60.3	80 - 120	fail	33.2 - 61.7	fail
Carbon Tetrachloride		21	31.0	67.7	80 - 120	fail	17.3 - 42.6	pass
Chlorobenzene		14	21.2	66.0	80 - 120	fail	15.2 - 27.0	fail
Chloroform		34	46.7	72.8	80 - 120	fail	32.3 - 60.5	pass
Chloromethane		16	24.0	66.7	80 - 120	fail	9.60 - 38.4	pass
Dibromochloromethane		48	64.0	75.0	80 - 120	fail	43.8 - 85.0	pass
Ethylbenzene		21	32.9	63.8	80 - 120	fail	22.4 - 42.3	fail
Hexachlorobutadiene		36	57.5	62.6	80 - 120	fail	5.75 - 72.4	pass
Methylene Chloride		29	43.5	66.7	80 - 120	fail	26.5 - 61.2	pass
Naphthalene		30	41.1	73.0	80 - 120	fail	13.0 - 52.1	pass
Styrene		48	60.4	79.5	80 - 120	fail	38.8 - 82.5	pass
trans-1,2-Dichloroethene		38	56.6	67.1	80 - 120	fail	34.4 - 78.7	pass
Tetrachloroethene		14	23.9	58.6	80 - 120	fail	12.4 - 31.6	pass
Toluene		39	59.4	65.7	80 - 120	fail	41.2 - 74.4	fail
Trichloroethene		31	47.2	65.7	80 - 120	fail	29.9 - 61.9	pass
Trichlorofluoromethane		20	26.9	74.3	80 - 120	fail	10.8 - 43.0	pass
Xylenes		130	197	66.0	80 - 120	fail	133 - 263	fail
TPH Gas (SW8015M)	**AY09445**							
Gasoline		340	394	86.3	67 - 136	pass	165 - 720	pass

TABLE I-2

PE SAMPLE RESULTS
TASK ORDER 34 - DECEMBER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 2 of 3)

Analytes	Lab Identification	APPL Results (µg/L)	Certified Values (µg/L)	Recovery (%)	Control Limits (%)	Acceptability (pass/fail)	Vendor PT Performance Acceptance Limits	Vendor PT Performance Acceptability (pass/fail)
TPH Diesel (SW8015M)	**AY09446**							
Diesel Fuel		2,100	3,450	60.9	61 - 143	fail	850 - 4450	pass
METALS	**AY09447**							
Antimony		158	156	101	80 - 120	pass	99.8 - 192	pass
Arsenic		468	454	103	80 - 120	pass	380 - 532	pass
Barium		203	192	106	80 - 120	pass	166 - 216	pass
Beryllium		422	404	104	80 - 120	pass	343 - 456	pass
Cadmium		449	420	107	80 - 120	pass	358 - 477	pass
Chromium		166	145	114	80 - 120	pass	124 - 166	pass
Cobalt		1,000	879	114	80 - 120	pass	773 - 984	fail
Copper		538	513	105	80 - 120	pass	462 - 564	pass
Lead		1,270	1,180	108	80 - 120	pass	1040 - 1320	pass
Manganese		362	320	113	80 - 120	pass	286 - 355	fail
Nickel		2,010	1,740	116	80 - 120	pass	1570 - 1940	fail
Selenium		1,630	1,690	96.4	80 - 120	pass	1350 - 1950	pass
Silver		573	566	101	80 - 120	pass	486 - 648	pass
Thallium		624	682	91.5	78 - 123	pass	558 - 812	pass
Vanadium		1,820	1,670	109	80 - 120	pass	1460 - 1860	pass
Zinc		335	324	103	80 - 120	pass	277 - 376	pass
MINERALS (Units in mg/L)	**AY09448**							
Total Filterable Residue		262	245	107	80 - 120	pass	181 - 308	pass
Total Alkalinity		41.3	35.0	118	80 - 120	pass	29.6 - 41.4	pass
Chloride		94.4	94.1	100	85 - 115	pass	80.8 - 107	pass
Fluoride		3.0	2.89	104	86 - 114	pass	2.41 - 3.38	pass
Sulfate		8.7	9.46	92.0	85 - 115	pass	6.64 - 12.1	pass
PCBs (SW8082)	**AY09449**							
PCB-1260		2.5	4.4	56.8	45 - 145	pass	2.37 - 5.74	pass
Pestidcides (SW8081)	**AY09450**							
4,4-DDD		4.7	6.63	70.9	50 - 139	pass	2.45 - 9.46	pass
4,4-DDE		3.9	6.36	61.3	48 - 137	pass	2.82 - 8.24	pass
4,4-DDT		2.2	3.48	63.2	47 - 138	pass	1.30 - 5.03	pass
alpha-BHC		11	12.2	90.2	60 - 128	pass	5.54 - 16.4	pass
alpha-Chlordane		1.1	1.51	72.8	63 - 123	pass	0.666 - 2.19	pass
Aldrin		6.3	9.18	68.6	42 - 138	pass	2.58 - 12.6	pass
beta-BHC		10	12.4	80.6	66 - 126	pass	5.19 - 16.7	pass
delta-BHC		6.0	7.25	82.8	46 - 136	pass	2.68 - 10.1	pass
Dieldrin		3.4	4.48	75.9	62 - 129	pass	2.17 - 6.14	pass
Endosulfan I		11	14.7	74.8	49 - 120	pass	4.54 - 21.6	pass
Endosulfan II		15	19.6	76.5	42 - 130	pass	5.86 - 25.7	pass
Endosulfan Sulfate		13	14.6	89.0	54 - 137	pass	5.54 - 21.3	pass
Endrin		3.4	4.83	70.4	56 - 134	pass	1.80 - 7.28	pass
Endrin Aldehyde		13	14.8	87.8	56 - 137	pass	4.54 - 21.9	pass
gamme-BHC (Lindane)		5.4	6.56	82.3	30 - 146	pass	2.67 - 9.06	pass
gamma-Chlordane		3.7	4.64	79.7	67 - 120	pass	1.93 - 6.35	pass
Heptachlor		2.7	3.77	71.6	51 - 128	pass	1.22 - 5.20	pass
Heptachlor Epoxide		3.4	4.44	76.6	62 - 131	pass	2.18 - 6.24	pass
Methoxychlor		11	13.9	79.1	56 - 150	pass	3.78 - 21.8	pass
Hex Chrome								
Hexavalent chromium		1.3	1.38	94.2	86 - 117	pass	1.21 - 1.54	pass

TABLE I-2

PE SAMPLE RESULTS
TASK ORDER 34 - DECEMBER 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

(Page 3 of 3)

Analytes	Lab Identification	APPL Results (µg/L)	Certified Values (µg/L)	Recovery (%)	Control Limits (%)	Acceptability (pass/fail)	Vendor PT Performance Acceptance Limits	Vendor PT Performance Acceptability (pass/fail)
PAHs (SW8270)	**AY09452**							
Acenaphthene		8.0	12.4	64.5	47 - 120	pass	6.59 - 17.2	pass
Acenaphthylene		19	25.2	75.4	50 - 120	pass	9.18 - 32.5	pass
Anthracene		13	20.6	63.1	54 - 120	pass	9.29 - 27.7	pass
Benzo(a)anthracene		15	24.4	61.5	56 - 120	pass	10.6 - 31.7	pass
Benzo(a)pyrene		36	63.3	56.9	53 - 120	pass	19.0 - 81.0	pass
Dibenz(a,h)anthracene		20	29.1	68.7	42 - 127	pass	7.59 - 43.1	pass
Fluoranthene		94	134	70.1	54 - 120	pass	58.7 - 159	pass
Fluorene		78	111	70.3	50 - 120	pass	48.4 - 131	pass
Ideno(1,2,3-cd)pyrene		21	33.4	62.9	43 - 125	pass	5.50 - 47.8	pass
Phenanthrene		23	32.4	71.0	51 - 120	pass	16.6 - 42.4	pass
Pyrene		37	56.1	66.0	49 - 128	pass	18.4 - 78.9	pass
MERCURY	**AY09453**							
Mercury		6.0	5.21	115	85 - 115	pass	3.22 - 7.16	pass

Notes

Shaded data indicate nonconformances with project control limits.

µg/L - micrograms per liter
EPA - Environmental Protection Agency
mg/L - milligrams per liter
PT - Proficiency Testing
TPH - Total Petroleum Hydrocarbons
VOC - Volatile Organic Compound

APPLIED LABS
908 North Temperance Ave. ▼ Clovis, CA 93611 ▼ Phone 559.275-2175 ▼ Fax 559.275-4422
www.applinc.com

February 1, 2010

Mark Frey
MWH
3321 Power Inn Road
Suite 300
Sacramento, CA 95826

Subject: Mather Air Force Base, TO34, Fourth quarter 2009, 1st & 2nd sets

Dear Mr. Frey:

First Set:

TPH Diesel
Method 8015B
AY05761

Diesel fuel (56.7%) failed below the acceptance limit (61-143%). It recovered within the vendor acceptance limit. The sample was double-checked for pattern recognition and it was noted that there are more peaks in our diesel pattern for our standard, which explains the low recovery for the sample.

Metals
Method 6010B
AY05762

Copper (131.7%) failed above the acceptance limit (80-120%). The sample was analyzed on 10/15/09. The sample was analyzed at the very beginning of the analytical sequence to minimize carry over. The method blank was non-detect. The lab control spike recovered at 103%. The continuing calibrations and Initial calibration verification recovered within 5% of the spiked value. We participated in another PT study in October, which recovered at 90.7%. Based on acceptable QC, there are no procedural changes that can be made at this time.

Pesticides
Method 8081A
AY05765

Endosulfan I (45.4%) failed below the acceptance limit (49-120%). It recovered within the vendor acceptance limits.
Endosulfan II (28.6%) failed below the acceptance limit (42-130%).

The sample was recalculated and retention times were double-checked. The lab control spikes recovered at 72% and 73%. Continuing calibration recovered at 15%RPD and 15.5%RPD. We participated in a WP study in August 2009 and received an acceptable result for both analytes at 81.3% and 80% respectively. Based on acceptable QC, there are no procedural changes that can be made at this time.

Second Set:

TPH Diesel
Method 8015B
AY09446

Diesel Fuel (60.9%) failed below the acceptance limit (61-143%). It recovered within the vendor acceptance limit. It was within the vendor acceptance limit. The sample was double-checked for pattern recognition and it was noted that there are more peaks in our diesel pattern for our standard, which explains the low recovery for the sample.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

Sincerely,

Frances Lediaev, Quality Assurance Director
APPL, Inc.

FL/fl
cc: File

APPL LABS
908 North Temperance Ave. ▼ Clovis, CA 93611 ▼ Phone 559.275-2175 ▼ Fax 559.275-4422
www.applinc.com

February 1, 2010

Mark Frey
MWH
3321 Power Inn Road
Suite 300
Sacramento, CA 95826

Subject: Mather Air Force Base, TO34, Fourth quarter 2009, 1st & 2nd sets

Dear Mr. Frey:

First Set:

VOCs
Method 8260B
AY05759

Vinyl Chloride (143.3%) failed above the acceptance limit (50-134%). It recovered within the vendor acceptance limits.

We were unable to determine the cause of the failure. All method QC was checked for accuracy and was acceptable.

VOCs
Method 524.2
AY05757

1,1,1-Trichloroethane (125.6%) failed above the acceptance limit (80-120%).
1,2-dibromo-3-chloropropane (75.5%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limits.
Benzene (135.4%) failed above the acceptance limit (80-120%).
Chlorobenzene (126.1%) failed above the acceptance limit (80-120%).
Dibromochloromethane (127.5%) failed above the acceptance limit (80-120%).
Methylene chloride (187.7%) failed above the acceptance limit (80-120%).
Trans-1,2-Dichloropropane (156.3%) failed above the acceptance limit (80-120%).
Tetrachloroethene (133.1%) failed above the acceptance limit (80-120%).
Toluene (122.9%) failed above the acceptance limit (80-120%).
Trichloroethene (144.6%) failed above the acceptance limit (80-120%).
Vinyl chloride (123.3%) failed above the acceptance limit (80-120%). It recovered within the vendor acceptance limits

We were unable to determine the cause of the failures. All method QC was checked for accuracy and was acceptable.

Second Set:

VOCs
Method 8260B
AY09443

1,3-Dichlorobenzene (72.6%) failed below the acceptance limit (75-124%). It recovered within the vendor acceptance limit.
1,4-Dichlorobenzene (67.8%) failed below the acceptance limit (74-123%). It recovered within the vendor acceptance limit.
Benzene (79.1%) failed below the acceptance limit (81-122%). It recovered within the vendor acceptance limit.
Carbon Tetrachloride (41.5%) failed below the acceptance limit (66-138%).
Ethylbenzene (71.7%) failed below the acceptance limit (73-127%). It recovered within the vendor acceptance limit.
Tetrachloroethene (59.5%) failed below the acceptance limit (66-128%). It recovered within the vendor acceptance limit.
Toluene (74.0%) failed below the acceptance limit (77-122%). It recovered within the vendor acceptance limit.
Xylenes, total (75.5%) failed below the acceptance limit (76-128%). It recovered within the vendor acceptance limit.

A check sample, AX99837, with known concentrations, was injected on two instruments, Chico and Sweetpea by method 8260B prior to running sample AY09443. All analytes recovered between 80-120%. (Table 1) Sample AY09443 was then analyzed on Chico by method 8260B. It is unclear, at this time, why the recoveries were low. All method QC was checked for accuracy and was acceptable.

Table 1

Analyte	Instrument Chico AX99837 8260B	Instrument Sweetpea AX99837 8260B	True Value	Instrument Chico AY09443 8260B	True Value
1,3-Dichlorobenzene	85.3 (96.8%)	88.2 (100.1%)	88.1	27.1 (72.8%)	37.2
1,4-Dichlorobenzene	91.0 (94.7%)	97.3 (101.2%)	96.1	44.3 (68.3%)	64.9
Benzene	118.9 (106%)	105.4 (94.1%)	112	13.8 (78.0%)	17.7
Carbon tetrachloride	66.2 (87.1%)	77.5 (102%)	76.0	10.7 (40.4%)	26.5
Ethylbenzene	83.7 (99.5%)	84.1 (105%)	80.1	44.1 (71.8%)	61.4
Tetrachloroethene	33.1 (110%)	31.0 (103.3%)	30.0	24.6 (58.6%	42.0
Toluene	92.2 (104.7%)	87.4 (99.3%)	88.0	24.6 (72.8%)	33.8
Xylenes, total	159.7 (106.5%)	159.1 (106%)	150	73.7 (75.2%)	98.0

VOCs
Method 524.2
AY09444

1,1,1,2-Tetrachloroethane (73.9%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
1,1,1-Trichloroethane (67.4%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
1,1-Dichloroethene (60.6%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
1,2,3-Trichloropropane (67.4%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
1,2-Dibromoethane (79.2%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.

1,2-Dichlorobenzene (70.5%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
1,2-Dichloroethane (74.2%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
1,3-Dichlorobenzene (66.9%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
1,4-Dichlorobenzene (64.5%) failed below the acceptance limit (80-120%).
Benzene (65.9%) failed below the acceptance limit (80-120%).
Bromodichloromethane (73.1%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Cis-1, 2-Dichloroethene (60.3%) failed below the acceptance limit (80-120%).
Carbon Tetrachloride (67.7%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Chlorobenzene (66.0%) failed below the acceptance limit (80-120%).
Chloroform (72.8%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Chloromethane (66.7%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Dibromochloromethane (75.0%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Ethylbenzene (63.8%) failed below the acceptance limit (80-120%).
Hexachlorobutadiene (62.6%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Methylene Chloride (66.7%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Naphthalene (73.0%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Styrene (79.5%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Trans-1,2-Dichloroethene (67.1%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Tetrachloroethene (58.6%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Toluene (65.7%) failed below the acceptance limit (80-120%).
Trichloroethene (65.7%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Trichlorofluoromethane (74.3%) failed below the acceptance limit (80-120%). It recovered within the vendor acceptance limit.
Xylenes (66.0%) failed below the acceptance limit (80-120%).

A check sample, AX99837, with known concentrations, was injected on Max by method 8260B, prior to running sample AY09444. All analytes recovered between 80-120%. Sample AY09444 was analyzed on two instruments, Max and Sweetpea by method 524.2. The sample was also analyzed by method 8260B on Max. . It is unclear, at this time, why the recoveries were low. All method QC was checked for accuracy and was acceptable. The comparisons are listed below. (Table 2)

Table 2						
Analyte	Instrument Max AX99837 8260B	True Value	Instrument Max AY09444 8260B	Instrument Sweetpea AY09444 524.2	Instrument Max AY09444 524.2	True Value
1,1,1,2-Tetrachloroethane	31.3 (103%)	30.4	40.7 (75.2%)	39.7 (73.4%)	38.6 (71.3%)	54.1
1,1,1-Trichloroethane	87.5 (109%)	80.1	45.4 (69.5%)	43.9 (67.2%)	44.9 (68.8%)	65.3
1,1-Dichloroethene	---	---	12.9 (65.2%)	12.3 (62.1%)	13.4 (67.7%)	19.8
1,2,3-Trichloropropane	---	---	8.53 (89.9%)	6.45 (68%)	6.4 (67.4%)	9.49
1,2-Dibromoethane	35.5 (93.4%)	38.0	6.39 (74.4%)	6.84 (79.6%)	6.8 (79.2%)	8.59
1,2-Dichlorobenzene	31.6 (98.8%)	32.0	49.8 (74.7%)	47.1 (70.6%)	47.8 (71.7%)	66.7
1,2-Dichloroethane	22.3 (97.8%)	22.8	45.6 (77%)	44.5 (75.0%)	45.2 (76.2%)	59.3
1,3-Dichlorobenzene	88.0 (99.9%)	88.1	22.9 (69.6%)	21.9 (66.6%)	22.3 (67.8%)	32.9
1,4-Dichlorobenzene	92.1 (95.8%)	96.1	19.2 (68.8%)	17.5 (62.7%)	17.7 (63.4%)	27.9
Benzene	114 (102%)	112	36.2 (68.2%)	34.9 (65.7%)	36.1 (68%)	53.1
Bromodichloromethane	70.3 (106%)	66.0	28.1 (73.4%)	27.7 (72.3%)	27.4 (71.5%)	38.3
Cis-1, 2-Dichloroethene	---	---	27.9 (60.1%)	28.2 (60.8%)	29.4 (63.4%)	46.4
Carbon Tetrachloride	84.0 (111%)	76.0	19.7 (63.5%)	20.5 (66.1%)	19.9 (64.2%)	31.0
Chlorobenzene	23.4 (101%)	23.2	15.6 (73.6%)	14.4 (67.9%)	14.4 (67.9%)	21.2
Chloroform	36.7 (103%)	35.6	34.5 (73.9%)	34.0 (72.8%)	34.4 (73.7%)	46.7
Chloromethane	---	---	13.6 (56.7%)	16.3 (67.9%)	16 (66.7%)	24.0
Dibromochloromethane	30.2 (96.8%)	31.2	45.6 (71.3%)	48.2 (75.3%)	44.7 (69.8%)	64.0
Ethylbenzene	82.8 (103%)	80.1	21.7 (66%)	21.2 (64.4%)	21.6 (65.7%)	32.9
Hexachlorobutadiene	59 (98.3%)	60.0	35.2 (61.2%)	36.5 (63.5%)	36 (62.6%)	57.5
Methylene Chloride	79.2 (110%)	72.1	33.6 (77.2%)	34.5 (79.3%)	30.9 (71.0%)	43.5
Naphthalene	110 (91.7%)	120	31.7 (77.1%)	30.2 (73.5%)	30 (73.0%)	41.1
Styrene	55.2 (115%)	48	47.0 (77.8%)	47.7 (79%)	48 (79.5%)	60.4
Trans-1,2-Dichloroethene	---	---	36.3 (62.4%)	37.6 (66.4%)	38.6 (68.2%)	56.6
Tetrachloroethene	29.2 (97.3%)	30.0	15.2 (63.6%)	14.4 (60.3%)	13.7 (57.3%)	23.9
Toluene	89.1 (101%)	88.0	39.2 (66%)	39.1 (65.8%)	41.2 (69.4%)	59.4
Trichloroethene	39.3 (98.3%)	40.0	29.9 (63.3%)	30.6 (64.8%)	29.4 (62.2%)	47.2
Trichlorofluoromethane	---	---	15.5 (57.6%)	19.6 (72.9%)	20 (74.3%))	26.9
Xylenes	153 (102%)	150	138 (70.2%)	123.5 (62.7%)	136.5 (69.3%)	197

If you have any questions or require further information, please contact us at your convenience.
Thank you for choosing APPL, Inc.

Sincerely,

Frances Ledlaev

Frances Ledlaev, Quality Assurance Director
APPL, Inc.

FL/fl
cc: File

APPENDIX J

LIST OF DRY WELLS 2009

APPENDIX J

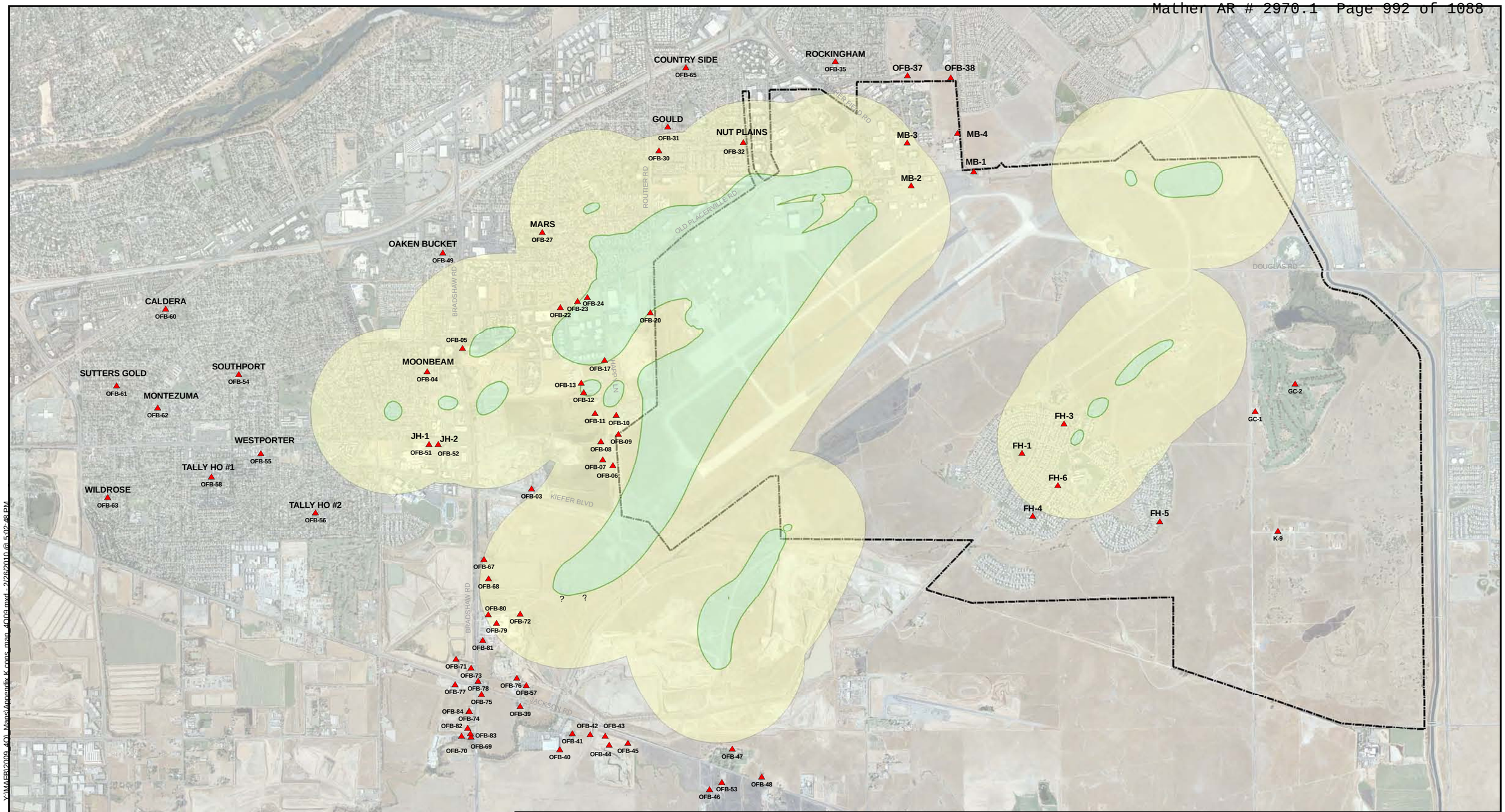
LIST OF DRY WELLS - 2009
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Well ID	Study Area	Hydro-Stratigraphic Unit	Reference Elevation (topc) (ft. msl)	Lower Screen Interval (ft. msl)	Calculated Groundwater Elevation (ft. msl)			
					2nd Quarter 2008	4th Quarter 2008	2nd Quarter 2009	4th Quarter 2009
7-BV-03	SITE 7	NA	75.924	23.66	**23.46**	**22.74**	**22.58**	--
7-BV-22	SITE 7	NA	76.331	28.61	**26.33**	**26.16**	**26.15**	**26.13**
7-BV-27	SITE 7	NA	74.052	-40	--	--	--	--
7-BV-28	SITE 7	NA	72.172	-40	--	--	--	--
7-HBV-02	SITE 7	NA	72.738	43.67	44.87	--	--	--
7-HBV-03	SITE 7	NA	75.884	44.07	45.61	44.23	--	--
7-PZ-37	SITE 7 PLUME	WT	75.8	-22.2	-18.8	-22.02	-20.72	**-22.45**
ACW PZ-06	AC&W	WT/C	121.62	-16.5	-12.73	--	--	--
ACW PZ-07	AC&W	WT/C	127.91	-14.5	-12.24	--	--	--
ACW PZ-08	AC&W	WT/C	123.75	-12	-10.7	--	--	--
ACW PZ-09	AC&W	WT/C	126.77	-11.2	-8.93	--	--	--
ACW PZ-10	AC&W	WT	129.19	-8.3	-6.41	--	--	--
MAFB-033	MBP	WT/Bu	80.88	-13.12	-9.22	-10.34	-11.59	**-13.88**
MAFB-054	AC&W	WT/C	118.68	-12.72	-8.62	**-13.52**	-11.58	**-14.41**
MAFB-075	LF04	WT/B	133.42	21.43	22.4	21.57	**21.37**	**21.35**
MAFB-092	MBP	WT	84.94	-9.49	-5.52	-7.61	-7.15	--
MAFB-099	MBP	WT	84.72	-7.29	-6.91	**-7.98**	**-8.05**	**-7.99**
MAFB-108	MBP	WT/B	94.43	-1.61	-0.29	**-2.19**	**-1.97**	**-2.34**
MAFB-110	LF03	WT/B	113.55	11.9	13.08	--	--	--
MAFB-121	MBP	WT	77.37	-14.83	-13.53	**-14.87**	**-15.08**	--
MAFB-122	MBP	WT	73.44	-12.58	-9.73	-10.44	-11.59	**-13.02**
MAFB-123	MBP	WT	77.19	-15.53	-13.54	-15.24	-15.06	**-15.94**
MAFB-124	MBP	WT	69.69	-15.34	-12.71	-13.88	-14.19	**-15.5**
MAFB-128	LF02	WT/B	122.28	-5.27	-4.76	**-5.49**	**-5.67**	**-5.57**
MAFB-130	LF03	WT/B	112.64	12.21	13.1	**12.11**	**12.08**	**11.96**
MAFB-139	LF05	WT/C	132.69	-1.96	3.65	--	-1.77	--
MAFB-141	LF05	WT/B	136.86	3.4	6.53	**1.91**	**2.28**	**2.06**
MAFB-159	MBP	WT	79.87	-14.27	-12.55	-13.81	-14.09	**-15.39**
MAFB-160	MBP	WT	84.89	-7.65	**-8.17**	**-8.44**	--	**-8.36**
MAFB-162	MBP	WT	87.57	-2.48	-0.63	-2.48	-0.02	**-2.58**
MAFB-163	MBP	WT	91.66	-3.11	-0.82	-2.93	-2.23	**-4.16**
MAFB-187	MBP	WT	86.74	-6.86	**-7.22**	**-7.35**	-5.31	**-7.27**
MAFB-188	MBP	WT	85.24	-8.36	-7.77	**-9.52**	**-9.41**	**-9.46**
MAFB-197	AC&W	WT/C	106.6	-10.88	**-10.97**	**-11.23**	**-12.4**	**-11.66**
MAFB-202	MBP	WT	82.7	-15.5	-12.39	-14.06	-13.98	--
MAFB-203	MBP	WT	78.76	-16	-13.74	-14.1	-15.27	**-16.49**
MAFB-204	MBP	WT	83.31	-14.7	-11.08	-12.34	-13.25	--
MAFB-206	MBP	WT	80.62	-13.4	-10.84	-11.95	-12.93	--
MAFB-208	MBP	WT	83.34	-14.6	-11.93	-14.56	-14.43	**-16.16**
MAFB-209	MBP	WT	82.53	-13.3	-11.56	-13.27	-13.07	--
MAFB-210	MBP	WT	83.33	-14.8	-11.43	-12.85	-12.88	**-14.91**
MAFB-212	MBP	WT	86.36	-11.6	-8.9	-10.32	-11.03	--
MAFB-214	MBP	WT	85.53	-9.9	-6.22	-7.54	-7.36	--
MAFB-244	MBP	WT	84.67	-11	-7.16	-10.09	-9.59	**-12.41**
MAFB-278	NEP/MBP	WT/B	94.04	2	--	--	--	--
MAFB-343	MBP	WT/B	87.88	-7.68	-3.84	-5.72	--	-6.67
MAFB-401	AC&W	WT/C	128.44	-9.2	--	**-9.29**	-8.38	**-9.29**
MAFB-403	AC&W	WT/C	132.21	-10.7	-6.54	-10.31	-9.69	**-10.94**
MBS EW-1A	MBP	WT	81.93	-5.27	-4.87	**-6.47**	**-7.83**	**-8.26**
MBS EW-3A	MBP	WT	75.54	-16.27	--	--	--	--
MBS PZ-01	MBP	WT	79.27	-14.2	-11.81	-12.99	-13.96	--
MBS PZ-59	MBP	WT/A	67.98	-23.94	-14.48	-16.57	--	-17.64

Notes:
Wells in this list were either dry or the water level was below the bottom of the screen for at least one measurement during 2009.
Bold data indicates the measured water level was below the bottom of the screen (i.e., the measurement is from water in the well sump)
-- indicates there was no water in the well
AC&W - Aircraft Control and Warning Plume
Bu - Unit B (upper)
ft msl - feet relative to mean sea level
LF - Landfill/Northeast Plume
MBP - Main Base/SAC Area Plume
NA - not available
NEP - Northeast Plume
topc - top of protective casing
WT - water table

APPENDIX K

2,000-FOOT PLUME BOUNDARY CONSULTATION ZONE MAP



GROUNDWATER COMPOSITE VOC PLUME (4Q09) TCE, PCE AND CCl_4, 0.5 ug/L

2000-FOOT PLUME BUFFER ZONE

GROUNDWATER PRODUCTION WELL

N

0 1,250 2,500 5,000 Feet

CONSULTATION ZONE (2000-FOOT PLUME BOUNDARY) IN ACCORDANCE WITH SACRAMENTO COUNTY CODE, SECTION 6.28.

Projection: CA State Plane Zone II
Datum: NAD 83
Prepared By: L. Carr

MWH

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	FIGURE NO.:

2000-FOOT PLUME BOUNDARY CONSULTATION ZONE MAP FOURTH QUARTER 2009

APPENDIX K

Y:\MAFB\2009_4Q_Maps\Appendix K cons_map_4Q09.mxd - 2/26/2010 @ 5:02:48 PM

APPENDIX L

2009 DRILLING UPDATE

MWH

BUILDING A BETTER WORLD

TECHNICAL MEMORANDUM

1 April 2010

DEPARTMENT OF THE AIR FORCE
AFCEE/EXC
2261 HUGHES AVE STE 155
LACKLAND AFB, TX 78236-9853

Project No.: 1951161.34010524

ATTN: Mr. Stanley Pehl
AFCEE Program Manager

SUBJECT: Groundwater Monitoring Well Installation
Technical Memorandum
Former Mather Air Force Base, California
Contract FA8903-08-D-8777, Task Order 0034
CDRL No. A001G

This technical memorandum documents the installation of five groundwater monitoring wells, 1 single-completion and 2 dual-completion wells installed, developed, and sampled between 26 October and 1 December 2009 at or near the former Mather Air Force Base (MAFB), California. MWH performed this work for the Air Force Center for Engineering and the Environment (AFCEE) under Contract FA8903-08-D-8777, Task Order (TO) 34, in support of the Air Force Real Property Agency (AFRPA).

The work was performed in accordance with the *Letter Work Plan for Installation of Four Groundwater Monitoring Wells for the Main Base/SAC Area Plume at the former Mather Air Force Base* (MWH, 2009). The location for each new groundwater monitoring well installed is shown on Figure 1.

PURPOSE, OBJECTIVES AND SCOPE OF WORK

The purpose and objective for the installation of groundwater monitoring wells was to:

3321 Power Inn Road
Suite 300
Sacramento, California 95826
TEL 916 924-8844
FAX 916 924-3293

- Install groundwater monitoring wells downgradient of the southwest lobe of the Main Base/Strategic Air Command (SAC) Area Plume to better define the extent of TCE in groundwater.
- Install a single-completion groundwater monitoring well upgradient of existing well MAFB-414, to better define extent and potential source area(s) of the carbon tetrachloride (CCl_4) historically detected in MAFB-414.

The scope of work included the drilling, installation, development, and sampling of five groundwater monitoring wells. The scope of work also included obtaining utility clearance at each drilling location; procurement of subcontractors; mobilization and demobilization; surveying; characterization and disposal of investigation-derived waste (IDW); and data management.

FIELD ACTIVITIES

All field activities were conducted according to the 2009 work plan, which incorporated by reference the requirements of the Field Sampling Plan (FSP) and Quality Assurance Project Plan, found in Appendix B and Appendix C of the *Final Work Plan for Installation of a Multiple-completion Groundwater Monitoring Well Southwest of Runway 22L* (MWH, 2007b). Drilling activities and well installation were conducted between 26 October and 11 November 2009.

Access Coordination and Permitting

Prior to initiating drilling activities, MWH met with Air Force representatives to locate the proposed drilling locations in the field. Access on base was coordinated through AFRPA and the Sacramento County Airport System. AFRPA coordinated with Teichert Aggregates to update easement agreements necessary to access the off-base drilling locations. In addition, AFRPA and MWH coordinated with Teichert Aggregates for the protection of sensitive habitat during the drilling of wells in or near the Aspen 6 mining reclamation area. In addition, on behalf of the Air Force, MWH secured a notice from the Federal Aviation Administration (FAA) that approved the drilling of the groundwater monitoring well located upgradient of existing well MAFB-414. The FAA notice stated that the work effort would comply with safe and efficient use of navigable airspace by aircraft and respect to the safety of persons and property on the ground.

Documented underground utilities were listed and marked in the field, as appropriate, through Underground Service Alert (USA) and the County of Sacramento. All boring locations were marked with white paint and USA was notified at least 48 hours in advance of drilling to allow the local underground utility companies to identify the location of any utilities in the area. In addition, all drilling locations were further cleared for utilities by hand-auguring to a minimum depth of five feet below ground surface (bgs).

Borehole Drilling and Well Construction

Drilling services for the groundwater monitoring well installation were provided by WDC Exploration and Wells (WDC) of Woodland, California. Drilling activities were performed using a 30K Speed Star air-rotary casing hammer (ARCH) drill rig, capable of drilling with air- or mud-rotary techniques.

The Air Force provided a staging and decontamination area, located on Femoyer Street north of Mather Boulevard (Figure 1). The staging area was used for equipment storage, supply storage, and equipment decontamination. WDC performed large equipment (drill rig) and down-hole tool decontamination on a portable metal decontamination pad. Decontamination was conducted with a high-pressure steam cleaner.

All drilling and field activities were overseen by an MWH geologist. The MWH geologist logged each of the boreholes according to the Unified Soil Classification System. Borehole logs are included in Attachment A.

Groundwater Monitoring Well MAFB-436

Between 26 October 2009 and 28 October 2009, WDC drilled and installed groundwater monitoring well MAFB-436, using ARCH drilling methods. MAFB-436 is located approximately 300 feet upgradient (northeast) of existing well MAFB-414 and soil vapor extraction Site 59 (Figure 1). Historically, groundwater samples from well MAFB-414 have contained CCl_4 at concentrations ranging from <0.5 μg/L up to 9.3 μg/L, above the aquifer cleanup level (ACL) for CCl_4 at 0.5 μg/L. This well was designed to screen across the water table to help define the extent and evaluate potential source(s) of CCl_4 detected in first groundwater in the area.

MAFB-436 was drilled to a total depth of 123.2 feet bgs, and first groundwater was encountered at a depth of approximately 95 feet bgs in a well-graded gravel with silt and sand. MAFB-436 is constructed as a single-completion groundwater monitoring well with 4-inch inner diameter, threaded Schedule 80 polyvinylchloride (PVC) casing. MAFB-436 was constructed with 15 feet of 0.010-inch slot size PVC screen, from 92.5 to 107.5 feet bgs. The well screen slot size was selected based on the lithology encountered adjacent to the proposed screen interval. The borehole log and well construction diagram for MAFB-436 is included in Attachment A and well construction details are presented in Table 1.

Groundwater Monitoring Wells MAFB-460 and MAFB-461

Between 29 October 2009 and 11 November 2009, WDC drilled and installed two dual-completion groundwater monitoring wells with completions identified as MAFB-460Bs, MAFB-460Bd, MAFB-461Bs, and MAFB-461Bd, using ARCH and mud rotary drilling methods. Bs refers to the shallower portion of hydrostratigraphic unit B (HSU B), and Bd refers to the deeper portion of HSU B. Dual-completion wells MAFB-460 and MAFB-461 are located downgradient (southwest) of the southwest lobe of the Main Base/SAC Area Plume, on property owned by Teichert Land Company, known as Aspen 6 (Figure 1), approximately 2,200 feet downgradient from existing wells MAFB-457 and MAFB-458. The new dual-completion wells are designed to screen HSU Bs and Bd, similar to the screen intervals of furthest downgradient southwest lobe wells MAFB-457Bs, MAFB-457Bd, MAFB-458Bs, and MAFB-458Bd, which have detected TCE slightly above the ACL of 5.0 μg/L. Installation of these dual-completion wells were designed to further delineate the extent of the southwest lobe of the Main Base/SAC Area Plume.

MAFB-460: was drilled to a total depth of 207 feet bgs. First groundwater was encountered at a depth of approximately 86 feet bgs. The borehole was initially advanced using ARCH drilling methods to a depth of approximately 100 feet bgs, at which point the drilling method was switched to mud rotary for the remaining depth of the borehole drilled. During the drilling of MAFB-460 several attempts were made to collect HydroPunch groundwater samples within permeable, coarse-grained sediments, considered to be water-bearing zones. The first HydroPunch attempt was made at 157 feet bgs, in a water-bearing zone considered to be HSU Bs; however, all attempts were unsuccessful, due to the coarse dense gravels encountered at this depth. Successful HydroPunch sample attempts were made at 170 and 190 feet bgs, considered to be HSU Bs and HSU Bd, respectively. HydroPunch samples collected were

labeled, placed in a cooler with ice, and submitted to Agriculture Priority Pollutants Laboratory (APPL) of Fresno California under strict chain of custody (COC) for analyses.

Upon completion of drilling the borehole for MAFB-460, it was geophysically logged to confirm the subsurface materials encountered, as described by the onsite geologist. In addition, the geophysical log was used to support the design and placement of well screens within the borehole. The geophysical log for MAFB-460 is included as Attachment B.

MAFB-460 is constructed as a dual-completion groundwater monitoring well with 2.5-inch inner diameter, low-carbon steel casing. MAFB-460Bs was constructed with 15 feet of 0.010-inch slot size continuous wire-wrapped stainless steel screen, from 152 to 167 feet bgs. MAFB-460Bd was constructed with 10 feet of 0.010-inch slot size continuous wire-wrapped stainless steel screen, from 180 to 190 feet bgs. The well construction diagram for MAFB-460 is included in Attachment A and well construction details are presented in Table 1.

MAFB-461: was drilled to a total depth of 228 feet bgs. First groundwater was encountered at a depth of approximately 96 feet bgs. The borehole was initially advanced using ARCH drilling methods to a depth of 80 feet bgs using drive casing and from 80 to 120 feet bgs was drilled as an open borehole, at which point the drilling method was switched to mud rotary for the remaining depth of the borehole drilled. During the drilling of MAFB-461 several attempts were made to collect HydroPunch groundwater samples at 155, 175, and 205 feet bgs; however, all attempts were unsuccessful.

Upon completion of drilling at MAFB-461, the borehole was geophysically logged to confirm the subsurface materials encountered. The geophysical log was used to support the design and placement of well screens within the borehole. The geophysical log for MAFB-461 is included in Attachment B.

MAFB-461 is constructed as a dual-completion groundwater monitoring well with 2.5-inch inner diameter, low-carbon steel casing. MAFB-461Bs was constructed with 15 feet of 0.010-inch slot size continuous wire-wrapped stainless steel screen, from 177 to 192 feet bgs. MAFB-461Bd was constructed with 10 feet of 0.010-inch slot size continuous wire-wrapped stainless steel screen, from 208 to 218 feet bgs. The well construction diagram for MAFB-461 is included in Attachment A and well construction details are presented in Table 1.

Groundwater Monitoring Well Development

Between 10 and 24 November 2009, WDC, under the supervision of an MWH geologist, developed each of the newly installed groundwater monitoring wells. Development was accomplished using a combination of bailing, swabbing, and pump and surge techniques as described in the FSP. MWH personnel recorded the progress of development, including the quantities of water and sediment removed, and field parameter readings. Field measurements included pH, turbidity, electrical conductivity, and temperature. Each groundwater monitoring well was developed until the turbidity was measured at less than 10 nephelometric turbidity units NTUs. Approximately 2,400 gallons of water was removed during development of MAFB-436, approximately 22,500 gallons from MAFB-460Bs and 460Bd, and approximately 16,500 gallons from MAFB-461Bs and MAFB-461Bd. Development water was discharged to outfall #1, located within the MSMA, under AFRPA sewer discharge permit GRW021.

Baseline Groundwater Sampling

A baseline water sample was collected from each groundwater monitoring well at least 24 hours after completion of its development. Each groundwater monitoring well sampled was conventionally purged in advance of sampling using a 2-inch diameter Grundfos Redi-Flo2 submersible pump. Baseline groundwater samples were collected after the groundwater monitoring well was purged a minimum of three well casing volumes and field parameters for pH, turbidity, and temperature were stabilized. Groundwater samples collected were submitted to APPL under strict COC for analyses. Chain-of custody forms are included in Attachment C.

HydroPunch and Baseline Groundwater Sample Analytical Results

HydroPunch groundwater samples collected at 170 and 190 feet bgs from MAFB-460 detected TCE at 0.38J µg/L and less than 0.05 µg/L, respectively.

On 30 November 2009 groundwater samples were collected from MAFB-460Bs and MAFB-460Bd and on 1 December 2009 groundwater samples were collected from MAFB-436, MAFB-461Bs, and MAFB-461Bd. TCE was detected at 3.7J µg/L in the groundwater sample collected from MAFB-460Bs and at 0.29J µg/L for the groundwater sample collected from MAFB-460Bd. Groundwater samples collected from MAFB-461Bs and MAFB-461Bd were reported as non-detect for VOCs. Baseline groundwater samples collected on 1 December 2009 from MAFB-436 reported toluene at 1.7 µg/L, PCE at 4.3 µg/L, and chloroform at 0.25J

µg/L. Total petroleum hydrocarbons characterized as gasoline (TPH-g) and characterized as diesel (TPH-d) were reported as non-detect. Laboratory analytical reports are included in Attachment C.

Waste Handling and Disposal

All waste handling procedures were performed in accordance with the FSP. All investigation derived waste (IDW), including drill cuttings, drilling mud, purge water from groundwater monitoring well installation, development, and sampling were stored in two Department of Transportation (DOT) approved twenty-yard roll-off bins and two 4,800-gallon open-top bins. Soil samples were collected from the roll-off bins and holding tanks for waste characterization and proper disposal. Soil and drilling mud samples were sent to APPL for analyses of VOCs using EPA Method SW8260B, total petroleum hydrocarbons characterized as gas (TPH-g), and total petroleum hydrocarbons characterized as diesel (TPH-d) using modified EPA Method 8015.

Two soil bins were generated from the drill cuttings with analytical results from each soil bin reported as non-detect for all analytes tested. Drill cuttings from these soil bins were transported and disposed of to the former oxidation ponds on-base, with permission from the Air Force. The drilling mud generated from the drilling of MAFB-460 and MAFB-461 and contained in two 4,800-gallon each open-top bins detected TPH-d at concentrations of approximately 50 milligrams per kilogram, which was confirmed by the collection of a second sample from each of the bins. The drilling mud from each of the open-top bins was solidified with vermiculite and transported to Forward Landfill for disposal under non-hazardous waste manifest. A copy of the non-hazardous waste manifests are included in Attachment D. Groundwater monitoring well development water and sampling purge water was disposed to the sanitary sewer under Sewer Discharge Permit GRW021, after samples from the holding tanks confirmed compliance with discharge standards.

Groundwater Monitoring Well Surveying

Between 14 and 18 December 2009, Hunter Surveying, Inc. (Hunter) of Sacramento, California, under the supervision of an MWH geologist, surveyed each new groundwater monitoring well installed. Hunter surveyed each new groundwater monitoring well using line-

leveling survey instruments to perform the survey. Hunter surveyed all groundwater monitoring wells by using the California State Plane Coordinate Zone 2 System, within 0.01 foot vertical control and 0.1 foot horizontal control. The top of each individual casing within a nested cluster was notched on the northern rim to mark the position where depth-to-water measurements should be taken. Elevation data for the top of protective casing were surveyed for each individual casing or well cluster. Survey data for each well is presented in Table 1.

SUMMARY

Two dual-completion groundwater monitoring wells (MAFB-460, and MAFB-461) were installed downgradient of the southwest lobe of the Main Base/SAC Area Plume in 2009 in an attempt to delineate the downgradient extent of the TCE plume exceeding cleanup levels. Both dual-completion wells were constructed with one screened interval in HSU Bs gravels and one in HSU Bd sands. One single-completion groundwater monitoring well, MAFB-436 was installed upgradient of MAFDB-414 in an attempt to further delineate the extent and potential source area(s) of CCl_4 detected in MAFB-414.

Baseline water samples were collected from all the new wells installed. Toluene was detected at 1.7 μg/L, PCE at 4.3 μg/L, and chloroform at 0.25J μg/L in the baseline groundwater sample collected from MAFB-436. TCE was detected at 3.7J μg/L in the groundwater sample collected from MAFB-460Bs and at 0.29J μg/L for the groundwater sample collected from MAFB-460Bd. VOCs were not detected in the baseline water samples collected from MAFB-461Bs and MAFB-461Bd. Baseline water samples collected from the two dual-completion wells installed downgradient of the southwest lobe help define the extent of the TCE plume above the ACL.

If you have any comments or questions, please contact Todd Daniels at 916-231-4455 or me at 916-418-8242.

Sincerely,

MWH Americas, Inc.

Daniel L. Shafer
Program Manager

Enclosures

Figure 1: Groundwater Monitoring Well Locations
Table 1: Groundwater Monitoring Well Construction Details
Attachment A: Groundwater Monitoring Well Boring Logs and Well Construction Diagrams
Attachment B: Geophysical Logs
Attachment C: Chain of Custody Forms and Laboratory Analytical Reports
Attachment D: Non-hazardous Waste Manifests

cc: D. Fortun (AFRPA/Western REC) (4)
HQ AFCEE/EXC, Attn: bc.deliverables@brooks.af.mil (Electronic, w/o enclosures)
https://afcee-eim.brooks.af.mil/Projects/PM/DZ

REFERENCES

MWH, 2007. Letter Work Plan for Installation of Multiple-completion Groundwater Monitoring Wells Southwest of Runway 22L, June.

MWH, 2009. Draft Letter Work Plan for Installation of Four Groundwater Monitoring Wells for the Main Base/SAC Area Plume at the former Mather Air Force Base, August.

MSMA
Staging Area

MAFB-436

MAFB-414

MAFB-458Bs
MAFB-458Bd

MAFB-457Bs
MAFB-457Bd

MAFB-460

MAFB-461

LEGEND:

- NEW GROUNDWATER MONITORING WELL (NOVEMBER 2009)
- GROUNDWATER MONITORING WELL
- MB/SAC COMPOSITE VOC PLUME OUTLINE (MCL) - 4Q08
- MATHER PROPERTY LINE

0 750 1,500 Feet

N

MWH

Projection:	CA State Plane Zone II
Datum:	NAD 83
Prepared By:	L. Carr

PROJECT:	FORMER MATHER AIR FORCE BASE SACRAMENTO COUNTY, CALIFORNIA
TITLE:	FIGURE NO.:
NEW GROUNDWATER MONITORING WELLS NOVEMBER 2009	***1***

Y:\MAFB\Drilling_2009\Tech_memo\new_gw_wells_tech_memo_DEC09_11x17.mxd - 12/21/2009 @ 11:37:51 AM

TABLE 1

WELL CONSTRUCTION DETAILS
FORMER MATHER AIR FORCE BASE
SACRAMENTO COUNTY, CALIFORNIA

Original Boring Identification	New Well Identification	Well Plume Locations	Well Completion Date	Well TOPC Elevation	Borehole Diameter (in)	Borehole Depth (ft bgs)	Screen Interval (ft bgs)	Screen Interval (msl)	Screen HSU	Slot Size (in)	Well Construction Material	Filter Pack Interval (ft bgs)	Bentonite Seal interval (ft bgs)	Grout Seal interval (ft bgs)	Well Surface Completion	Well Survey Date	*Northing*	*Easting*	*Comments*
PW-4	MAFB-436	Site 59	10/28/2009	83.1	12	123.2	92.5-107.5	-9.4 to -24.4	WT	0.010	4" Sch. 80 PVC	89.5-108.5	87.5-89.5	0-87.5	FM	12/12-19/2009	1968143.3	6760447.9	
PW-1	MAFB-460Bs	MB/SAC Southwest Lobe	11/4/2009	58.62	12	207	152-167	-93.38 to -108.38	Bs	0.010	2.5" LCS and SS	149-168	147-149 and 168-178	0-147	FM	12/12-19/2009	1957536.9	6753683.4	
PW-1	MAFB-460Bd	MB/SAC Southwest Lobe	11/3/2009	58.62	12	207	180-190	-121.38 to -131.38	Bd	0.010	2.5" LCS and SS	178-191	191-207	NA	FM	12/12-19/2009	1957536.5	6753683.6	
PW-2	MAFB-461Bs	MB/SAC Southwest Lobe	11/11/2009	70.36	12	228	177-192	-106.64 to -116.64	Bs	0.010	2.5" LCS and SS	176-192	174-176	0-174	FM	12/12-19/2009	1957276.9	6752566.4	
PW-2	MAFB-461Bd	MB/SAC Southwest Lobe	11/10/2009	70.36	12	228	208-218	-137.64 to -147.64	Bd	0.010	2.5" LCS and SS	205-223	192-205	NA	FM	12/12-19/2009	1957276.5	6752566.3	Borehole caved from 223 to 228 feet bgs

Notes:

FM - Flush mount Christy box with concrete inset
ft bgs - feet below ground surface
HSU - hydrostratigraphic unit
in - inches
LCS - 2.5" inner diameter low carbon steel
MB/SAC - Main Base Strategic Air Command
msl - mean sea level
PVC - Polyvinyl chloride
Sch. - Schedule
SS - #304 stainless steel screen
TOPC - top of protective casing

Mather AR # 2970.1 Page 1005 of 1088

ATTACHMENT A

GROUNDWATER MONITORING WELL BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

MWH

Boring ID: **MAFB-436** | Well ID: **MAFB-436**

Borehole Diam. (in.): **12"**	Total Depth (ft): **123.0**	Project: **TO-34**	
Northing (ft): **1968143**	Easting (ft): **6760448**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-26-2009**	Start Time: **13:50**	Logged By: **D.Burr/ M.Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **10-27-2009**	Finish Time: **09:45**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **95** ▽	Date / Time: **10-27-2009 08:45**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **95.41** ▼	Date / Time: **10-27-2009 10:50**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **10-28-2009**	Completion Time: **12:00**
Samplers: **grab cuttings from cyclone**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
						0			two inch asphalt 10 inches of aggregate base rock					
									Hand Auger to five feet bgs					
						5		CL	(CL) Sandy Lean Clay, black (7.5YR 2.5/1), soft, moist, noncemented, moderately plastic, iron oxide staining			10	20	70
						10		CL	(CL) Sandy Lean Clay, dark brown (7.5YR 3/4), soft, moist, noncemented, low to medium plasticity, trace mica/ quartz present			20	20	60
				0.0				GM	(GM) Silty Gravel, dark brown (7.5YR 3/4), loose, moist, noncemented, gravels up to 3" diameter, subrounded to rounded	60	tr	15	tr	15
4" Sch. 80 PVC blank casing from 0'- 92.5' bgs						15								
						20			becomes dark grayish brown (2.5Y 4/2), increase in gravel and fine sand	70		tr	15	10
				0.0		25			trace mica present	70		tr	15	10
				0.0		30			gravels have clay coating	70		20	tr	10

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **MAFB-436** | Well ID: MAFB-436

Borehole Diam. (in.): **12"**	Total Depth (ft): **123.0**	Project: **TO-34**	
Northing (ft): **1968143**	Easting (ft): **6760448**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-26-2009**	Start Time: **13:50**	Logged By: **D.Burr/ M.Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **10-27-2009**	Finish Time: **09:45**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **95** ▽	Date / Time: **10-27-2009 08:45**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **95.41** ▼	Date / Time: **10-27-2009 10:50**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **10-28-2009**	Completion Time: **12:00**
Samplers: **grab cuttings from cyclone**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
				0.0		35		SP-SM	(SP-SM) Poorly Graded Sand With Silt And Gravel, olive brown (2.5Y 4/3), loose, moist, trace mica present	30		40	15	15
				50		40		ML	(ML) Sandy Silt, dark yellowish brown (10YR 3/4), medium stiff, moist, strong hydrocarbon odor, moderate cementation, low to non plastic	0	0	0	40	60
0'- 87.5' - cement grout				229		45								
				700										
				731		50								
				940										
				50										
				0.0		55		ML	(ML) Sandy Silt, strong brown (7.5YR 4/6), hard to very stiff, moist, no odor, strong to moderate cementation, low plasticity	0	0	0	15	85
				0.0		60								

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH | Boring ID: **MAFB-436** | Well ID: **MAFB-436**

Borehole Diam. (in.): **12"**	Total Depth (ft): **123.0**	Project: **TO-34**	
Northing (ft): **1968143**	Easting (ft): **6760448**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-26-2009**	Start Time: **13:50**	Logged By: **D.Burr/ M.Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **10-27-2009**	Finish Time: **09:45**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **95** ▽	Date / Time: **10-27-2009 08:45**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **95.41** ▼	Date / Time: **10-27-2009 10:50**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **10-28-2009**	Completion Time: **12:00**
Samplers: **grab cuttings from cyclone**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
				0.0				SM	(SM) Silty Sand, strong brown (7.5YR 5/6), loose, moist, nonplastic, no odor to slight odor, mica present	0	0	0	70	30/tr
				0.0		65								
				0.0		70		ML	(ML) Sandy Silt, dark yellowish brown (10YR 4/4), hard, moist, strong cementation, low plasticity, no odor	0	0	0	30	70
				0.0										
				0.0				SM	(SM) Silty Sand, strong brown (7.5YR 4/6), medium dense, moist, weak cementation, nonplastic, no odor	0	0	0	60	40
				2.0		75								
						80								
								ML	(ML) Sandy Silt, yellowish red (5YR 4/6), stiff, moist, noncemented, low plasticity, no odor	0	0	0	30	70
				0.0		85								
87.5'-89.5' - bentonite chip seal														
89.5'-90.5' - #60 transition sand				0.0		90								
90.5' - 108.5' - #1C monterey filter pack sand														

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **MAFB-436** | Well ID: **MAFB-436**

Borehole Diam. (in.): **12"**	Total Depth (ft): **123.0**	Project: **TO-34**	
Northing (ft): **1968143**	Easting (ft): **6760448**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-26-2009**	Start Time: **13:50**	Logged By: **D.Burr/ M.Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **10-27-2009**	Finish Time: **09:45**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **95** ▽	Date / Time: **10-27-2009 08:45**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **95.41** ▼	Date / Time: **10-27-2009 10:50**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **10-28-2009**	Completion Time: **12:00**
Samplers: **grab cuttings from cyclone**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
				0.0	▽▼	95		GW-GM	(GW-GM) Well Graded Gravel With Silt And Sand, dark yellowish brown (10YR 4/6), medium dense, wet, noncemented, nonplastic, no odor, rounded to subrounded gravel, subangular to subrounded sands, meta-sed gravel, up to 2" gravel	50	20	10	10	10
4" Sch. 80 PVC 0.010" slotted screen				0.0		100								
				0.0		105								
end cap														
				0.0		110		GW-GM	gravel size increases 2" to 3" in diameter					
				0.0										
				0.0				GW-GM	gravel size decreases					
108.5'-123.2' - bentonite chip seal						115								
				0.0										
				0.0		120		GW-GM	gravel size increases					
total depth 123.2' bgs									total depth 123.2' bgs, 10/28/09 @ 12:00					

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

MWH

Boring ID: **PW-1** | Well ID: **MAFB-460Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **207.0**	Project: **TO-34**	
Northing (ft): **1957537**	Easting (ft): **6753684**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-29-2009**	Start Time: **09:30**	Logged By: **M. Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-03-2009**	Finish Time: **16:00**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **92.40** ▽	Date / Time: **10-29-2009 13:30**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **86** ▼	Date / Time: **10-29-2009 14:30**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-04-2009**	Completion Time: **16:00**
Samplers: **grab cuttings from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval	Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
					0.0		0		ML	(ML) Sandy Silt, brown (7.5YR 4/4), very stiff, moist, No odor, moderate cementation, low to non plastic, quartz and meta -sed medium grained sands, angular medium sands	0	0	5	30	65
					0.0		5			rig chatter					
									GM	(GM) Silty Gravel With Sand, yellowish red (5YR 4/6), dense, moist, noncemented, nonplastic, subrounded to rounded gravels, up to 2" gravel, subangular to subrounded sands	60	10	5	5	20
					0.0		10		ML	(ML) Sandy Silt, strong brown (7.5YR 4/6), soft, moist, weak cementation, low to nonplastic	0	0	10	20	70
					0.0										
2.5" Sch. 40 Low Carbon Steel blank casing from 0'- 152' bgs					0.0		15								
2.5" Sch. 40 Low Carbon Steel blank casing from 0'- 180' bgs										plasticity increases					
					0.0		20		CL	(CL) Sandy Lean Clay, yellowish brown (10YR 5/6), very soft, moist, noncemented, low plasticity	0	0	0	30	70
					0.0		25								
					0.0										
					0.0		30			increase in cementation at 30" bgs					
									ML	(ML) Sandy Silt, brown (7.5YR 4/4), soft, moist, moderate cementation, nonplastic, some low	0	0	5	30	65

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **PW-1** | Well ID: **MAFB-460Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **207.0**	Project: **TO-34**	
Northing (ft): **1957537**	Easting (ft): **6753684**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-29-2009**	Start Time: **09:30**	Logged By: **M. Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-03-2009**	Finish Time: **16:00**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **92.40** ▽	Date / Time: **10-29-2009 13:30**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **86** ▼	Date / Time: **10-29-2009 14:30**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-04-2009**	Completion Time: **16:00**
Samplers: **grab cuttings from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
				0.0					plasticity					
				0.0		35								
								CL	(CL) Sandy Lean Clay, light olive brown (2.5Y 5/3), soft to medium stiff, moist, noncemented, low to medium plasticity, subangular to subrounded sands, quartz rich	0	10	20	10	60
				0.0		40								
								SC	(SC) Clayey Sand, yellowish brown (10YR 5/4), loose, moist, noncemented, fines have low plasticity, mica present, quartz rich subrounded sands	0	0	20	60	20
				0.0		45								
								ML	(ML) Sandy Silt, dark yellowish brown (10YR 4/4), soft to medium stiff, moist, weak cementation,low to nonplastic	0	0	0	20	80
				0.0		50		SM	(SM) Silty Sand, brown (10YR 5/3), loose, moist, noncemented, rounded to subrounded sand, quartz, meta -sed, mica present	0	0	0	80	20
				0.0		55		SM	(ML) Sandy Silt, reddish brown (5YR 5/4), medium stiff, moist, noncemented, nonplastic	0	0	5	30	65
				0.0		60		CL	(CL) Sandy Lean Clay, yellowish red (5YR 4/6), very stiff, moist, weak cementation, low plasticity	0	0	0	30	70

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **PW-1** | Well ID: **MAFB-460Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **207.0**	Project: **TO-34**	
Northing (ft): **1957537**	Easting (ft): **6753684**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-29-2009**	Start Time: **09:30**	Logged By: **M. Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-03-2009**	Finish Time: **16:00**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **92.40** ▽	Date / Time: **10-29-2009 13:30**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **86** ▼	Date / Time: **10-29-2009 14:30**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-04-2009**	Completion Time: **16:00**
Samplers: **grab cuttings from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
0'- 147' - Cement Grout				0.0		65								
				0.0		70		ML	(ML) Sandy Silt, dark reddish brown (5YR 3/4), stiff, moist, weak cementation, nonplastic, fine mica flakes present	0	0	10	25	65
				0.0		75								
				0.0		80		CL	(CL) Sandy Lean Clay, olive brown (2.5Y 4/4), very stiff to stiff, moist, moderate cementation, low to medium plasticity, mica flakes present	0	0	0	25	75
				0.0	▼	85								
				0.0	▽	90			increased clay content					

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH | Boring ID: **PW-1** | Well ID: **MAFB-460Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **207.0**	Project: **TO-34**	
Northing (ft): **1957537**	Easting (ft): **6753684**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-29-2009**	Start Time: **09:30**	Logged By: **M. Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-03-2009**	Finish Time: **16:00**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **92.40** ▽	Date / Time: **10-29-2009 13:30**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **86** ▼	Date / Time: **10-29-2009 14:30**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-04-2009**	Completion Time: **16:00**
Samplers: **grab cuttings from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
						95		ML	(ML) Sandy Silt, dark yellowish brown (10YR 4/6), stiff, moist, moderate cementation, nonplastic	0	5	10	10	75
						100		SC	(SC) Clayey Sand, reddish brown (5YR 4/4), medium dense, wet, noncemented, nonplastic, quartz rich, meta -sed grains, angular to subangular sands	0	20	10	40	30
						105		CL	(CL) Sandy Lean Clay, very stiff, wet, moderate cementation, medium to low plasticity, subangular to subrounded sands	0	10	15	15	40
						110		ML	(ML) Sandy Silt, dark grayish brown (2.5Y 4/2), loose, wet, weak cementation, low to nonplastic, subrounded and subangular sands, meta -sed sands	0	5	10	20	65
						115								
						120			slight increase in fines, cementation increases	0	0	20	10	70

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH | Boring ID: **PW-1** | Well ID: **MAFB-460Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **207.0**	Project: **TO-34**	
Northing (ft): **1957537**	Easting (ft): **6753684**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-29-2009**	Start Time: **09:30**	Logged By: **M. Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-03-2009**	Finish Time: **16:00**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **92.40** ▽	Date / Time: **10-29-2009 13:30**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **86** ▼	Date / Time: **10-29-2009 14:30**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-04-2009**	Completion Time: **16:00**
Samplers: **grab cuttings from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
						125		SM	(SM) Silty Sand, dark yellowish brown (10YR 4/6), loose to medium dense, wet, noncemented, nonplastic, subrounded sands	0	0	10	60	30
						130								
						135			grain sizes decrease	0	0	0	60	40
						140								
						145								
147'-149' - Bentonite Chip Seal 149'-150' - #60 transition sand						150			grain sizes increase	0	5	10	60	25
150' - 168' - #1C monterey filter pack sand Dielectric Coupler								SP-SM	(SP-SM) Poorly Graded Sand With Silt, dark brown (10YR 3/3), medium dense to loose, wet, noncemented, nonplastic, subrounded sands, quartz rich and meta -sed grains, some subangular sands	0	10	50	30	10
						155								

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **PW-1** | Well ID: **MAFB-460Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **207.0**	Project: **TO-34**	
Northing (ft): **1957537**	Easting (ft): **6753684**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-29-2009**	Start Time: **09:30**	Logged By: **M. Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-03-2009**	Finish Time: **16:00**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **92.40** ▽	Date / Time: **10-29-2009 13:30**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **86** ▼	Date / Time: **10-29-2009 14:30**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-04-2009**	Completion Time: **16:00**
Samplers: **grab cuttings from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
						155			HydraPunch sample PW-1-157-GW, three attempts with refusal no sample taken					
2.5" Sch. 40 Stainless Steel 0.010" slotted screen						160			increased coarse sand	0	30	50	10	10
						165			decreased fines, increased coarse sand and gravels	30	40	20	tr	tr
Stainless Steel end cap						170		GP	(GP) Poorly Graded Gravel With Sand, (multi color), dense, wet, noncemented, subangular, mostly subrounded gravel, meta -sed HydraPunch sample PW-1-170-GW, sampling was successful	70	30	0	0	0
168'-178' - Bentonite Chip Seal								CL	(CL) Sandy Lean Clay, dark yellowish brown (10YR 4/4), stiff, wet, noncemented, low plasticity, subangular sands, meta -sed mostly quartz	0	tr	20	10	70
						175								
178'-179' - #60 transition sand								SP-SC	(SP-SC) Poorly Graded Sand With Clay, dark olive brown (2.5Y 3/3), dense, wet, noncemented, subangular meta -sed sands	0	10	15	60	15
179' - 191' - #1C monterey filter pack sand						180			eLog from 0-182' bgs					
Dielectric Coupler								CL	(CL) Sandy Lean Clay, dark yellowish brown (10YR 4/6), very stiff, wet, moderate cementation, low plasticity, subrounded sands	0	0	20	10	70
2.5" Sch. 40 Stainless Steel						185								

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **PW-1** | Well ID: **MAFB-460Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **207.0**	Project: **TO-34**	
Northing (ft): **1957537**	Easting (ft): **6753684**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **10-29-2009**	Start Time: **09:30**	Logged By: **M. Sperber**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-03-2009**	Finish Time: **16:00**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **92.40** ▽	Date / Time: **10-29-2009 13:30**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **86** ▼	Date / Time: **10-29-2009 14:30**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-04-2009**	Completion Time: **16:00**
Samplers: **grab cuttings from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
0.010" slotted screen									
			SW-SM	(SW-SM) Well Graded Sand With Silt, dark yellowish brown (10YR 4/4), dense, wet, noncemented, weak cementation, no odor, nonplastic, quartz rich no mica	0	tr	60	20	15
Stainless Steel end cap	190			HydraPunch sample PW-1-190-GW, sampling was successful					
				increase coarse sand	0	20	50	15	15
			CL	(CL) Sandy Lean Clay, strong brown (7.5YR 4/6), dense, wet, noncemented, low plasticity, quartz and meta -sed sands, subangular	0	tr	20	15	65
	195								
				sand content increases	0	5	25	20	50
191'-207' - Bentonite Chip Seal	200								
	205			sand content decreases	0	0	15	25	60
total depth 207' bgs				total depth 207' bgs, 11/2/09 @ 16:00					
	210								
	215								

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

MWH

Boring ID: **PW-2** | Well ID: **MAFB-461Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **228.0**	Project: **TO-34**	
Northing (ft): **1957277**	Easting (ft): **6752566**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **11-06-2009**	Start Time: **13:30**	Logged By: **T. Daniels/ D.Burr**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-09-2009**	Finish Time: **12:23**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **96** ▽	Date / Time: **11-06-2009 09:26**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **108** ▼	Date / Time: **11-06-2009 08:15**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-11-2009**	Completion Time: **16:00**
Samplers: **grab cuttiing from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
	0		GM	(GM) Silty Gravel, very dark gray (7.5YR 3/1), medium dense, dry to moist, trace roots near surface, gravel up to 4" diameter, very fine sand, silt	60			10	30
	5		SP	(SP) Poorly Graded Sand With Gravel, brown (7.5YR 4/4), medium dense, moist, gravelly sand with minor silt, subrounded gravel to 1.0"	10			85	5
	10			increase sand content with depth					
			SP	(SP) Poorly Graded Sand, brown (7.5YR 4/4), loose to medium dense, drill rig has easy penetration, trace gravel to 1", subrounded to subangular, trace silt	5		5	85	5
2.5" Sch. 40 Low Carbon Steel blank casing from 0'- 177' bgs	15			same as above, sand with trace silt continues, trace clay					5-10
2.5" Sch. 40 Low Carbon Steel blank casing from 0'- 208' bgs	20			slight odor, not sure					
				black (7.5YR 2.5/1), slight color change					
	25			minor to trace clay at 25' bgs					
	30								

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **PW-2** | Well ID: **MAFB-461Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **228.0**	Project: **TO-34**	
Northing (ft): **1957277**	Easting (ft): **6752566**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **11-06-2009**	Start Time: **13:30**	Logged By: **T. Daniels/ D.Burr**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-09-2009**	Finish Time: **12:23**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **96** ▽	Date / Time: **11-06-2009 09:26**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **108** ▼	Date / Time: **11-06-2009 08:15**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-11-2009**	Completion Time: **16:00**
Samplers: **grab cuttiing from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval / Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
								ML	(CL-ML) Silty Clay, dark yellowish brown (10YR 4/6), medium stiff, dry to moist, low plasticity, trace subangular gravel to 1"				10	85
						35			trace subangular gravel to increasing gravel with depth					
						40		ML	(ML) Gravelly Silt, brown (7.5YR 4/3), medium stiff to stiff, dry to moist, gravel to 1", angular gravel chips coming out minor clay, minor fine sand	20			20	60
								GM	(GM) Silty Gravel, brown (7.5YR 5/4), medium dense to dense, moist, subangular to subrounded gravel, to greater than 2", minor sand	60			10	30
						45			rig chatter, vibration increase gravel content					
								SP	increased sand content at 45" bgs (SP) Poorly Graded Sand With Gravel, brown (7.5YR 4/2), medium dense, moist, gravel to 1" subrounded, rig chatter, fine sand, trace silt	10			80	10
						50			gravely sand continues					
						55			decrease gravel with depth					
								SP	(SP) Poorly Graded Sand, loose to medium dense, moist, sand with trace silt, yellowish to light brown, very fine to dense fine sand			5	90	5
						60			increased clay content, soil binding in hose					

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **PW-2** | Well ID: **MAFB-461Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **228.0**	Project: **TO-34**	
Northing (ft): **1957277**	Easting (ft): **6752566**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **11-06-2009**	Start Time: **13:30**	Logged By: **T. Daniels/ D.Burr**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-09-2009**	Finish Time: **12:23**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **96** ▽	Date / Time: **11-06-2009 09:26**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **108** ▼	Date / Time: **11-06-2009 08:15**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-11-2009**	Completion Time: **16:00**
Samplers: **grab cuttiing from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval / Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
						65		CL	(CL) Sandy Lean Clay, olive gray (5Y 5/2), medium stiff to stiff, very moist, very fine sand				30	70
								SM	(SM) Silty Sand, olive gray (5Y 5/2), moist, very fine sand to fine sand				70	30
						70								
						75		SM	(SC-SM) Silty, Clayey Sand, olive gray (5Y 5/2), loose to medium dense, moist, very fine to fine sand				80	20
									clay content decreases					
						80			driller open hole here, no drive casing, want to elog first water					
								CL	increased clay content with depth (CL-ML) Silty Clay, brown (10YR 5/3), very moist, trace indurated fragments, low plasticity, can form thin threads					100
0'- 174' - Cement Grout						85								
						90			same as above, slow drilling, clay is balling up, difficult to clear hole					

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **PW-2** | Well ID: **MAFB-461Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **228.0**	Project: **TO-34**	
Northing (ft): **1957277**	Easting (ft): **6752566**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **11-06-2009**	Start Time: **13:30**	Logged By: **T. Daniels/ D.Burr**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-09-2009**	Finish Time: **12:23**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **96** ▽	Date / Time: **11-06-2009 09:26**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **108** ▼	Date / Time: **11-06-2009 08:15**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-11-2009**	Completion Time: **16:00**
Samplers: **grab cuttiing from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval / Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
					▽	95			same as above very moist, silty clay, brown, gumming up hole and cyclone					
						100								
						105		CL	(CL-ML) Silty Clay, light yellowish brown (10YR 6/4), very moist, moderate induration					100
					▼				increased moisture with depth hit water will tag					
						110		SP-SM	(SP-SM) Poorly Graded Sand With Silt, brownish yellow (10YR 6/6), medium dense, very fine to fine sand				90	10
						115								
						120			driller will switch to mud drive casing is at 80' bgs, and open hole from 80 to 120' bgs					

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH | Boring ID: **PW-2** | Well ID: **MAFB-461Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **228.0**	Project: **TO-34**	
Northing (ft): **1957277**	Easting (ft): **6752566**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **11-06-2009**	Start Time: **13:30**	Logged By: **T. Daniels/ D.Burr**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-09-2009**	Finish Time: **12:23**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **96** ▽	Date / Time: **11-06-2009 09:26**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **108** ▼	Date / Time: **11-06-2009 08:15**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-11-2009**	Completion Time: **16:00**
Samplers: **grab cuttiing from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval / Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
						125		SP-SM	(SP-SM) Poorly Graded Sand With Silt, dark yellowish brown (10YR 4/4), medium to fine sand			15	75	10
						130			same as above					
						135								
						140			as above, increase in medium sand, abundant quartz grains			25	65	10
						145								
						150		SP-SM	(SP-SM) Poorly Graded Sand With Silt, dark yellowish brown (10YR 4/6), trace clay, medium sand, angular predominately quartz and feldspar			30	60	10
						155								

Log Continued on Next Page

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

MWH | Boring ID: **PW-2** | Well ID: **MAFB-461Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **228.0**	Project: **TO-34**	
Northing (ft): **1957277**	Easting (ft): **6752566**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **11-06-2009**	Start Time: **13:30**	Logged By: **T. Daniels/ D.Burr**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-09-2009**	Finish Time: **12:23**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **96** ▽	Date / Time: **11-06-2009 09:26**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **108** ▼	Date / Time: **11-06-2009 08:15**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-11-2009**	Completion Time: **16:00**
Samplers: **grab cuttiing from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

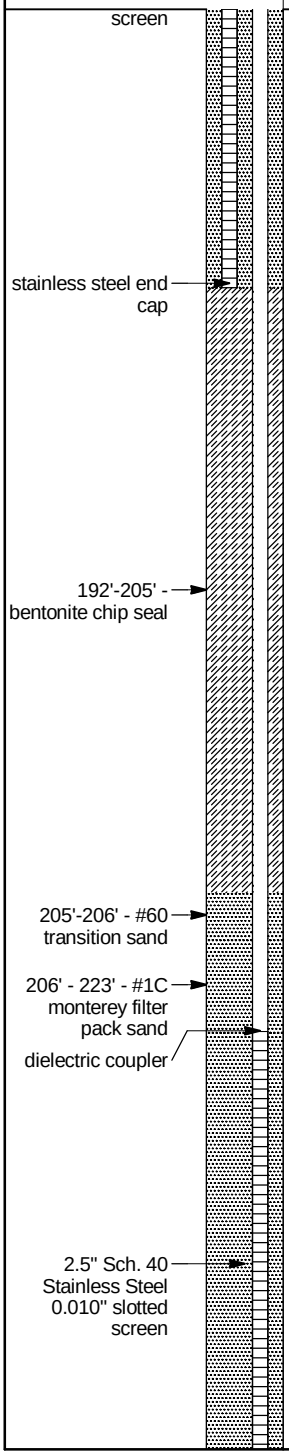
Well Completion	Sample Interval / Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
						155		SC	(SC) Clayey Sand, light yellowish brown (10YR 6/4), loose to dense, increase in clay content, abundant iron oxide, sand is angular to subangular			30	40	30
						160								
						165			same as above					
						170								
								SP	(SP) Poorly Graded Sand, loose, angular, predominately mafic, trace quartz, mica, and feldspar			90	10	
174'-176' - bentonite chip seal						175								
176'-177' - #60 transition sand; dielectric coupler; 177' - 192' - #1C monterey filter pack sand								SP	(SP) Poorly Graded Sand With Gravel, sand size grains have been broken off of potassium feldspar pieces, all angular, predominately mafic and feldspar, some quartz, trace mica	20	30	50		
						180								
2.5" Sch. 40 stainless steel 0.010" slotted						185			same as above					

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH | Boring ID: **PW-2** | Well ID: **MAFB-461Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **228.0**	Project: **TO-34**	
Northing (ft): **1957277**	Easting (ft): **6752566**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **11-06-2009**	Start Time: **13:30**	Logged By: **T. Daniels/ D.Burr**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-09-2009**	Finish Time: **12:23**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **96** ▽	Date / Time: **11-06-2009 09:26**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **108** ▼	Date / Time: **11-06-2009 08:15**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-11-2009**	Completion Time: **16:00**
Samplers: **grab cuttiing from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**



Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
190			same as above					
195		SC	(SC-SM) Silty, Clayey Sand, dark yellowish brown (10YR 4/4), dense, predominately fine sand, drilling becomes easier	tr		10	70	20
200		SC	(SC) Clayey Sand With Gravel, dark yellowish brown (10YR 4/6), soft, noncemented, low plasticity, gravel is angular	20	10	10	30	30
205		SP-SC	(SP-SC) Poorly Graded Sand With Clay, loose, sand is angular, predominately quartz and mafic, trace mica, minor clay, HydroPunch sample attempted		5	70	10	15
210								
215			same as above, increase in medium sand			85	10	5

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

Log Continued on Next Page

MWH

Boring ID: **PW-2** | Well ID: **MAFB-461Bs & Bd**

Borehole Diam. (in.): **12"**	Total Depth (ft): **228.0**	Project: **TO-34**	
Northing (ft): **1957277**	Easting (ft): **6752566**	Job Number: **1951161.34010524**	Site: **Former Mather AFB**
Drill Start Date: **11-06-2009**	Start Time: **13:30**	Logged By: **T. Daniels/ D.Burr**	Reviewed By: **Todd Daniels**
Drill Finish Date: **11-09-2009**	Finish Time: **12:23**	Drilling Contractor: **WDC Exploration Wells**	Field Instrumentation: **PID**
Depth 1st H_2O (ft): **96** ▽	Date / Time: **11-06-2009 09:26**	Drill Rig Type/Method: **ARCH SpeedStar 30K**	
Depth H_2O After Drilling (ft): **108** ▼	Date / Time: **11-06-2009 08:15**	Driller's Name: **Joe Zimmer**	
Comments:		Well Comp. Date: **11-11-2009**	Completion Time: **16:00**
Samplers: **grab cuttiing from cyclone/ HydroPunch**		Soil Backfill Date: **N/A**	Backfill Time: **N/A**

Well Completion	Sample Interval	Retained Sample Type	Recovery (%)	Blow Count/6"	PID (ppm)	Water Level	Depth (feet)	Graphic Log	USCS Soil Classification	Description	Est. % of Soil: Gravel	Coarse Sand	Med. Sand	Fine Sand	Silt/Clay
stainless steel end cap							220			yellowish brown (10YR 5/4), loose, increase in clay and coarse sand		10	70	10	10
223'-228' - native slough							225								
									SC	(SC) Clayey Sand, dark yellowish brown (10YR 4/6), loose, moderate cementation, trace gravel is coarse, sand is angular, medium sand is subangular	tr	10	25	25	40
total depth 228' bgs							230			total depth 228' bgs, 11/9/09 @ 12:23					
							235								
							240								
							245								

LOG OF BORING TO-34.GPJ MWH WC.GDT 12/21/09

ATTACHMENT B

GEOPHYSICAL LOGS

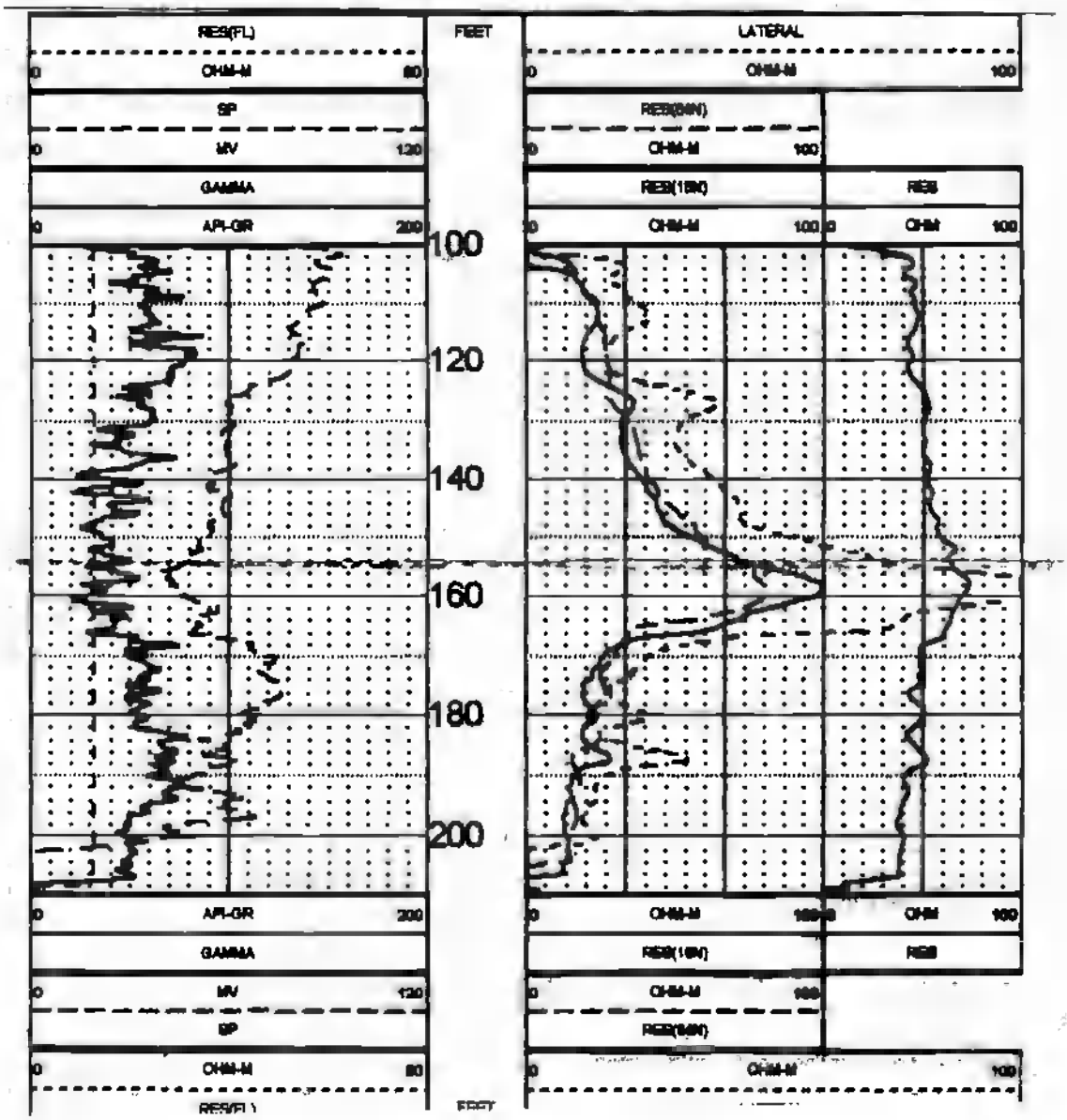
MAFB-460 / PW 1 RUN-2

COMPANY	: MAFB				
WELL	: MAFB-460 / PW 1 RUN-2				
LOCATION/FIELD	: BRADSHAW				
COUNTY	: SAC.				
LOCATION	: CA				
SECTION	: NA	TOWNSHIP	: NA	RANGE	: NA
DATE	: 11/03/09	PERMANENT DATUM	: G.L.		
DEPTH DRILLER	: 207 FT			KB	: NA
LOG BOTTOM	: 209.10	LOG MEASURED FROM	: G.L.	DF	: NA
LOG TOP	: 4.70	DRL MEASURED FROM	: G.L.	GL	: NA
CASING DIAMETER	:	LOGGING UNIT	: 2		
CASING TYPE	:	FIELD OFFICE	:		
CASING THICKNESS	:	RECORDED BY	: SHANHOLTZER		
BIT SIZE	: 12	BOREHOLE FLUID	: CLAYGEL	FILE	: ORIGINAL
MAGNETIC DECL.	: 15	RM	:	TYPE	: 8044A
MATRIX DENSITY	: 2.65	RM TEMPERATURE	: 78	LGDATE	: 11/03/09
NEUTRON MATRIX	: DOLOMITE	MATRIX DELTA T	: 44		
				THRESH	: 5000

OTHER SERVICES
110309
INVOICE
400

WDC-DRILLER
WATER QUALITY-GOOD-400-600 PPM TDS

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



DEWEY DATA INC.

DOWN HOLE SURVEYS

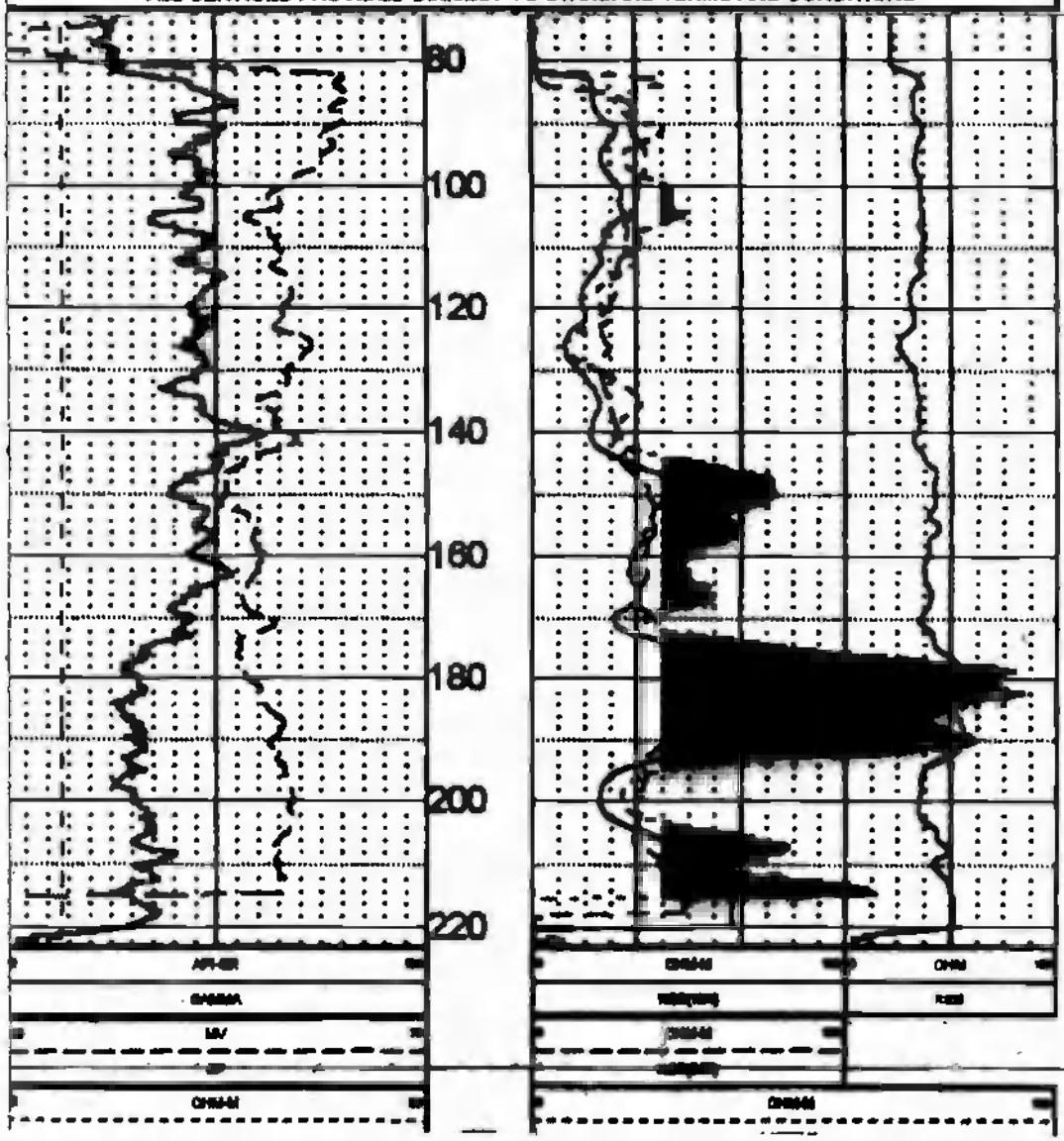
MAFB-461

COMPANY	: MAFB				
WELL	: MAFB-461				
LOCATION/FIELD	: SAC.				
COUNTY	: SACRAMENTO				
LOCATION	: CA.				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/09/09	PERMANENT DATUM	: GL		
DEPTH DRILLER	: 220FT			KB	: NA
LOG BOTTOM	: 222.40	LOG MEASURED FROM	: GL	DF	: NA
LOG TOP	: -0.10	DRL MEASURED FROM	: GL	GL	: NA
CASING DIAMETER	: 10.	LOGGING UNIT	: 1		
CASING TYPE	:	FIELD OFFICE	:		
CASING THICKNESS	:	RECORDED BY	: SHANHOLTZER		
BIT SIZE	: 12	BOREHOLE FLUID	: CLAYGEL	FILE	: ORIGINAL
MAGNETIC DECL.	: 15	RM	: .179	TYPE	: 8144A
MATRIX DENSITY	: 2.65	RM TEMPERATURE	: [illegible]	LGDATE	: [illegible]
NEUTRON MATRIX	: SANDSTONE	MATRIX DELTA T	: 56		
				THRESH	: 5000

OTHER SERVICES:
INVOICE
110909
D500

WATER QUALITY-,
WDC--. DRILLER

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



ATTACHMENT C

CHAIN OF CUSTODY FORMS AND LABORATORY ANALYTICAL REPORTS

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON
Name: MARK Frey
Phone #: 916-919-5383

FED EX #: 796082124716 Cooler #: 1 LOGCODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE: Michael Sperber

PROJECT NAME: TO-34
AIR FORCE ID: MATHER
PROJECT NUMBER: 19511.61.

SAMPLE DESCRIPTION	LOCID	SBD	SED	DATE	TIME	ERPIMS Codes SA	SN	SM	MC	Lot Control Number AB	EB	TB	CO	Sample Container BC	CT	PR	ANALYSIS REQUEST VOCs
PW-1-170-GW	Appl & MATHER			10/30	1445	N	1	B	WG	0	0	1	A	4	A	C	X
TB-1	MATHER			10/30	1100	N	1	B	WG	0	0	1	A	3	A	HL	X

Comments/Instructions:

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:	Michael Sperber		MWH/Geologist	10/30	1700
RECEIVED BY:		Stephanie Mangas	Appl Inc	10/31/09	12:50
RELINQUISHED BY:					
RECEIVED BY:			Appl. Inc	~~10/31/09~~	~~1246~~

For Lab Use Only: Sample Condition Upon Receipt: (W) 11/2/09

Legend
Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC) From ERPIMS Handbook
Bottle Count (BC): 1,2,3, etc.
Container Type (CT): B = Brass Sleeve, A = Amber Glass
G = Clear Glass, P = Plastic
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None,
A = HNO3, B = H2SO4, C = HCl,
D = NaOH

ORIGINAL: Send with sample (sign only in blue or black ink)
COPIES: Retained by Sampler, Sent to Office

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON
Name: Mark Frey
Phone #: 916-919-5783

FED EX #: 796086466743 Cooler #: LOGCODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Michael Sperber

PROJECT NAME: JO-34
AIR FORCE ID: MATHER
PROJECT NUMBER: 19511.61

SAMPLE DESCRIPTION	LOCID	SBD	SED	DATE	TIME	ERPIMS Codes SA	SN	SM	MC	Lot Control Number AB	EB	TB	CO	Sample Container BC	CT	PR	VOC's	ANALYSIS REQUEST
PW-1-190-GW	MATHER	0	0	11/2	1405	N	1	WS	WG	0	0	1	1	4	A	C	X	
TB-1	MATHER	0	0	11/2	900	N	1	WS	WG	0	0	1	1	3	A	C	X	

Comments/Instructions:

24 hour TAT

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		Michael Sperber	MWH / Geologist	11/3	
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:		Tom Vong	Appl Inc	11/3/09	1020

For Lab Use Only: Sample Condition Upon Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC) From ERPIMS Handbook
Bottle Count (BC): 1,2,3, etc.
Container Type (CT): B = Brass Sleeve, A = Amber Glass
G = Clear Glass, P = Plastic
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None,
A = HNO3, B = H2SO4, C = HCl,
D = NaOH

ORIGINAL: Send with sample (sign only in blue or black ink)

COPIES: Retained by Sampler. Sent to Office

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 195116. MATHER TO-34

ARF: 60224

Sample ID: PW-1-170-GW

APPL ID: AY07250

Sample Collection Date: 10/30/09

QCG: $86LMA-091102AS-138209

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	11/03/09	11/03/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	11/03/09	11/03/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	11/03/09	11/03/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	11/03/09	11/03/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	11/03/09	11/03/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	11/03/09	11/03/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	11/03/09	11/03/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	11/03/09	11/03/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	11/03/09	11/03/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	11/03/09	11/03/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	11/03/09	11/03/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	11/03/09	11/03/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	11/03/09	11/03/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	11/03/09	11/03/09
EPA 8260B	Trichloroethene	0.38 J	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	11/03/09	11/03/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	11/03/09	11/03/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	114	72-119		%	11/03/09	11/03/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	89.4	76-119		%	11/03/09	11/03/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	118 #	85-115		%	11/03/09	11/03/09
EPA 8260B	Surrogate: Toluene-D8 (S)	91.7	81-120		%	11/03/09	11/03/09

J = Estimated value.
# = Recovery (or RPD) is outside QC limits.
These results are preliminary and represent information available on 11/3/09 at 5:25pm

Quant Method: SMS10.M
Run #: 1102S30
Instrument: Sweetpea
Sequence: S091102
Dilution Factor: 1
Initials: GM

Printed: 11/03/09 5:25:21 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 195116. MATHER TO-34

ARF: 60224

Sample ID: PW-1-170-GW

APPL ID: AY07250

Sample Collection Date: 10/30/09

QCG: $86LMA-091102AS-138209

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date

J = Estimated value.
# = Recovery (or RPD) is outside QC limits.
These results are preliminary and represent information available on 11/3/09 at 5:25pm

Quant Method:	SMS10.M
Run #:	1102S30
Instrument:	Sweetpea
Sequence:	S091102
Dilution Factor:	1
Initials:	GM

Printed: 11/03/09 5:25:21 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey
Project: 195116. MATHER TO-34
Sample ID: TB-1
Sample Collection Date: 10/30/09

ARF: 60224
APPL ID: AY07251
QCG: $86LMA-091102AS-138209

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	11/03/09	11/03/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	11/03/09	11/03/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	11/03/09	11/03/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	11/03/09	11/03/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	11/03/09	11/03/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	11/03/09	11/03/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	11/03/09	11/03/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	11/03/09	11/03/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	11/03/09	11/03/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	11/03/09	11/03/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	11/03/09	11/03/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	11/03/09	11/03/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	11/03/09	11/03/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	11/03/09	11/03/09
EPA 8260B	Trichloroethene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	11/03/09	11/03/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	11/03/09	11/03/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	107	72-119		%	11/03/09	11/03/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	92.5	76-119		%	11/03/09	11/03/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	111	85-115		%	11/03/09	11/03/09
EPA 8260B	Surrogate: Toluene-D8 (S)	96.6	81-120		%	11/03/09	11/03/09

These results are preliminary and represent information available on 11/3/09 at 5:25pm

Quant Method: SMS10.M
Run #: 1102S28
Instrument: Sweetpea
Sequence: S091102
Dilution Factor: 1
Initials: GM

Printed: 11/03/09 5:25:21 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey
Project: 1951161 MATHER TO34
Sample ID: PW-1-190-GW
Sample Collection Date: 10/20/09

ARF: 60230
APPL ID: AY07283
QCG: $86LMA-091102AS-138209

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	11/03/09	11/03/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	11/03/09	11/03/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	11/03/09	11/03/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	11/03/09	11/03/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	11/03/09	11/03/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	11/03/09	11/03/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	11/03/09	11/03/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	11/03/09	11/03/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	11/03/09	11/03/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	11/03/09	11/03/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	11/03/09	11/03/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	11/03/09	11/03/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	11/03/09	11/03/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	11/03/09	11/03/09
EPA 8260B	Trichloroethene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	11/03/09	11/03/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	11/03/09	11/03/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	126 #	72-119		%	11/03/09	11/03/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	88.2	76-119		%	11/03/09	11/03/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	129 #	85-115		%	11/03/09	11/03/09
EPA 8260B	Surrogate: Toluene-D8 (S)	89.9	81-120		%	11/03/09	11/03/09

= Recovery (or RPD) is outside QC limits.
These results are preliminary and represent information available on 11/3/09 at 5:25pm

Quant Method: SMS10.M
Run #: 1102S31
Instrument: Sweetpea
Sequence: S091102
Dilution Factor: 1
Initials: GM

Printed: 11/03/09 5:25:21 PM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 1951161 MATHER TO34

ARF: 60230

Sample ID: PW-1-190-GW

APPL ID: AY07283

Sample Collection Date: 10/20/09

QCG: $86LMA-091102AS-138209

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date

= Recovery (or RPD) is outside QC limits.
These results are preliminary and represent information available on 11/3/09 at 5:25pm

Quant Method:	SMS10.M
Run #:	1102S31
Instrument:	Sweetpea
Sequence:	S091102
Dilution Factor:	1
Initials:	GM

Printed: 11/03/09 5:25:21 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey
Project: 1951161 MATHER TO34
Sample ID: TB-1
Sample Collection Date: 10/20/09

ARF: 60230
APPL ID: AY07284
QCG: $86LMA-091102AS-138209

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	11/03/09	11/03/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	11/03/09	11/03/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	11/03/09	11/03/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	11/03/09	11/03/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	11/03/09	11/03/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	11/03/09	11/03/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	11/03/09	11/03/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	11/03/09	11/03/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	11/03/09	11/03/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	11/03/09	11/03/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	11/03/09	11/03/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	11/03/09	11/03/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	11/03/09	11/03/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	11/03/09	11/03/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	11/03/09	11/03/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	11/03/09	11/03/09
EPA 8260B	Trichloroethene	Not detected	0.5	0.16	ug/L	11/03/09	11/03/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	11/03/09	11/03/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	11/03/09	11/03/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	11/03/09	11/03/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	114	72-119		%	11/03/09	11/03/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	89.5	76-119		%	11/03/09	11/03/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	115	85-115		%	11/03/09	11/03/09
EPA 8260B	Surrogate: Toluene-D8 (S)	94.7	81-120		%	11/03/09	11/03/09

These results are preliminary and represent information available on 11/3/09 at 5:25pm

Quant Method: SMS10.M
Run #: 1102S29
Instrument: Sweetpea
Sequence: S091102
Dilution Factor: 1
Initials: GM

Printed: 11/03/09 5:25:21 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7930 6203 9704 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE
Shawn Broughman

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-436	MAFB-436	0	0	12/1/2009	1040	N	1	BP	WG	0	0	1	A	3	G	C				X								
MAFB-436	MAFB-436	0	0	12/1/2009	1040	N	1	BP	WG	0	0	1	A	2	A	NA					X							
MAFB-436	MAFB-436	0	0	12/1/2009	1040	N	1	BP	WG	0	0	1	A	3	G	C	X											
MAFB-461(Bd)	MAFB-461Bd	0	0	12/1/2009	906	N	1	DF	WG	0	0	1	A	3	G	C	X											
MAFB-461(Bs)	MAFB-461Bs	0	0	12/1/2009	946	N	1	DF	WG	0	0	1	A	3	G	C	X											
MBS-MW-1	MBS-MW-1	0	0	12/1/2009	1350	N	1	BP	WG	0	0	1	A	3	G	C				X								
MBS-MW-1	MBS-MW-1	0	0	12/1/2009	1350	N	1	BP	WG	0	0	1	A	3	G	C	X											

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	12/1/2009	1410
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

MWH

CHAIN OF CUSTODY RECORD

MWH CONTACT PERSON:
Mark Frey (916) 418-8390

FED EX#: 7981 7849 3728 COOLER#: A LOG CODE: MWWC LAB: APPL

SAMPLER(S) PRINTED NAME AND SIGNATURE

Shawn Broughman

PROJECT NAME: MAFB-MBS-4Q09
AIR FORCE ID: MAFB
PROJECT NUMBER: 1951161.34010801

SAMPLE DESCRIPTION	LOC ID	SBD	SED	DATE	TIME	ERPIMS CODES SA	SN	SM	MC	LOT CONTROL AB	EB	TB	CO	BC	CT	PR	ANALYSIS REQUEST HVOCs (long)	HVOCs (short)	BTEX	TPH-Gas	TPH-Diesel	Lead (Diss.)	Gen Min 1	1,4-Dioxane	LF Metals (Diss.)	Sulfide	LF Gen Min	Perchlorate	TSS
MAFB-460(Bd)	MAFB-460Bd	0	0	11/30/2009	1132	N	1	DF	WG	0	0	1	A	3	G	C	X												
MAFB-460(Bs)	MAFB-460Bs	0	0	11/30/2009	1302	N	1	DF	WG	0	0	1	A	3	G	C	X												
MBS-MW-3	MBS-MW-3	0	0	11/30/2009	1230	N	1	BP	WG	0	0	1	A	3	G	C	X												

Comments/Instructions:
MBS PTE AF 1 week TAT on VOCs only!
Gen Min 1: TDS (E160.1); alkalinity-total, bicarbonate, carbonate, hydroxide (SM2320); chloride, nitrate, sulfate (E300.0); hardness (E130.2).
LF Metals: Sb, Ba, Be, Cd, Cr, Co, Cu, Mn, Ni, Ag, V, Zn, As, Pb, Se (SW6010); Hg (SW7470); Tl (SW7841).
All LF Metals samples are field filtered!

	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RELINQUISHED BY:		ROY FOSTER	MWH	11/30/2009	1400
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

For Lab Use Only: Sample Condition on Receipt:

Legend

Lot Control Number: From ERPIMS Handbook
Log Code: From ERPIMS Handbook
Lab Code: From ERPIMS Handbook
Sample Type Code (SA): From ERPIMS Handbook
Sample Number (SN): From ERPIMS Handbook (1,2,3, etc.)
Sampling Method Code (SM) From ERPIMS Handbook
Sampling Matrix Code (MC): From ERPIMS Handbook
Container Type (CT): B = Brass Sleeve, A = Amber Glass, G = Clear Glass, P = Plastic
Bottle Count (BC): 1,2,3, etc.
SBD: Sample Beginning Depth
SED: Sample Ending Depth
Preservative (PR): NA = None, A = HNO3, B = H2SO4, C = HCl, D = NaOH

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey
Project: 1951161.34010801 MAFB-MBS-4Q09
ARF: 60424
Sample ID: MAFB-436
APPL ID: AY08356
Sample Collection Date: 12/01/09
QCG: $86LMA-091203AN-139119

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	12/04/09	12/04/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	12/04/09	12/04/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	12/04/09	12/04/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	12/04/09	12/04/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	12/04/09	12/04/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	12/04/09	12/04/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	12/04/09	12/04/09
EPA 8260B	Chloroform	0.25 J	0.5	0.07	ug/L	12/04/09	12/04/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	12/04/09	12/04/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	12/04/09	12/04/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	12/04/09	12/04/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	12/04/09	12/04/09
EPA 8260B	Tetrachloroethene	4.3	0.5	0.15	ug/L	12/04/09	12/04/09
EPA 8260B	Toluene	1.7	1.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	12/04/09	12/04/09
EPA 8260B	Trichloroethene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	12/04/09	12/04/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	12/04/09	12/04/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	95.3	72-119		%	12/04/09	12/04/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	88.6	76-119		%	12/04/09	12/04/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	99.2	85-115		%	12/04/09	12/04/09
EPA 8260B	Surrogate: Toluene-D8 (S)	108	81-120		%	12/04/09	12/04/09

J = Estimated value.

Quant Method: NMS10.M
Run #: 1203N23
Instrument: Neo
Sequence: N091203
Dilution Factor: 1
Initials: GM

Printed: 12/21/09 8:16:13 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

TPH - Gasoline

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 1951161.34010801 MAFB-MBS-4Q09

ARF: 60424

Sample ID: MAFB-436

APPL ID: AY08356

Sample Collection Date: 12/01/09

QCG: $GMAFB-091208A-139207

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
SW 8015B	TPH as Gasoline (C6-C10)	Not detected	50.0	8.60	ug/L	12/08/09	12/08/09
SW 8015B	Surrogate: BFB-FID (S)	86.5	75-125		%	12/08/09	12/08/09

Quant Method: HBTXGM.M
Run #: 1208H07
Instrument: Harpo
Sequence: 091017
Dilution Factor: 1
Initials: LF

Printed: 12/21/09 8:16:13 AM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

TPH Diesel (W) - MW - Mather

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 1951161.34010801 MAFB-MBS-4Q09

ARF: 60424

Sample ID: MAFB-436

APPL ID: AY08356

Sample Collection Date: 12/01/09

QCG: $TDMW-091202B-139137

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
SW8015B-e	TPH as Diesel (C10-C28)	Not detected	50.0	40.40	ug/L	12/02/09	12/03/09
SW8015B-e	Surrogate: Octacosane (S)	87.3	26-152		%	12/02/09	12/03/09
SW8015B-e	Surrogate: Ortho-Terphenyl (S)	84.4	57-132		%	12/02/09	12/03/09

Quant Method: TPHD1201.M
Run #: 1201084
Instrument: Apollo
Sequence: 091201
Dilution Factor: 1
Initials: STC

Printed: 12/21/09 8:16:13 AM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey
Project: 1951161.34010801 MAFB-MBS-4Q09
ARF: 60424
Sample ID: MBS-MW-1
APPL ID: AY08359
Sample Collection Date: 12/01/09
QCG: $86LMA-091203AN-139119

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	12/04/09	12/04/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	12/04/09	12/04/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	12/04/09	12/04/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	12/04/09	12/04/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	12/04/09	12/04/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	12/04/09	12/04/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	12/04/09	12/04/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	12/04/09	12/04/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	12/04/09	12/04/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	12/04/09	12/04/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	12/04/09	12/04/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	12/04/09	12/04/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	12/04/09	12/04/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	12/04/09	12/04/09
EPA 8260B	Trichloroethene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	12/04/09	12/04/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	12/04/09	12/04/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	92.5	72-119		%	12/04/09	12/04/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	86.2	76-119		%	12/04/09	12/04/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	97.7	85-115		%	12/04/09	12/04/09
EPA 8260B	Surrogate: Toluene-D8 (S)	116	81-120		%	12/04/09	12/04/09

Quant Method: NMS10.M
Run #: 1203N19
Instrument: Neo
Sequence: N091203
Dilution Factor: 1
Initials: GM

Printed: 12/21/09 8:16:13 AM
APPL-F1-SC-MCRes/MCPQL-REG MDLs

TPH - Gasoline

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 1951161.34010801 MAFB-MBS-4Q09

ARF: 60424

Sample ID: MBS-MW-1

APPL ID: AY08359

Sample Collection Date: 12/01/09

QCG: $GMAFB-091208A-139207

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
SW 8015B	TPH as Gasoline (C6-C10)	Not detected	50.0	8.60	ug/L	12/08/09	12/08/09
SW 8015B	Surrogate: BFB-FID (S)	87.3	75-125		%	12/08/09	12/08/09

Quant Method: HBTXGM.M
Run #: 1208H05
Instrument: Harpo
Sequence: 091017
Dilution Factor: 1
Initials: LF

Printed: 12/21/09 8:16:14 AM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 1951161.34010801 MAFB-MBS-4Q09

ARF: 60418

Sample ID: MAFB-460(Bd)

APPL ID: AY08329

Sample Collection Date: 11/30/09

QCG: $86LMA-091201AN-138985

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	12/02/09	12/02/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	12/02/09	12/02/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	12/02/09	12/02/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	12/02/09	12/02/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	12/02/09	12/02/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	12/02/09	12/02/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	12/02/09	12/02/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	12/02/09	12/02/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	12/02/09	12/02/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	12/02/09	12/02/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	12/02/09	12/02/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	12/02/09	12/02/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	12/02/09	12/02/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	12/02/09	12/02/09
EPA 8260B	Trichloroethene	0.29 J	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	12/02/09	12/02/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	12/02/09	12/02/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	99.9	72-119		%	12/02/09	12/02/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	97.6	76-119		%	12/02/09	12/02/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	96.6	85-115		%	12/02/09	12/02/09
EPA 8260B	Surrogate: Toluene-D8 (S)	113	81-120		%	12/02/09	12/02/09

J = Estimated value.
These results are preliminary and represent information available on 12/2/09 at 4:2pm

Quant Method: NMS10.M
Run #: 1201N22
Instrument: Neo
Sequence: N091201
Dilution Factor: 1
Initials: GM

Printed: 12/02/09 4:02:29 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 1951161.34010801 MAFB-MBS-4Q09

ARF: 60418

Sample ID: MAFB-460(Bs)

APPL ID: AY08330

Sample Collection Date: 11/30/09

QCG: $86LMA-091201AN-138985

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	12/02/09	12/02/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	12/02/09	12/02/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	12/02/09	12/02/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	12/02/09	12/02/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	12/02/09	12/02/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	12/02/09	12/02/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	12/02/09	12/02/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	12/02/09	12/02/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	12/02/09	12/02/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	12/02/09	12/02/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	12/02/09	12/02/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	12/02/09	12/02/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	12/02/09	12/02/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	12/02/09	12/02/09
EPA 8260B	Trichloroethene	3.7	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	12/02/09	12/02/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	12/02/09	12/02/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	101	72-119		%	12/02/09	12/02/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	92.3	76-119		%	12/02/09	12/02/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	98.2	85-115		%	12/02/09	12/02/09
EPA 8260B	Surrogate: Toluene-D8 (S)	106	81-120		%	12/02/09	12/02/09

These results are preliminary and represent information available on 12/2/09 at 4:2pm

Quant Method: NMS10.M
Run #: 1201N23
Instrument: Neo
Sequence: N091201
Dilution Factor: 1
Initials: GM

Printed: 12/02/09 4:02:29 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 1951161.34010801 MAFB-MBS-4Q09

ARF: 60418

Sample ID: MBS-MW-3

APPL ID: AY08331

Sample Collection Date: 11/30/09

QCG: $86LMA-091201AN-138985

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	12/02/09	12/02/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	12/02/09	12/02/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	12/02/09	12/02/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	12/02/09	12/02/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	12/02/09	12/02/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	12/02/09	12/02/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	12/02/09	12/02/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	12/02/09	12/02/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	12/02/09	12/02/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	12/02/09	12/02/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	12/02/09	12/02/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	12/02/09	12/02/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	12/02/09	12/02/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	12/02/09	12/02/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	12/02/09	12/02/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	12/02/09	12/02/09
EPA 8260B	Trichloroethene	Not detected	0.5	0.16	ug/L	12/02/09	12/02/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	12/02/09	12/02/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	12/02/09	12/02/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	12/02/09	12/02/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	98.6	72-119		%	12/02/09	12/02/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	95.7	76-119		%	12/02/09	12/02/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	98.2	85-115		%	12/02/09	12/02/09
EPA 8260B	Surrogate: Toluene-D8 (S)	117	81-120		%	12/02/09	12/02/09

These results are preliminary and represent information available on 12/2/09 at 4:2pm

Quant Method: NMS10.M
Run #: 1201N20
Instrument: Neo
Sequence: N091201
Dilution Factor: 1
Initials: GM

Printed: 12/02/09 4:02:29 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey
Project: 1951161.34010801 MAFB-MBS-4Q09
ARF: 60433
Sample ID: MAFB-461(Bd)
APPL ID: AY08357
Sample Collection Date: 12/01/09
QCG: $86LMA-091203AN-139119

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	12/04/09	12/04/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	12/04/09	12/04/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	12/04/09	12/04/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	12/04/09	12/04/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	12/04/09	12/04/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	12/04/09	12/04/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	12/04/09	12/04/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	12/04/09	12/04/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	12/04/09	12/04/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	12/04/09	12/04/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	12/04/09	12/04/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	12/04/09	12/04/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	12/04/09	12/04/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	12/04/09	12/04/09
EPA 8260B	Trichloroethene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	12/04/09	12/04/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	12/04/09	12/04/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	104	72-119		%	12/04/09	12/04/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	83.3	76-119		%	12/04/09	12/04/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	105	85-115		%	12/04/09	12/04/09
EPA 8260B	Surrogate: Toluene-D8 (S)	113	81-120		%	12/04/09	12/04/09

These results are preliminary and represent information available on 12/4/09 at 5:5pm

Quant Method: NMS10.M
Run #: 1203N25
Instrument: Neo
Sequence: N091203
Dilution Factor: 1
Initials: GM

Printed: 12/04/09 5:05:22 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8260B

MWH Americas Inc.
3321 Power Inn Rd. Suite 300
Sacramento, CA 95826

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Mark Frey

Project: 1951161.34010801 MAFB-MBS-4Q09

ARF: 60433

Sample ID: MAFB-461(Bs)

APPL ID: AY08358

Sample Collection Date: 12/01/09

QCG: $86LMA-091203AN-139119

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1-Trichloroethane	Not detected	1.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	1.0	0.10	ug/L	12/04/09	12/04/09
EPA 8260B	1,1,2-Trichloroethane	Not detected	1.0	0.20	ug/L	12/04/09	12/04/09
EPA 8260B	1,1-Dichloroethane	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	1,1-Dichloroethene	Not detected	0.5	0.30	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichlorobenzene	Not detected	2.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichloroethane	Not detected	0.5	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	1,2-Dichloropropane	Not detected	1.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	1,3-Dichlorobenzene	Not detected	3.0	0.11	ug/L	12/04/09	12/04/09
EPA 8260B	1,4-Dichlorobenzene	Not detected	0.5	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Benzene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	Bromodichloromethane	Not detected	1.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	Bromoform	Not detected	2.0	0.14	ug/L	12/04/09	12/04/09
EPA 8260B	Bromomethane	Not detected	10.0	0.24	ug/L	12/04/09	12/04/09
EPA 8260B	Carbon tetrachloride	Not detected	0.5	0.10	ug/L	12/04/09	12/04/09
EPA 8260B	Chlorobenzene	Not detected	2.5	0.21	ug/L	12/04/09	12/04/09
EPA 8260B	Chloroethane	Not detected	5.0	0.21	ug/L	12/04/09	12/04/09
EPA 8260B	Chloroform	Not detected	0.5	0.07	ug/L	12/04/09	12/04/09
EPA 8260B	Chloromethane	Not detected	0.5	0.31	ug/L	12/04/09	12/04/09
EPA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	cis-1,3-Dichloropropene	Not detected	1.0	0.15	ug/L	12/04/09	12/04/09
EPA 8260B	Dibromochloromethane	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Dichlorodifluoromethane	Not detected	4.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Ethyl benzene	Not detected	1.0	0.23	ug/L	12/04/09	12/04/09
EPA 8260B	Methylene chloride	Not detected	2.0	0.35	ug/L	12/04/09	12/04/09
EPA 8260B	Tetrachloroethene	Not detected	0.5	0.15	ug/L	12/04/09	12/04/09
EPA 8260B	Toluene	Not detected	1.0	0.17	ug/L	12/04/09	12/04/09
EPA 8260B	trans-1,2-Dichloroethene	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	trans-1,3-Dichloropropene	Not detected	1.0	0.18	ug/L	12/04/09	12/04/09
EPA 8260B	Trichloroethene	Not detected	0.5	0.16	ug/L	12/04/09	12/04/09
EPA 8260B	Trichlorofluoromethane	Not detected	1.0	0.24	ug/L	12/04/09	12/04/09
EPA 8260B	Vinyl chloride	Not detected	0.5	0.23	ug/L	12/04/09	12/04/09
EPA 8260B	Xylenes, Total	Not detected	1.0	0.19	ug/L	12/04/09	12/04/09
EPA 8260B	Surrogate: 1,2-Dichloroethane-d4 (S)	94.8	72-119		%	12/04/09	12/04/09
EPA 8260B	Surrogate: 4-Bromofluorobenzene (S)	88.9	76-119		%	12/04/09	12/04/09
EPA 8260B	Surrogate: Dibromofluoromethane (S)	100	85-115		%	12/04/09	12/04/09
EPA 8260B	Surrogate: Toluene-D8 (S)	117	81-120		%	12/04/09	12/04/09

These results are preliminary and represent information available on 12/4/09 at 5:5pm

Quant Method: NMS10.M
Run #: 1203N24
Instrument: Neo
Sequence: N091203
Dilution Factor: 1
Initials: GM

Printed: 12/04/09 5:05:22 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

ATTACHMENT D

NON-HAZARDOUS WASTE MANIFESTS

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR: AIR FORCE REAL PROPERTY AGENCY

MAILING ADDRESS: 3411 OLSON STREET

CITY, STATE, ZIP: MCCLELLAN CA 95652

PHONE: 916-643-0850 ext 230

CONTACT PERSON: MICHAEL SWART

SIGNATURE OF AUTHORIZED AGENT / TITLE: *Michael Swart / ENVIRONMENTAL PROTECTION SPECIALIST

DATE: 1 MAR 10

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations, AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261

WASTE TYPE: SOIL and BENTONITE

- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

GENERATING FACILITY

WASTE ACCEPTANCE NO.: -9442

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

☒ GLOVES ☒ GOGGLES ☐ RESPIRATOR ☒ HARD HAT ☐ TY-VEK ☒ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER: DELTA OIL Field SERVICE

ADDRESS: 1201 EAST KENTUCKY AVENUE

CITY, STATE, ZIP: Woodland CA 95776

PHONE: 530-662-2841

SIGNATURE OF AUTHORIZED AGENT OR DRIVER: *

DATE: 3-3-10

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER
5C18100	40

END DUMP	BOTTOM DUMP	TRANSFER
☒	☐	☐

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
☒	☐	☐	☐

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT: *

DATE: 3/3/10

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
☐ SOIL		
☐ CONSTRUCTION DEBRIS		
☐ NON-FRIABLE ASBESTOS		
☐ WOOD		
☐ ASH		
☐ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES ECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

MANIFEST # 00013

APPENDIX M

RESPONSE TO COMMENTS

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentor	Section	Page	Other	Comment	Air Force Response
GENERAL	1	CVWB	Marcus Pierce				Revise the Draft Annual Report to provide an estimate of the percent plume capture provided by the pump and treat remedies operating in the Site 7, AC&W, and the Main Base/SAC Area plumes during 2009. If additional monitoring wells are needed to reliably estimate capture, then revise the Draft Annual Report to include recommendations to install these new monitoring wells in 2010 and begin providing numerical estimates of capture in future Annual Reports.	The Air Force will take this recommendation under consideration for future annual reports.

Mather AR # 2970.1 Page 1053 of 1088

Comment Type	Comment No	Comment By	Commentor	Section	Page	Other	Comment	Air Force Response
								protective of human health and the environment. There have been ten downgradient receptor wells (OFB-40 through OFB-48, and OFB-53) that are located along Jackson Hwy that have been sampled annually by the Air Force. Three of the wells (OFB-42, OFB-44 and OFB-45) are abandoned, and OFB-41 no longer operates. More than 110 water samples have been collected from these wells since 1997. There have been no confirmed detections of VOCs during the sampling conducted during remedial action monitoring. All of the operating downgradient receptor wells are included in the Mather Annual Sampling Plan and will continue to be sampled annually for protectiveness.

Mather AR # 2970.1 Page 1054 of 1088

Comment Type	Comment No	Comment By	Commentor	Section	Page	Other	Comment	Air Force Response
								in MAFB-457Bs but is not detected in MAFB-457Bd). Note that this clay aquitard continues downgradient to well MAFB-460 where TCE is not present above cleanup levels. Based on these data, the Air Force believes that there is no evidence to suggest that the vertical extent of the TCE MCL volume extends to Unit D.

Mather AR # 2970.1 Page 1055 of 1088

Comment Type	Comment No	Comment By	Commentor	Section	Page	Other	Comment	Air Force Response
								contaminant concentrations in the remaining 100-foot interval of overbank deposits above the Mehrten, without the significant expense of installing new wells to prove the point. In addition, any contaminants vertically migrating into the Mehrten gravels will be immediately diluted by the much greater volume of flow through the transmissive gravels of the Mehrten. Please also note that as of this writing, and based on results from the second quarter 2010, PCE and carbon tetrachloride concentrations have declined to below cleanup levels in LMT well MAFB-430 (PCE- 3.1 and CCl_4 – ND), so the vertical extent of the MCL volume for both COCs *is* now defined between the screen zones of well MBS-PZ-51 and MAFB-430 in this area Finally, the Air Force has installed guard wells adjacent to the closest supply wells to the plume. Samples from the guard wells are analyzed quarterly for VOCs to ensure advanced warning should contaminants migrate to the vicinity of the supply wells in order that appropriate protective measures may be taken prior to contaminants reaching the supply wells at concentrations in excess of the drinking water standards.
GENERAL	5	CVWB	Marcus Pierce				Central Valley Water Board staff concur with the proposed shutdown of extraction well EW-1Bu in the Main Base/SAC Area plume.	Comment noted.

Mather AR # 2970.1 Page 1056 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentor	Section	Page	Other	Comment	Air Force Response
SPECIFIC	1	CVWB	Marcus Pierce	Executive Summary	ES-8		The last paragraph on this page states that no "notable" VOC detections were reported in private wells. This is a nebulous description of the private well sampling results that is open to interpretation. For clarity, this paragraph as well as the corresponding paragraphs in Sections 7 and 9 should be revised to provide a comparison of the 2009 sampling results to applicable water quality objectives. Any observed increasing or decreasing trends in the supply wells should be also discussed in the Final Annual Report.	The text has been modified to read: "VOC detections in other privately-owned wells that have been sampled annually were consistent with historical results. All detections were below respective MCLs for detected constituents".
SPECIFIC	2	CVWB	Marcus Pierce	2.6	2-9		The first paragraph of this section states Cal Am did not provide monthly flow data from their supply wells to the Air Force in 2009. The Air Force should continue to pursue this information and include it in the Final Annual Report.	Cal Am has provided flow data to the Air Force and it is being included in the Final version of the report.
SPECIFIC	3	CVWB	Marcus Pierce	3.3.1	3-7		Table 3-3 indicates concentrations of PCE in well MAFB-132 ranged from 14M to 20 µg/L in 2009, so revise "11M" to "14M" in the first paragraph on this page.	The change has been made.
SPECIFIC	4	CVWB	Marcus Pierce	4.2.2	4-5		In the second paragraph on this page revise "Figure 4-2" to "Figure 4-1".	The change has been made.

Mather AR # 2970.1 Page 1057 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentor	Section	Page	Other	Comment	Air Force Response
SPECIFIC	5	CVWB	Marcus Pierce	4.3	4-6		The Draft Annual Report proposes to place wells ACW PZ-05 and MAFB-433 on reserve status in 2010, but there are no other C-unit monitoring wells immediately south/southwest of the plume centered on well ACW-EW-6R. Please continue sampling well ACW PZ-05 on a biennial basis and incorporate this change in the 2011 Groundwater Monitoring Program document.	This recommendation will be considered when preparing the 2011 groundwater monitoring plan.

Mather AR # 2970.1 Page 1058 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentor	Section	Page	Other	Comment	Air Force Response
SPECIFIC	7	CVWB	Marcus Pierce	7.2	7-3		The current detections of TCE in private supply wells OFB-7 (3.7 µg/L) and OFB-12 (3.2 µg/L) are more than half the MCL. Revise this section to include a brief discussion of how these wells are currently utilized (do they still supply drinking water?) and whether any drinking water supply replacement alternatives (installation of wellhead treatment or a replacement well, provision of bottled water,...etc.) were implemented in the past. Also, there are several private wells that had historical VOC concentrations that exceeded MCLs, so briefly describe the actions that were taken to protect these well owners.	A note was added stating that none of the wells listed in the Happy Lane and Old Placerville Road vicinity are used for potable water supply; in the 1980's the Air Force paid Citizens Utilities Company of California (now Cal Am) to install a water main to serve those well owners. Notes were also added to the bullets for OFB-7, OFB-12, and OFB-24 describing their water use.
SPECIFIC	8	CVWB	Marcus Pierce			Figure 2-1	Add monitoring well MAFB-435 to this figure.	The well has been added.

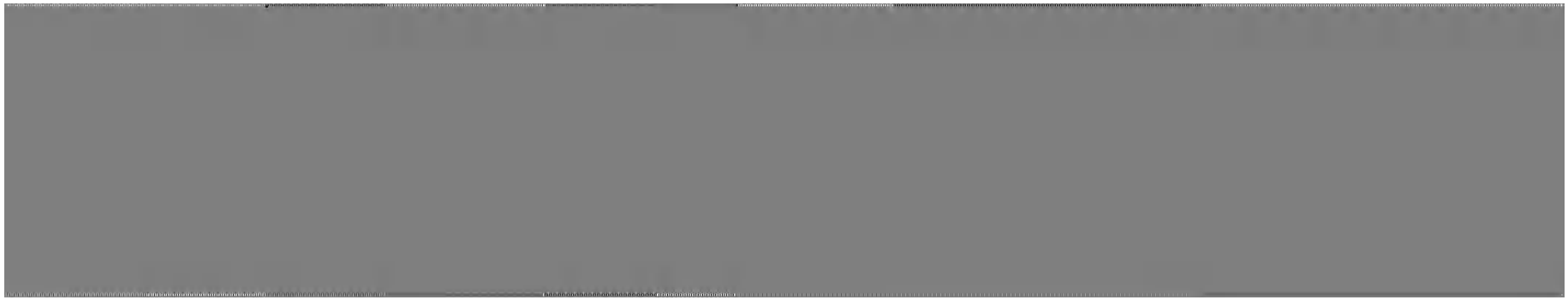
Mather AR # 2970.1 Page 1059 of 1088

Comment Type	Comment No	Comment By	Commentor	Section	Page	Other	Comment	Air Force Response
								time has been approximately 8.4. As such, and In general, the pH of the receiving water is higher than the discharged water. The 2009 pH results for the effluent and at R-2 are not anomalous. While the Air Force has regarded the NPDES permit as unenforceable under CERCLA (for reference see the ESD to allow discharge of treated water to Mather Lake and its attachments [AFBCA, 1997]), the ESD did identify that discharge must meet water quality requirements in the ARARs. Among the Federal ARARs cited in the ESD is the Clean Water Act; note that there is no Federal primary MCL for pH, but a secondary MCL for pH is given as a range of 6.5 to 8.5. The State ARARs cited in the ESD include the Porter-Cologne Water Quality Control Act, which includes the Central Valley Regional Water Quality Control Board Basin Plan and the State Water Resources Control Board Resolution 88-63; the Central Valley Basin Plan water quality objectives for inland surface waters states that the pH shall not be depressed below 6.5 nor raised above 8.5. While the pH of the effluent water was slightly above the secondary MCL on two occasions in 2009, the pH in Mather Lake (at the R-2 sampling location) was not above 8.5. The results are consistent with historical results as noted above. The Air Force is not planning any further action at this time.

Mather AR # 2970.1 Page 1060 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
GENERAL		DTSC	Jeff Brown				The primary issues which should be addressed in the next version of the 2009 annual report are as follows: • Datagaps in the D zone tetrachloreoethene (PCE) and carbon tetrachloride (CCl_4) plumes in Area 1; • A lack of capture in the southwestern lobe of the trichloroethene (TCE) plume; • Unknown screen intervals for off-base water supply wells west of the Main Base TCE plume; • A lack of capture in the Site 7 TCE plume; and • Uncertainty in the source of chromium (Cr) and nickel (Ni) in groundwater near landfill 4 (LF-04) Additional information on these issues is described in the following general comments.	Comments noted. Responses are provided for the ensuing general comments. See also Responses to CVWB general comments 2, 3, and 4.



Mather AR # 2970.1 Page 1061 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							will serve to diminish concentrations of COCs in groundwater in this area, there currently exist no means to verify this in the field. Moreover, reliance on dilution or other natural attenuation processes is currently not a component of the 1996 record of decision (ROD) (AFBCA, 1996). Two D zone monitoring wells should be installed adjacent to Area 1 of the Main Base plume to verify PCE and CCl4 concentrations have attenuated at depth and address datagaps. The Air Force should consider installation of both wells to occur adjacent to MBS-PZ-38 with target screen depths ranging between -180 to -220 and -260 to -300 feet mean sea level (msl). Analytical data from both wells are needed to (1) establish plume extent and depth for the downgradient toe of the PCE plume (which is unknown at these depths, refer to cross section M-1 in the 2008 annual report); (2) confirm plume stability; and (3) serve as guard wells for offsite water supply wells OFB-22, OFB-23, and OFB-24 which are located at the inferred outer edge of the PCE plume (but whose well screen data	As such, there is no need to install guard wells. These three addresses get potable water from Cal Am. OFB-22 went dry after sampling in 2000. OFB-23 has not been operable since the residents disconnected the power after the 1995 sampling event. OFB-24 is used for irrigation, and has been sampled annually starting in 1994. CVWB sampled it routinely in the 1980's.

Mather AR # 2970.1 Page 1062 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							are unknown). In the absence of these data it is unclear whether the existing pump and treat (P&T) system is capable of meeting ROD requirements or requires augmentation. And, should the Air Force be considering monitored natural attenuation (MNA) as a formal component of the ROD in the future, it is anticipated that data from these wells (in particular a demonstration of plume stability) will be ultimately be needed to illustrate the remedial efficacy of MNA.	

Mather AR # 2970.1 Page 1063 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							(OPS), Main Base SAC Area Plume report.	
[redacted]								

Mather AR # 2970.1 Page 1064 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
								well OFB-07 at 3.7 µg/L, which is below the MCL. Following is additional information known about these and other private supply wells: OFB-7 is believed to be a B-zone well; the well owner thinks it's about 150 feet deep. It is used for irrigation and fish ponds. OFB-8 served hoses at some auto repair businesses. OFB-9 was not working as of 2Q10 sampling but was used for steam cleaning at an auto dismantlers business. OFB-11 was used to serve a home but that home was converted to a business and the landscaping was largely removed; the well is non operational. OFB-12 is used for irrigation at the Gedatsu church. OFB-17 runs to some hose spigots at a residence; it is not known how much it's used, but it's only used for irrigation. Finally, it is important to note the siltation ponds west of Happy Lane in this area have a significant influence on the plume in this area. As shown on water table potentiometric surfaces, the ponds create a northeast to southwest groundwater mounding effect extending from the vicinity of MBS EW-3Bu to MAFB-259.

Mather AR # 2970.1 Page 1065 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
GENERAL	4	DTSC	Jeff Brown				Site 7 Plume Extent and Capture. The downgradient extent of the TCE plume is not bounded south and west of MW-448 and this area of the plume is not captured, as indicated by modeling. For additional details and recommendations regarding this topic please refer to GSU General Comment #1 in the April 8th, 2010 memorandum for the *Draft Demonstration of Groundwater Operable Unit Remedial Action Operating Properly and Successfully (OPS), Site 7 Groundwater Plume* report.	The Air Force is not considering additional wells at Site 7 at this time, and recommendations for additional wells are not included in the annual report. Please see the response to CVWB General Comment No 2 for detailed rationale. The Final version of the Site 7 OPS report demonstrates that lack of complete definition of the toe of the plume does not constitute a significant data gap, and that and potentiometric surface data updated through the fourth quarter 2009 shows that this area does lie within the capture zone of well 7-EW-01.

Mather AR # 2970.1 Page 1066 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							MW-112) are the latest in a second 'slug' of increasing concentrations which began in 2007 and appear to be continuing. Section 3.4.1 does not identify this trend or discuss potential causes, such as leaching of metals from LF-04.	
							Recent increasing trends in Cr and Ni and the spatial distribution of elevated Cr and Ni (found preferentially in wells downgradient of LF-04) introduces uncertainty on the conclusion that these constituents originate from corrosion of stainless steel well screens. For example, well corrosion effects should result in a relatively constant flux of metals into groundwater over time versus cyclical 'slugs' of contamination separated by long periods (2001 to 2007) of low concentrations of Cr an Ni. And, if well corrosion is the source for elevated Cr and Ni why do we not see other wells with stainless steel screens with similarly high concentrations? Instead the highest concentrations of Cr and Ni are found immediately downgradient of LF-04 (in MW-132 and MW-136).	The Air Force disagrees with this assessment. Again, the text does not state that the Air Force believes that the source of Ni is from the screens. However, elevated Cr concentrations have been demonstrated to be associated with proximity to stainless steel well screens at both LF06 and LF04. Both studies have been presented and the conclusions reviewed. As shown on Figure 3-2, the cyclical, slug-like patterns of Cr detections are not consistent and are often random. Given that Cr has been shown to be associated with stainless steel well screens, this counters the hypothesis that corrosion effects should result in a constant flux of metals over time. In fact, it is just likely that corrosion rates are not linear in a groundwater setting where there may be variable pH, redox conditions, gradients, groundwater flux through well screens, dewatering and rewetting, etc. There are too many unknown variables to assume constant flux of metals – whether the source is from the screens or the landfills. Why
							The uncertainty with respect to the source of Cr and Ni warrants additional discussion	

Mather AR # 2970.1 Page 1067 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							in the annual report and additional investigation in the field. The following recommendations are made to address each: • Section 3.4.1 should be revised to include discussion of (1) the cyclical nature of Cr and Ni concentration trends in MW-132 and MW-136; (2) the potential causes of recent increases, and (3) the fact that the Ni concentrations in MW-132 (622 µg/L in 2Q09) were the highest detected in this well since sampling began in 1997; • The executive summary, section 3.4.1, and section 9 should be revised to indentify LF-04 as a potential source of both Cr and Ni based on the temporal and spatial concentration trends of each; • Sampling frequencies recommended in Section 3.5 should be revised. Wells MW-132, MW-136, MW-140, MW-112, and MW-400, should be sampled quarterly for both Cr and Ni and any groundwater corrosivity indicators deemed appropriate (e.g. chloride	other wells with stainless steel screens don't show similar Cr concentrations is not known, but it could just as well be that screens are corroding at different rates or at different times. All wells at Mather with stainless steel screens are not being sampled for Cr so the association with the landfills may appear stronger than it may in fact be. A description of the cyclical and/or slug like nature of the recent data has been added to the text, as well as reference to the all-time high for Ni in well MAFB-136. However, the causes of the recent increases are unknown; any discussion in the text would be speculative. Potential causes of the recent increases will not be discussed. The text has been revised to identify LF-04 as a potential source of Ni in groundwater. The Air Force will not commit to a change in frequency, particularly a resumption of quarterly sampling, in this report. Results from the landfill wells will be evaluated throughout 2010 and any recommendations will be implemented in the 2011 Mather

Mather AR # 2970.1 Page 1068 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							and total dissolved solids). In light of source uncertainty, these sampling changes are necessary to closely monitor potential releases of contaminants into the groundwater from LF-04 and to assess plume extent and stability; and	Groundwater Monitoring Program Sampling Plan, which is expected to be released in the third or fourth quarter of 2010.
							• To confirm plume source, the Air Force should install two new wells (constructed with only PVC screen and casing) upgradient to MW-132 and MW-112. Analytical data from these well pairs could be compared to test (in a relatively short timeframe) whether Cr/Ni concentrations are related to well construction material or are part of a more extensive non-point source plume emanating from LF-04. The new wells should be installed at sufficient distances upgradient from MW-132 and MW-112 to ensure groundwater samples are outside of the Cr and/or Ni contamination halos hypothesized to be near these well screens.	The Air Force will not commit to additional monitoring wells at LF-04 in this report. It should also be noted that like VOCs, metals near the landfill, whether from the screens or the landfills are limited in extent, and metals in particular are not particularly mobile in Ca/Na-bicarbonate groundwater with normal pH ranges such as the natural background groundwater in the vicinity of the landfills. The nearest potential receptors (groundwater supply wells) are 5,000 to 7,000 feet away in a crossgradient direction.

Mather AR # 2970.1 Page 1069 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
SPECIFIC	1	DTSC	Jeff Brown	Executive Summary	ES-3	3rd paragraph	The text indicates that chromium monitoring at LF-03 and LF-04 was discontinued. This does not appear to be an accurate statement given the recent sampling conducted in wells near each landfill. Please revise.	The text has been revised to describe the most recent monitoring during 2009.
SPECIFIC	2	DTSC	Jeff Brown	3.5 and 9.0		Sampling Recommendations	Based on the uncertainty of source for Cr and Ni and the recent increasing trends for each in selected wells, the GSU does not agree to reducing Cr sampling to every 5-years at compliance wells for LF-04. For additional detail and proposed sampling frequencies for Cr and Ni see general comment #1.	Comment noted. Given the concerns and the some of the 2009 data spikes, particularly for Ni, The Air Force proposes annual sampling for Cr and semiannual for Ni.

Mather AR # 2970.1 Page 1070 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							hot spot plumes of PCE and CCl_4 currently depicted in underlying D zone groundwater (west of the base boundary). Hence, the persistence of PCE and CCl_4 in former water table well MW-160 and current well MW-439 may represent residual mass in the saturated or vadose zone and a continuing source for deeper contamination. Please revise the report to describe the remedial strategy to address recalcitrant PCE and CCl_4 in groundwater observed in MW-439 and an additional investigation to identify the source. Knowledge of the release area should be obtained and data should be provided to demonstrate contaminants from the vadose zone are not present or do not pose a continuing threat to groundwater or a threat to indoor air inhalation.	MAFB-439 are screened in fine-grained silty sands and silts, overbank deposits at the base of the upper Laguna Formation. The conceptual model for contaminants in this area is that there is residual mass adsorbed or retarded within the overbank deposits at this location accounting for or contributing to the persistently high concentrations. Regarding remedial strategy, the water table potentiometric surface shows a consistent depression in this area caused by the influence of Unit B extraction well MBS EW-2B. Contaminants observed in MAFB-439 are within the capture zone of this extraction well so no adjustment to the remedial strategy is proposed. Regarding the source of the D-zone PCE hot spot mentioned in the comment, it can be traced to Site 23C prior to effective mass removal between the source and the residual D-zone hot spot.

Mather AR # 2970.1 Page 1071 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
SPECIFIC	5	DTSC	Jeff Brown			Figure 3-3, Ni Time-Series Plots	The footnote on this figure indicates all samples collected from wells MW-132 and MW-136 were collected from the lower screen in each well. Yet the y-axes on the concentration graphs for these wells indicate samples were collected from the upper screen. Please correct this discrepancy.	The figure has been corrected.

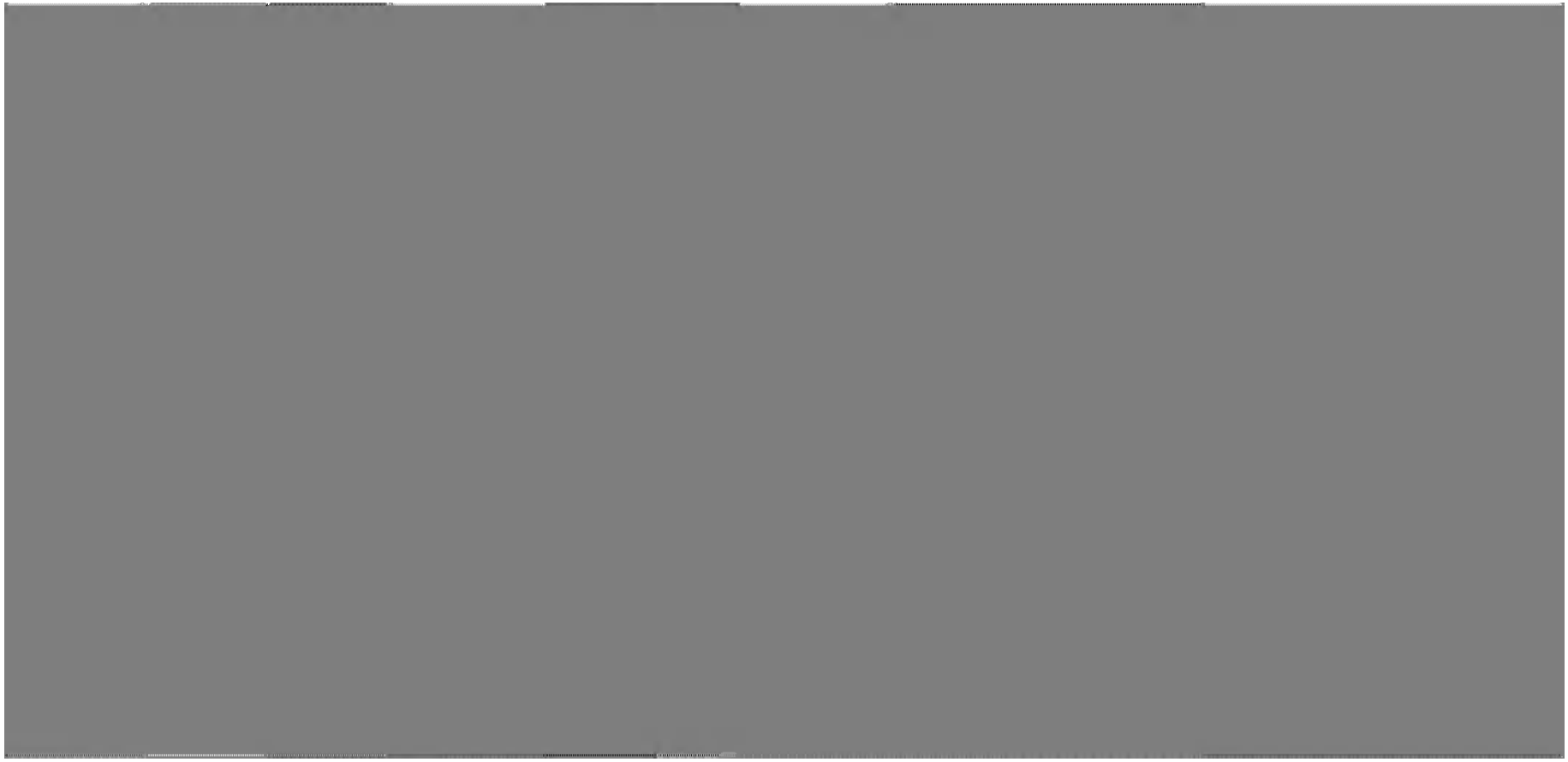
Mather AR # 2970.1 Page 1072 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							wells with "OFB" designations. Wells whose screen depths and 'hydrostratigraphic' information is unknown (which includes 37 of the 47 "OFB" wells, according to Table 2-1) should be depicted on all plume extent figures, in Unit A, Unit B and Unit D, and footnoted as such until screen information is collected.	
							b. <u>Portrayal of Plume Extent</u>: The geographic relationsip of PCE, TCE, CCl_4 and 1,1-dichloroethene (1,1-DCE) plumes in groundwater is difficult to evaluate because only one contaminant is shown in each figure.	The Air Force will consider this modification in future reports.
							In future reports, please overlay the isoconcentration contours of PCE, TCE CCl_4, and 1,1-DCE onto a single figure for each groundwater unit (as was done in Figure 4-1 for Site 7). This step would reduce ten plume figures into three and is likely to lead to more efficient performance evaluations by the Air Force and regulatory agencies.	

Mather AR # 2970.1 Page 1073 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 1, 2010)

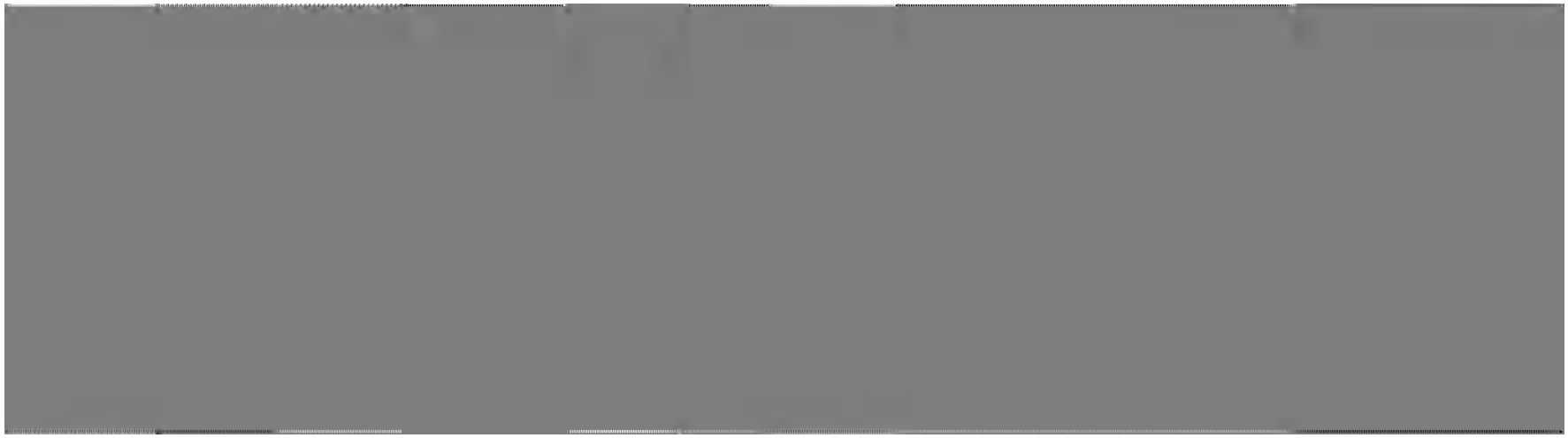
Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
SPECIFIC	7	DTSC	Jeff Brown			Figure 6-3, PCE in groundwater near MW-436	The circular contour of PCE (>5 µg/L) drawn around well MBS-39ABuB should extend to the west, immediately adjacent to well MW-436, which has a PCE detection of 4.3 µg/L. Please revise.	The figure has been revised.



Mather AR # 2970.1 Page 1074 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
GENERAL	1	U.S. EPA	John Lucey				One of the main objectives of the groundwater monitoring program is to assess plume stability and determine if there are any portions of the plumes that are uncontrolled and are expanding. The Draft Annual and Fourth Quarter 2009 Mather Groundwater Monitoring Report (the Annual Report) should identify which monitoring wells are being used to establish the location of leading edge for the various plumes. The Annual Report should also provide a graph showing concentration over time for each of the leading edge monitoring wells. The data plot for concentration over time should then be used to perform a trend analysis to determine if the plume is getting smaller, staying the same, or getting bigger at that specific monitoring point.	Plume expansion at Mather is evaluated via comparison of current plumes (refer to Figures 3-1, 4-1, 5-1, 5-2, and 6-2 through 6-11) to previous plume interpretations. Areas where plume expansion may be occurring are noted in the text (e.g., the discussion of the Southwest Lobe in Section 6.2.2). Also note that time-concentration plots for all groundwater monitoring wells at Mather are provided in Appendix C of the Annual Report. No changes to the report are being made based on this comment.



Mather AR # 2970.1 Page 1075 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							and those wells that have remained dry and may require replacement wells to fulfill the data objective of these wells in regards to long-term monitoring. For those wells that may require replacement wells, please discuss when and how this assessment will be made	
GENERAL	3	U.S. EPA	John Lucey				The figures contained in the Annual Report that show the potentiometric surface contours do not display the well designations. It is difficult to determine the actual well locations when there are no labels provided. Please revise the figures displaying potentiometric surface contours to also show the well designation for each well on the figure.	It is assumed that the reader is referring to Figures 2-4, 2-5, and 2-6. The intent of those figures is to display basewide groundwater trends. Potentiometric surface contours with well labels are shown on the larger scale maps associated with each plume (i.e., Figure 3-1 for the Northeast Plume and Landfills, Figure 4-1 for AC&W, Figure 5-1 and 5-2 for Site 7, and Figures 6-2 to 6-11 for the Main Base/SAC Area Plume). No changes to the report are being made based on this comment.

Mather AR # 2970.1 Page 1076 of 1088

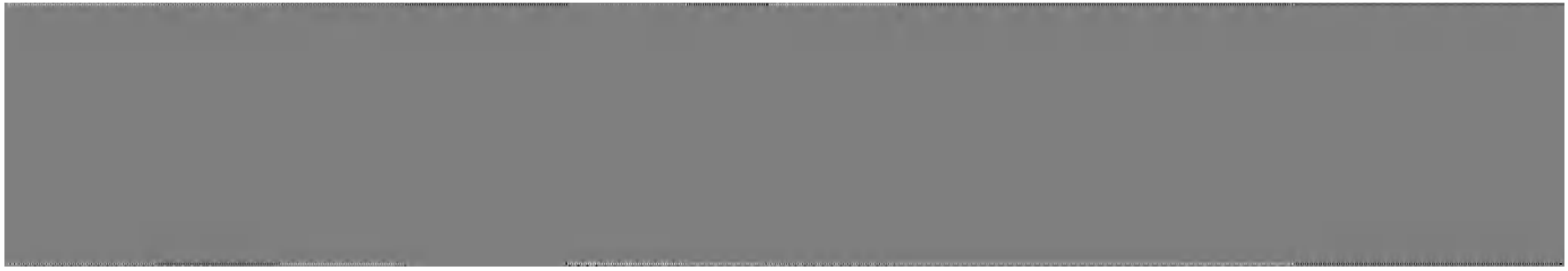
RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
SPECIFIC	1	U.S. EPA	John Lucey	2.1	2-1		The first paragraph of Section 2.1 states some wells may be gauged more frequently then semiannually in areas of concern, but it is not clearly outlined in the text how it is determined whether certain wells require more frequent water level measurements. Please expand the text to explain the criteria that will be used to determine if an area of wells should be gauged more frequently than on a semiannual basis.	The text has been modified to indicate that wells may be chosen for more frequent monitoring based on professional judgment to address specific areas of concern. A summary of the wells selected for more frequent water-level monitoring and the rationale for doing so has been added to the text.

Mather AR # 2970.1 Page 1077 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
SPECIFIC	3	U.S. EPA	John Lucey	2.6	2-9 and 2-11		Page 2-9 of section 2.6 states the production volumes for the California American Water Company (Cal Am) wells were estimated because Cal Am did not provide the information in 2009, but the table displaying production well totals on page 2-11 does not indicate that the values have been estimated. Please revise the table on page 2-11 to include a notation or some indication that the production values for the Cal Am wells were estimated in 2009.	Since the Draft report was issued, Cal Am has provided the Air Force with monthly production volumes for 2009. The tables have been updated with the 2009 data.
SPECIFIC	4	U.S. EPA	John Lucey	3.1.1	3-2		The text states “changes to sampling frequencies for landfill wells are based on water-quality results and trends relative to background concentrations for non-VOCs [non-volatile organic compounds]” but it is unclear whether these changes are based on professional judgment or if the data is applied to a decision logic. Please clarify how this data is used to modify the sampling frequency of a well and also how often wells are assessed for a frequency change (e.g., only in the annual groundwater sampling plan). Please also reference the decision logic, if applicable.	The text has been modified to indicate that, for non-VOCs, detections of metals above the 95% UTL background concentrations trigger an evaluation monitoring program, unless they are judged to be compatible with background or historical results.



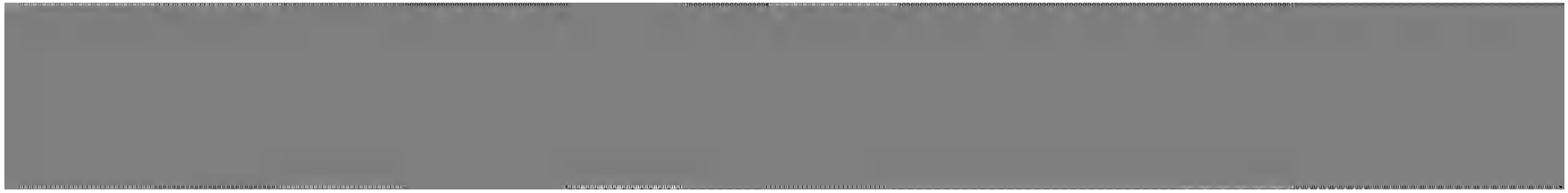
Mather AR # 2970.1 Page 1078 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							northeast plume (NEP).	above the MCL, it does not necessarily represent a significant increase in concentration. MAFB-398C was sampled again in second quarter 2010 and cis-1,2-DCE was detected at 7.6 µg/L. Both results are above the cleanup levels and above the historical results prior to the fourth quarter 2009. Additional sampling will determine whether contaminants persist above the aquifer cleanup standard. It should also be noted that while the results may indicate downward vertical migration of contaminants (there is a downward vertical hydraulic gradient in this area) the much lower vertical and horizontal conductivity in the fine-grained aquifer materials of Unit C at these depths is a significant mitigating factor in significant migration of contaminants.

Mather AR # 2970.1 Page 1079 of 1088

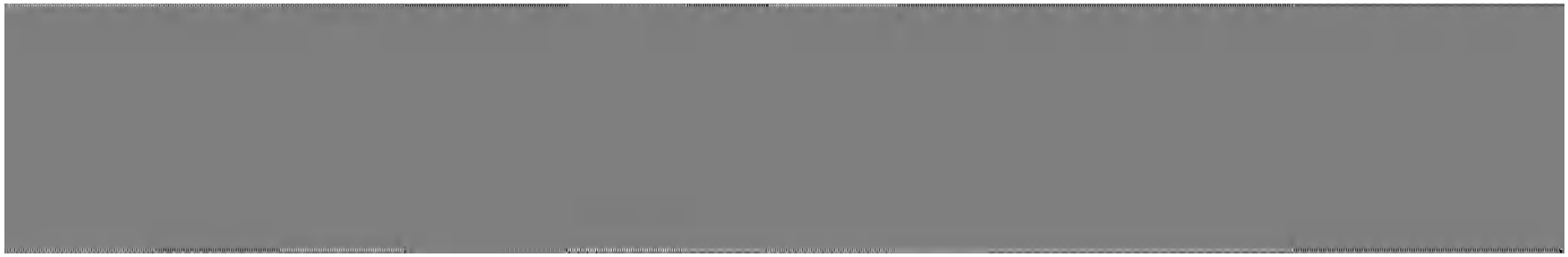
RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
SPECIFIC	6	U.S. EPA	John Lucey	3.3.1	3-8		At the top of page 3-8, the text states trichloroethene (TCE) was detected above the maximum contaminant level (MCL) during the fourth quarter of 2009, but it was concluded these concentrations were not related to a new release, but are instead related to the breakdown of tetrachloroethene (PCE). Although the TCE concentrations are most likely related to the breakdown of PCE, it is not clear how this determination can be made without additional supporting information. It is important to confirm the TCE is not indicative of a new release. Please explain the basis for concluding that the TCE concentrations were the result of the breakdown of PCE rather than of a new release.	The conclusion that TCE detections at MAFB-132 are a result of the breakdown of PCE have been removed from the text since it is speculative. The TCE detection is generally consistent with historic detections in the Northeast Plume, and therefore does not represent a new release.
SPECIFIC	7	U.S. EPA	John Lucey	4.2.2	4-5 and 4-6		According to the text of Section 4.2.2 water-table wells MAFB-401, -402, -403, and -408 are projected to go dry within the next few years, but there is no discussion of how these wells going dry could potentially impact the monitoring network. Please discuss the affect on the monitoring network if these wells were to go dry in the next few years. Also, please state if replacement wells are thought to be necessary if the existing wells go dry.	Additional text has been added to Section 4.2.2 stating that none of the wells referenced in the comment had detections of TCE above the cleanup level in 2009. There are no plans to replace these wells if they go dry because they are upgradient from the MCL plume.



Mather AR # 2970.1 Page 1080 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							system, it is unclear what data has been used to support this conclusion. Please discuss the probable cause of the increased concentrations in 2008 and 2009 and the data that supports this conclusion.	
SPECIFIC	9	U.S. EPA	John Lucey	5.2.2	5-7		The last sentence states MAFB-448 is within the capture zone of 7-EW-1, but this well has displayed increasing concentrations of TCE during 2009. This seems to contradict the statement that there is hydraulic control of the plume at MAFB-448. Please provide additional data to demonstrate capture in the area of MAFB-448.	The reviewer is incorrect in stating that a well with increasing contaminant concentrations cannot be within the capture zone of a downgradient extraction well. Rather, this means that upgradient water with higher concentrations (in the case of MAFB-448 only slightly higher concentrations) is moving through the area near MAFB-448 on its way to the extraction well. The text stating that MAFB-448 is within the capture zone of 7-EW-01 based on the limited water-level data available has not been modified as a result of this comment.



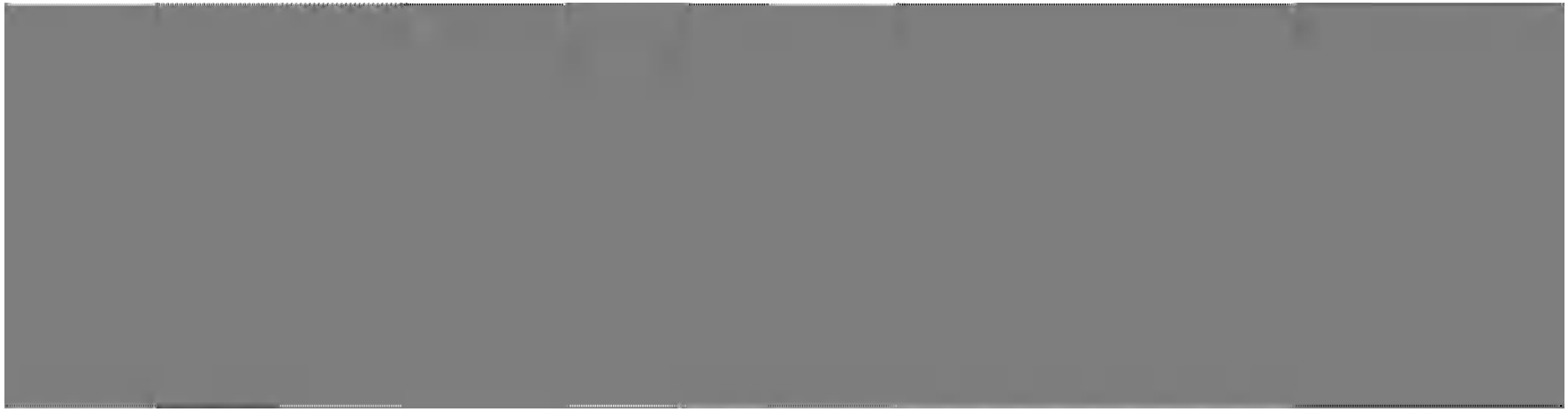
Mather AR # 2970.1 Page 1081 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
							emergent marsh. In addition, MAFB-300 is no longer accessible because of the marsh and will need to be replaced in order to provide data to assist in the recalibration of the groundwater flow model. Please discuss when the groundwater low model will be updated for the Site 7 plume as well as the potential need to replace MAFB-300.	step in forming a better understanding of the influence of the marsh. Once adequate data has been collected, a decision can be made whether to replace MAFB-300 and the Site 7 groundwater model may be updated as part of the data evaluation.

Mather AR # 2970.1 Page 1082 of 1088

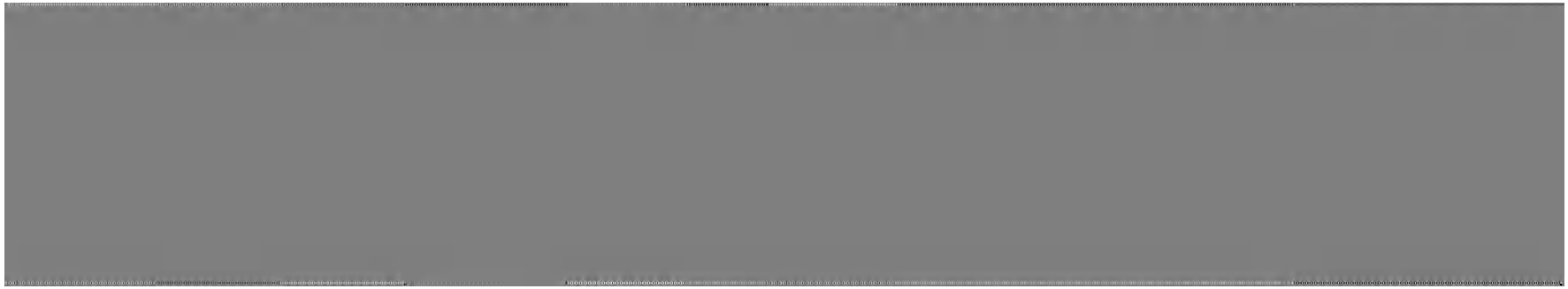
RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
SPECIFIC	12	U.S. EPA	John Lucey	6.2.2	6-12		The last sentence of the first full paragraph on page 6-12 states "the relatively low concentrations of PCE and CCl4 [carbon tetrachloride] mean that dilution, which would be associated with downward migration to deeper water-bearing zones, would prevent contaminant migration at concentrations significantly exceeding cleanup levels;" however, dilution is not an adequate preventative measure for this issue. Please consider other solutions to address the Area 1 portion of the Main Base/SAC Area Plume.	Please see the response to CVWB comment no. 4 for a detailed discussion of monitoring well concentrations and trends in this area of the plume.
SPECIFIC	13	U.S. EPA	John Lucey	9.3	9-3		Although conclusions are provided regarding the Site 7 Plume, Section 9.3 contains no recommendations for the plume. Please revise Section 9.3 to list any recommendations for the Site 7 Plume or to state there are no recommendations regarding operations at this plume.	A reference to the additional monitoring recommended for the emergent marsh area has been added to Section 9.3.



Mather AR # 2970.1 Page 1083 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
								50D (PCE not detected, max PCE of 3.6 ug/L in 2000). In the area east of MBS EW-2D, these wells include FFS MW-15-6 (7.5 ug/L TCE, stable trends, 2.5 CCl_4, currently increasing trend), MAFB-442 (0.16 ug/L, no discernable trend), and MAFB-102 (8.0 ug/L, stable trend, 2.9 ug/L CCl_4, current increasing trend). Well MAFB-442 (screened from -179 to -198 ft msl) is optimally placed to detect any downwardly migrating contamination from upgradient portions of the plume.
SPECIFIC	15	U.S. EPA	John Lucey			Figure 5-1	The extent of the TCE plume south of MAFB-448 is undefined. Please discuss whether additional data is necessary at the southern toe of the plume to define the extent of the plume in this area.	Please see response to general comment No 2 from the CVWB.



Mather AR # 2970.1 Page 1084 of 1088

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
								shown as a dashed line in that direction.
SPECIFIC	17	U.S. EPA	John Lucey			Figure 6-7	No wells are present downgradient of MAFB-452B or MAFB-364B to define the extent of PCE. The boundaries of the plumes in these areas should be dashed to indicate there is uncertainty associate with the extent. Please revise the plume boundaries near these wells to use dashed lines in order to indicate there is uncertainty associated with the location of the plume boundary.	The figure has been revised.
SPECIFIC	18	U.S. EPA	John Lucey			Figure 6-8	No wells are present crossgradient of MAFB-225 to define the extent of CCl_4. The eastern boundary of the largest plume should be dashed to indicate there is uncertainty associated with the extent of CCl_4. Please revise the eastern plume boundary near MAFB-225 to use dashed lines in order to indicate there is uncertainty associated with the location of the plume boundary.	The figure has been revised.

Mather AR # 2970.1 Page 1085 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
SPECIFIC	20	U.S. EPA	John Lucey			Table 2-2	Some wells do not have an explanation present in the comments column to explain why groundwater level data is not provided for all four measurement events (second and fourth quarters of 2008 and 2009). For example, 7-IW-04 and ACW AT-1 have groundwater levels listed for both quarters in 2008 as well as the second quarter of 2009, but there are no groundwater levels provided for the fourth quarter of 2009, and there are no comments provided. Please provide comments for any wells lacking groundwater level data from the four events displayed.	The table has been updated with comments for all wells where water level measurements were not taken during the fourth quarter 2009
MINOR	1	U.S. EPA	John Lucey	3.1.1	3-1		The text references the closure and post-closure maintenance plans for LF03 and LF04 as well as Site 7, but does not mention that these plans currently have draft addendums under review. Please revise the text to state that these plans are currently under review.	A reference to the recently revised plans has been added to the report.

Mather AR # 2970.1 Page 1086 of 1088

RESPONSE TO COMMENTS: Draft Annual and Fourth Quarter 2009, Mather Groundwater Monitoring Report, Former Mather Air Force Base (AFB), Sacramento County (April 2010)

Comment Type	Comment No	Comment By	Commentator	Section	Page	Other	Comment	Air Force Response
MINOR	3	U.S. EPA	John Lucey	5.2.2	5-6		The text on page 5-6 present the concentrations “57M” and “18M ug/L” but the meaning of the “M” following the concentration values is unclear. Please remove the “M” or explain its significance.	A note was added to the text to explain that the M flag means matrix effects were present in the sample analysis.
MINOR	4	U.S. EPA	John Lucey	5.3	5-7		The second paragraph states the marsh “has water depths of up to about 3,” but there are no units provided. Please revise the sentence to include the units.	The proper units of feet were added to the text.

Mather AR # 2970.1 Page 1087 of 1088

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE