Appendix C
ANALYTICAL DATA REVIEW

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SAMPLE DESCRIPTION	Count	Metals	SVOCs	Explosives	VOCs	Comments
02A2A-SB-GNH4 1-10'	176	7	7	7	7	
02A2B-SB-GN08 1-10'	176	7	7	7	7	
A2A-SB-GN01 1-10'	176	7	7	7	7	
A2A-SB-GN04 1-10'	176	7	7	7	7	
A2A-SB-GNF3 1-10'	176	7	7	7	7	
A2A-SB-GNF4 1-10'	176	7	7	7	8	
A2A-SB-GNH4 1-10'	176	7	7	7	8	
A2A-SB-GNH6 1-10'	176	7	7	7	8	
A2A-SD-IS-01	113	1	1	1	1	
A2A-SD-IS-02	113	1	1	1	1	
A2A-SD-IS-03	113	1	1	1	1	
A2A-SD-WA-01	177	1	1	1	1	
A2A-SS ODPIT-13 0-1'	177	3	3	3	3	
A2A-SS-GN01 0-1'	153	NA	7	7	7	
A2A-SS-GN04 0-1'	153	NA	7	7	7	
A2A-SS-GNF3 0-1'	153	Package A	7	7	7	
A2A-SS-GNF4 0-1'	153	NA	7	7	7	
A2A-SS-GNH6 0-1'	153	NA	7	7	7	
A2A-SS-ODPIT-01-0-1'	177	4	4	4	4	
A2A-SS-ODPIT-02 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-03A 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-04 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-05 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-06-0-1'	177	3	3	3	3	
A2A-SS-ODPIT-07 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-08 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-09 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-10 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-11 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-12 (O) 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-12 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-14 0-1'	177	3	3	3	3	
A2A-SS-ODPIT-15-0-1'	178	4	4	4	4	
A2A-SS-ODPIT-15-0-1' (DUP)	177	4	4	4	4	
A2B-SB-GNC2 1-10'	176	7	7	7	7	
A2B-SB-GNC4 1-10'	176	7	7	7	7	
A2B-SB-GND6 1-10'	176	7	7	7	7	
A2B-SB-GND8 1-10'	176	7	7	7	7	
A2B-SB-GNF6 1-10'	177	5	5	5	5	
A2B-SB-GNF8 1-10'	177	5	5	5	5	
A2B-SB-GNI4 1-10'	177	5	5	5	5	
A2B-SB-GNJ7 1-10'	177	5	5	5	5	
A2B-SB-GNK7-1-10'	177	5	5	5	5	
A2B-SB-GNL6-1-10'	177	5	5	5	5	
A2B-SS-GNC2-0-1'	177	5	5	5	5	
A2B-SS-GNC4-0-1'	177	5	5	5	5	
A2B-SS-GND6-0-1'	178	4	4	4	4	
A2B-SS-GND8-0-1'	177	5	5	5	5	
A2B-SS-GNF6-0-1'	177	5	5	5	5	
A2B-SS-GNF8-0-1'	177	5	5	5	5	
A2B-SS-GNI4-0-1'	177	5	5	5	5	
A2B-SS-GNJ7-0-1'	177	5	5	5	5	
A2B-SS-GNK7-0-1'	177	4	4	4	4	
A2B-SS-GNL6-0-1'	178	5	5	5	5	
A2B-SS-ODPIT-16S-0-1'	177	6	6	6	6	
A2B-SS-ODPIT-17C-0-1'	178	6	6	6	6	
A2B-SS-ODPIT-18C-(D) 0-1'	177	6	6	6	6	
A2B-SS-ODPIT-18C-0-1'	177	6	6	6	6	
A2B-SS-ODPIT-25N-0-1'	177	6	6	6	6	
A2C-SB-GNB3 1-10'	64	2	2	2	6	

SAMPLE DESCRIPTION	Count	Metals	SVOCs	Explosives	VOCs	Comments
A2C-SB-GNB4 1-10'	177	2	2	2	2	
A2C-SB-GNC4 1-10'	177	2	2	2	2	
A2C-SB-GND2 1-10'	177	2	2	2	6	
A2C-SB-GND3 1-10'	177	2	2	2	6	
A2C-SB-GNE2 1-10'	64	NA	NA	NA	6	
A2C-SB-GNE5 1-10'	177	2	2	2	2	
A2C-SB-GNF7 10'	64	NA	NA	NA	7	
A2C-SB-GNG4 1-10'	64	NA	NA	NA	6	
A2C-SB-GNH4	177	2	2	2	2	
A2C-SS-GNB3-0-1'	177	4	4	4	4	
A2C-SS-GNB4-0-1'	177	4	4	4	4	
A2C-SS-GNB4-0-1' (DUP)	177	5	5	5	5	
A2C-SS-GNC4-0-1'	177	4	4	4	4	
A2C-SS-GND2-0-1'	177	4	4	4	4	
A2C-SS-GND3-0-1'	177	4	4	4	4	
A2C-SS-GNE2-0-1'	177	4	4	4	4	
A2C-SS-GNE5-0-1'	177	5	5	5	5	
A2C-SS-GNE5-0-1' (DUP)	177	5	5	5	5	
A2C-SS-GNF7-0-1'	177	4	4	4	4	
A2C-SS-GNG4-0-1'	177	4	4	4	4	
A2C-SS-GNH4-0-1'	177	4	4	4	4	
A2C-SS-ODPIT-19C-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-20C-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-21E-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-22C-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-23E-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-24C-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-26C-0-1'	177	4	4	4	4	
A2C-SS-ODPIT-27C-0-1'	177	4	4	4	4	
A2C-SS-ODPIT-28W-0-1'	177	4	4	4	4	
A2C-SS-ODPIT-29C-0-1'	177	4	4	4	4	
A2C-SS-ODPIT-30S-0-1'	177	4	4	4	4	
A2C-SS-ODPIT-31CW-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-32E-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-33N-0-1'	177	6	6	6	6	
A2C-SS-ODPIT-34W-0-1'	177	4	4	4	4	
A2C-SS-ODPIT-35W-0-1'	177	5	5	5	5	
A2S-SB-GNB3 1-10'	113	2	2	2	NA	
A2S-SB-GNC4	164	2	2	2	2	
A2S-SB-GNE2	92	2	2	2	2	
A2S-SB-GNF7	164	2	2	2	2	
MW-1	176	9	9	9	9	
MW-2	176	9	9	9	9	
MW-3	176	9	9	9	9	
MW-4	176	9	9	9	9	
MW-5	176	9	9	9	9	
MW-6	176	9	9	9	9	
MW-7	176	9	9	9	9	
MW-8	176	9	9	9	9	
MW-9	176	9	9	9	9	
MW-9A	176	9	9	9	9	
RB082801 (RINSATE BLANK)	177	5	5	5	5	
RB082901	177	6	6	6	6	
RB090501 (RINSATE BLANK)	177	5	5	5	5	
RB091601	176	NA	NA	NA	9,9	
Trip Blank	448	NA	NA	NA	1,2,2,7,7,7,8	
Trip Blank #1 (1/28/01)	64	NA	NA	NA	5	
Trip Blank #131D	64	NA	NA	NA	3	
Trip Blank #2	64	NA	NA	NA	5	
Trip Blank #3	64	NA	NA	NA	5	

SAMPLE DESCRIPTION	Count	Metals	SVOCs	Explosives	VOCs	Comments
Trip Blank 08/29	64	NA	NA	NA	6	
Trip Blank 8-28	64	NA	NA	NA	4	
Trip Blank 8-29	64	NA	NA	NA	4	
Trip Blank TB091901	64	NA	NA	NA	?	

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OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA0A Log No. S1-15498A Metals	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: August 31, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SS-GNB1 0-1'	15498A-1	Solid
A2A-SS-GND1 0-1'	15498A-2	Solid
A2A-SS-GNC1 0-1'	15498A-3	Solid
A2A-SS-GNE1 0-1'	15498A-4	Solid
A2A-SS-GNE2 0-1'	15498A-5	Solid
A2A-SS-GNC2 0-1'	15498A-6	Solid
A2A-SS-GNC3 0-1'	15498A-7	Solid
A2A-SS-GNB3 0-1'	15498A-8	Solid
A2A-SS-GNE3 0-1'	15498A-9	Solid
A2A-SS-GNE3(D) 0-1'	15498A-10	Solid
A2A-SS-GNE6 0-1'	15498A-11	Solid
A2A-SS-GNE6(D) 0-1'	15498A-12	Solid
A2A-SS-GNG6 0-1'	15498A-13	Solid
A2A-SS-GNF7 0-1'	15498A-14	Solid
A2A-SS-GNG7 0-1'	15498A-15	Solid
A2A-SS-GND7 0-1'	15498A-16	Solid
A2A-SS-GNH7 0-1'	15498A-17	Solid
A2A-SS-GNE8 0-1'	15498A-18	Solid
A2A-SS-GNG8 0-1'	15498A-19	Solid
A2A-SS-GNG8(D) 0-1'	15498A-20	Solid
A2A-SS-GNF3 0-1'	15498A-21	Solid
A2A-SS-GNG3 0-1'	15498A-22	Solid
A2A-SS-GNC4 0-1'	15498A-23	Solid
A2A-SS-GNE4 0-1'	15498A-24	Solid
A2A-SS-GNG4 0-1'	15498A-25	Solid
A2A-SS-GNC5 0-1'	15498A-26	Solid
A2A-SS-GND5 0-1'	15498A-27	Solid
A2A-SS-GNE5 0-1'	15498A-28	Solid
A2A-SS-GNF5 0-1'	15498A-29	Solid
A2A-SS-GNG5 0-1'	15498A-30	Solid
A2A-SS-GNH5 0-1'	15498A-31	Solid
Method Blank	15498A-32	Solid
Lab Control Standard	15498A-33	Solid
Method Blank	15498A-34	Solid
Lab Control Standard	15498A-35	Solid
LCS Accuracy Control Limit	15498A-36	Solid
Method Blank	15498A-37	Solid

Field Sample ID	Lab Sample ID	Matrix
Lab Control Standard	15498A-38	Solid
Method Blank	15498A-39	Solid
Lab Control Standard	15498A-40	Solid
LCS Accuracy Control Limit	15498A-41	Solid
A2A-SS-GNC6 0-1'	15498A-42	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		Target analytes were not detected in method blank.
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?	✔		
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	MS/MSD recoveries were outside advisory limits for aluminum, iron and manganese (Samples 15498A-37, -38, -40, and –41) and copper (Samples 15498A-37 and –38) due to the abundance of the target analyte in the sample. Positive results will be flagged "J" for these analytes in all SDG samples; no action will be taken for non-detects. MS/MSD recoveries were outside advisory limits for antimony (Samples 15498A-37, -38, -40, and –41) due to matrix interference present in the sample. Positive results will be flagged "J" and non-detects will be flagged "UJ" for all results in this SDG. MS/MSD recoveries were outside advisory limits for chromium and lead (Sample 15498A-37), chromium and magnesium (Sample 15498A-38), chromium (Sample 15498A-40), and copper and magnesium (Sample 15498A-41) due to non-homogeneity of the sample. Positive results will be flagged "J" and non-detects will be flagged "UJ" for all results in this SDG.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	RPDs not run due to matrix interference. This data is acceptable for field screening analysis.
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Elevated detection limits were reported for antimony, silver and thallium (Samples A2A-SS-GND1 0-1', A2A-SS-GNC1 0-1', A2A-SS-GNC2 0-1', A2A-SS-GNE3(D) 0-1', A2A-SS-GNC4 0-1', A2A-SS-GNC5 0-1', and A2A-SS-GND5 0-1') and silver (Samples A2A-SS-GND1 0-1', A2A-SS-GNC1 0-1', A2A-SS-GNC2 0-1', A2A-SS-GNE3(D) 0-1', A2A-SS-GNC4 0-1', and A2A-SS-GND5 0-1') due to sample matrix interference which required sample or extract dilution. This data is acceptable for field screening analysis.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA0B Log No. S1-15077 Metals	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: August 15, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/13/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-GNE5	15077-1	Solid
A2B-SS-GND8	15077-2	Solid
A2B-SS-GNB3	15077-3	Solid
A2B-SS-GNC2	15077-4	Solid
A2B-SS-GNM5	15077-5	Solid
A2B-SS-GNF3	15077-6	Solid
A2B-SS-GNC4	15077-7	Solid
A2B-SS-GNK11	15077-8	Solid
A2B-SS-GNG6	15077-9	Solid
A2B-SS-GNI4	15077-10	Solid
A2B-SS-GNE6	15077-11	Solid
A2B-SS-GNC4	15077-12	Solid
A2B-SS-GNF6	15077-13	Solid
A2B-SS-GND4	15077-14	Solid
A2B-SS-GNL6	15077-15	Solid
A2C-SS-GNG5	15077-16	Solid
A2C-SS-GND1	15077-17	Solid
A2C-SS-GNO5	15077-18	Solid
A2C-SS-GNE2	15077-19	Solid
A2C-SS-GNG4	15077-20	Solid
A2C-SS-GND3	15077-21	Solid
A2C-SS-GNH4	15077-22	Solid
A2C-SS-GNE5	15077-23	Solid
A2C-SS-GNB3	15077-24	Solid
A2C-SS-GNF7	15077-25	Solid
A2C-SS-GNC4	15077-26	Solid
A2C-SS-GNH5	15077-27	Solid
A2C-SS-GND2	15077-28	Solid
A2C-SS-GNB4	15077-29	Solid
A2C-SS-GNE1	15077-30	Solid
02A2C-SS-GNE1	15077-31	Solid
02A2C-SS-GND4	15077-32	Solid
A2B-SS-GNG4	15077-33	Solid
A2B-SS-GNK7	15077-34	Solid
A2B-SS-GNJ7	15077-35	Solid
A2B-SS-GNF8	15077-36	Solid
02A2B-SS-GND8 DUPLICATE	15077-37	Solid

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-GNJ12	15077-38	Solid
A2B-SS-GNK6	15077-39	Solid
A2B-SS-GND6	15077-40	Solid
Method Blank	15077-41	Solid
Lab Control Standard	15077-42	Solid
Method Blank	15077-43	Solid
Lab Control Standard	15077-44	Solid
LCS Accuracy Control Limit	15077-45	Solid
Matrix Spike	15077-46	Solid
Matrix Spike Duplicate	15077-47	Solid
Matrix Spike	15077-48	Solid
Matrix Spike Duplicate	15077-49	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	MS/MSD recoveries were outside advisory limits for aluminum, iron and manganese (Samples A2B-SS-GNE5 and A2B-SS-GNG5) and copper (Sample A2B-SS-GNG5) due to the abundance of the target analyte in the sample. Positive results will be flagged "J" for these analytes in all SDG samples; no action will be taken for non-detects. MS/MSD recoveries were outside advisory limits for antimony (Samples A2B-SS-GNE5 and A2B-SS-GNG5) due to matrix interference present in the sample. Positive results will be flagged "J" and non-detects will be flagged "UJ" for all results in this SDG. MS/MSD recoveries were outside advisory limits for chromium, magnesium and potassium (Sample A2B-SS-GNE5 MS) and chromium (Sample A2B-SS-GNG5 MSD) due to non-homogeneity of the sample. Positive results will be flagged "J" and non-detects will be flagged "UJ" for all results in this SDG.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	RPDs not run due to matrix interference. This data is acceptable for field screening analysis.
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

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OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA0C Log No. S1-14854, S1-14893, S1-14936, S1-14977, and S1-15077 Metals	Sample Matrix: X Soil X Water ___ Other ___
Report Dates: 07, 08, 09, and 15 August 2001	Method: SW-846 Methods 6010B and 7471A Field Screening
Reviewer: Matt Weakley	Review Date: 03/19/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix	Field Sample ID	Lab Sample ID	Matrix
5C	14854-1	Solid	1W	14854-38	Solid
5C Duplicate	14854-2	Solid	1S	14854-39	Solid
6C	14854-3	Solid	1E	14854-40	Solid
7S	14854-4	Solid	2W	14854-41	Solid
7E	14854-5	Solid	2S	14854-42	Solid
7W	14854-6	Solid	2N	14854-43	Solid
7E Duplicate	14854-7	Solid	2C	14854-44	Solid
7N	14854-8	Solid	2E	14854-45	Solid
7C	14854-9	Solid	3AS	14854-46	Solid
8N	14854-10	Solid	3AE	14854-47	Solid
8S	14854-11	Solid	3AN	14854-48	Solid
8E	14854-12	Solid	3AW	14854-49	Solid
8W	14854-13	Solid	3AC	14854-50	Solid
9S	14854-14	Solid	3BC	14854-51	Solid
9E	14854-15	Solid	4N	14854-52	Solid
9N	14854-16	Solid	4W	14854-53	Solid
9E Duplicate	14854-17	Solid	4W Duplicate	14854-54	Solid
9C	14854-18	Solid	4E	14854-55	Solid
9W	14854-19	Solid	4S	14854-56	Solid
10N	14854-20	Solid	4C	14854-57	Solid
10C	14854-21	Solid	Method Blank	14854-58	Solid
10S	14854-22	Solid	LCS	14854-59	Solid
10E	14854-23	Solid	Method Blank	14854-60	Solid
11E	14854-24	Solid	LCS	14854-61	Solid
11C	14854-25	Solid	Method Blank	14854-62	Solid
11W	14854-26	Solid	LCS	14854-63	Solid
11N	14854-27	Solid	LCS ACL	14854-64	Solid
11S	14854-28	Solid	MS (7C)	14854-65	Solid
12N	14854-29	Solid	MSD (7C)	14854-66	Solid
12N Duplicate	14854-30	Solid	MS (10S)	14854-67	Solid
12C	14854-31	Solid	MSD (10S)	14854-68	Solid
12W	14854-32	Solid	MS (1W)	14854-69	Solid
12E	14854-33	Solid	MSD (1W)	14854-70	Solid
13C	14854-34	Solid	Rinsate 1	14854-71	Liquid
14C	14854-35	Solid	Method Blank	14854-72	Solid
1N	14854-36	Solid	LCS	14854-73	Solid
1C	14854-37	Solid	LCS ACL	14854-74	Solid

Field Sample ID	Lab Sample ID	Matrix	Field Sample ID	Lab Sample ID	Matrix
10W	14893-1	Solid	18C	14893-20	Solid
12S	14893-2	Solid	18S	14893-21	Solid
15N	14893-3	Solid	18W	14893-22	Solid
15E	14893-4	Solid	18E	14893-23	Solid
15S	14893-5	Solid	20N Duplicate	14893-24	Solid
15W	14893-6	Solid	20W	14893-25	Solid
15C	14893-7	Solid	20N	14893-26	Solid
16S	14893-8	Solid	20C	14893-27	Solid
16N	14893-9	Solid	20E	14893-28	Solid
16W	14893-10	Solid	20S	14893-29	Solid
16E	14893-11	Solid	Method Blank	14893-30	Solid
16C	14893-12	Solid	LCS	14893-31	Solid
17S	14893-13	Solid	Method Blank	14893-32	Solid
17C	14893-14	Solid	LCS	14893-33	Solid
17E	14893-15	Solid	LCS ACL	14893-34	Solid
17W	14893-16	Solid	MS (10W)	14893-35	Solid
17N Duplicate	14893-17	Solid	MSD (10W)	14893-36	Solid
17N	14893-18	Solid	MS (18W)	14893-37	Solid
18N	14893-19	Solid	MSD (18W)	14893-38	Solid
19W	14936-1	Solid	27C	14936-31	Solid
19S	14936-2	Solid	29S	14936-32	Solid
19C	14936-3	Solid	29W	14936-33	Solid
19N	14936-4	Solid	29W Duplicate	14936-34	Solid
19E	14936-5	Solid	29N	14936-35	Solid
21S	14936-6	Solid	29E	14936-36	Solid
21N	14936-7	Solid	29C	14936-37	Solid
21E	14936-8	Solid	28N	14936-38	Solid
21W	14936-9	Solid	28C	14936-39	Solid
22E	14936-10	Solid	28E	14936-40	Solid
22S	14936-11	Solid	28S	14936-41	Solid
22W	14936-12	Solid	28W	14936-42	Solid
22N	14936-13	Solid	Method Blank	14936-43	Solid
23E	14936-14	Solid	LCS	14936-44	Solid
22C	14936-15	Solid	Method Blank	14936-45	Solid
23N	14936-16	Solid	LCS	14936-46	Solid
23C	14936-17	Solid	Method Blank	14936-47	Solid
23S	14936-18	Solid	LCS	14936-48	Solid
24E	14936-19	Solid	LCS ACL	14936-49	Solid
24C	14936-20	Solid	MS (19W)	14936-50	Solid
24N	14936-21	Solid	MSD (19W)	14936-51	Solid
24S	14936-22	Solid	MS (22N)	14936-52	Solid
24C Duplicate	14936-23	Solid	MSD (22N)	14936-53	Solid
24W	14936-24	Solid	MS (23W)	14936-54	Solid
23W	14936-25	Solid	MSD (23W)	14936-55	Solid
25N	14936-26	Solid	Rinsate 2	14936-56	Liquid
25S	14936-27	Solid	Method Blank	14936-57	Solid
25E	14936-28	Solid	LCS	14936-58	Solid
25W	14936-29	Solid	LCS ACL	14936-59	Solid
26C	14936-30	Solid			

Field Sample ID	Lab Sample ID	Matrix	Field Sample ID	Lab Sample ID	Matrix
33C	14977-1	Solid	30E	14977-31	Solid
33C Duplicate	14977-2	Solid	30W	14977-32	Solid
33E	14977-3	Solid	31W	14977-33	Solid
33S	14977-4	Solid	31C	14977-34	Solid
33N	14977-5	Solid	31CE	14977-35	Solid
33W	14977-6	Solid	B6	14977-36	Solid
32N	14977-7	Solid	D4	14977-37	Solid
32W	14977-8	Solid	B4	14977-38	Solid
32E	14977-9	Solid	D8	14977-39	Solid
32S	14977-10	Solid	30C	14977-40	Solid
32C	14977-11	Solid	H8	14977-41	Solid
34N	14977-12	Solid	F6	14977-42	Solid
34C	14977-13	Solid	H6	14977-43	Solid
34W	14977-14	Solid	H6 Duplicate	14977-44	Solid
34C Duplicate	14977-15	Solid	F8	14977-45	Solid
35S	14977-16	Solid	F4	14977-46	Solid
35E	14977-17	Solid	Method Blank	14977-47	Solid
35W	14977-18	Solid	LCS	14977-48	Solid
35C	14977-19	Solid	Method Blank	14977-49	Solid
35N	14977-20	Solid	LCS	14977-50	Solid
35C Duplicate	14977-21	Solid	Method Blank	14977-51	Solid
34E	14977-22	Solid	LCS	14977-52	Solid
34S	14977-23	Solid	LCS ACL	14977-53	Solid
30C	14977-24	Solid	MS (33C)	14977-54	Solid
31C Duplicate	14977-25	Solid	MSD (33C)	14977-55	Solid
31CW	14977-26	Solid	MS (34C)	14977-56	Solid
30N	14977-27	Solid	MSD (34C)	14977-57	Solid
H4	14977-28	Solid	MS (35C)	14977-58	Solid
D6	14977-29	Solid	MSD (35C)	14977-59	Solid
31E	14977-30	Solid			

Field Sample ID	Lab Sample ID	Matrix	Field Sample ID	Lab Sample ID	Matrix
A2B-SS-GNE5	15077-1	Solid	A2C-SS-GND3	15077-21	Solid
A2B-SS-GND8	15077-2	Solid	A2C-SS-GNH4	15077-22	Solid
A2B-SS-GNB3	15077-3	Solid	A2C-SS-GNE5	15077-23	Solid
A2B-SS-GNC2	15077-4	Solid	A2C-SS-GNB3	15077-24	Solid
A2B-SS-GNM5	15077-5	Solid	A2C-SS-GNF7	15077-25	Solid
A2B-SS-GNF3	15077-6	Solid	A2C-SS-GNC4	15077-26	Solid
A2B-SS-GNC4	15077-7	Solid	A2C-SS-GNH5	15077-27	Solid
A2B-SS-GNK11	15077-8	Solid	A2C-SS-GND2	15077-28	Solid
A2B-SS-GNG6	15077-9	Solid	A2C-SS-GNB4	15077-29	Solid
A2B-SS-GNI4	15077-10	Solid	A2C-SS-GNE1	15077-30	Solid
A2B-SS-GNE6	15077-11	Solid	02A2C-SS-GNE1	15077-31	Solid
A2B-SS-GNC4	15077-12	Solid	02A2C-SS-GND4	15077-32	Solid
A2B-SS-GNF6	15077-13	Solid	A2B-SS-GNG4	15077-33	Solid
A2B-SS-GND4	15077-14	Solid	A2B-SS-GNK7	15077-34	Solid
A2B-SS-GNL6	15077-15	Solid	A2B-SS-GNJ7	15077-35	Solid
A2B-SS-GNG5	15077-16	Solid	A2B-SS-GNF8	15077-36	Solid
A2C-SS-GND1	15077-17	Solid	02A2B-SS-GND8 Duplicate	15077-37	Solid
A2C-SS-GNO5	15077-18	Solid	A2B-SS-GNJ12	15077-38	Solid
A2C-SS-GNE2	15077-19	Solid	A2B-SS-GNK6	15077-39	Solid
A2C-SS-GNG4	15077-20	Solid	A2B-SS-GND6	15077-40	Solid

Field Sample ID = Assigned by the sampling team

Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		Target analytes were not detected in method blank.
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes were not detected in rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	See laboratory comments and data qualifiers. All results are acceptable for field screening.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	See laboratory comments and data qualifiers. All results are acceptable for field screening.
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	See laboratory comments and data qualifiers. All results are acceptable for field screening.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

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OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA01 Log No. S1-15120 Explosives	Sample Matrix: X Soil X Water ___ Other ___
Report Date: August 31, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SD-IS-01	S115120-1	Solid
A2A-SD-IS-02	S115120-2	Solid
A2A-SD-IS-03	S115120-3	Solid
A2A-SD-WA-01	S115120-4	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

__The following holding time violations are noted:

Corrections/Information Required:
None.

Corrections/Information Received:
Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA01 Log No. S1-15120 Metals	Sample Matrix: X Soil X Water ___ Other ___
Report Date: August 31, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SD-IS-01	S115120-1	Solid
A2A-SD-IS-02	S115120-2	Solid
A2A-SD-IS-03	S115120-3	Solid
A2A-SD-WA-01	S115120-4	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	Antimony has a spiked sample recovery below control limits due to matrix interference in the MS/MSD sample A2A-SD-IS-01. Positive results will be flagged "J" and non-detects will be flagged "UJ" in all samples in this SDG. Aluminum, chromium, iron and manganese have spiked sample recoveries not within control limits due to due to the abundance of the elements in relation to the amount of spike added to sample A2A-SD-IS-01. No action will be taken on non-detects and positive results will be flagged "J" for these analytes in all SDG samples.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	Sample A2A-SD-IS-01 RPDs were not within limits for manganese due to the abundance of the element in relation to the amount of spike added to the sample. See above flag for manganese.
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	The serial dilution for sample A2A-SD-WA-01 exceeded limits for zinc. All non-detects will be flagged "UJ" for zinc in this sample.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA01 Log No. S1-15120 TCL Semi-Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: August 31, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SD-IS-01	S115120-1	Solid
A2A-SD-IS-02	S115120-2	Solid
A2A-SD-IS-03	S115120-3	Solid
A2A-SD-WA-01	S115120-4	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Benzyl alcohol and benzoic acid were evaluated as tentatively identified compounds (TIC). TICs will not be reported for this project.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA01 Log No. S1-15120 Volatiles	Sample Matrix: ___ Soil _X_ Water ___ Other ___
Report Date: August 31, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SD-WA-01	S115120-4	Liquid
Trip Blank	S115120-5	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes were not detected in trip blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA02 Log No. S1-115361 and S1-115388 Explosives	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2C-SB-GNB4 1-10'	S115361-4	Solid
A2C-SB-GNC4 1-10'	S115361-5	Solid
A2C-SB-GNE5 1-10'	S115361-6	Solid
A2C-SB-GND2 1-10'	S115361-8	Solid
A2C-SB-GND3 1-10'	S115361-9	Solid
A2S-SB-GNB3 1-10'	S115361-10	Solid
A2C-SB-GNH4	S115388-1	Solid
A2S-SB-GNF7	S115388-2	Solid
A2S-SB-GNC4	S115388-3	Solid
A2S-SB-GNE2	S115388-4	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

__The following holding time violations are noted:

Corrections/Information Required:
None.

Corrections/Information Received:
Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA02 Log No. S1-115361 and S1-115388 Metals	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2C-SB-GNB4 1-10'	S115361-4	Solid
A2C-SB-GNC4 1-10'	S115361-5	Solid
A2C-SB-GNE5 1-10'	S115361-6	Solid
A2C-SB-GND2 1-10'	S115361-8	Solid
A2C-SB-GND3 1-10'	S115361-9	Solid
A2S-SB-GNB3 1-10'	S115361-10	Solid
A2C-SB-GNH4	S115388-1	Solid
A2S-SB-GNF7	S115388-2	Solid
A2S-SB-GNC4	S115388-3	Solid
A2S-SB-GNE2	S115388-4	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	Antimony, chromium, copper, magnesium, manganese and mercury have spiked sample recoveries not within control limits due to matrix interference in the MS/MSD sample A2C-SB-GNB4 1-10'. Positive results will be flagged with a "J" for these analytes for all SDG samples. Non-detects will be flagged "UJ" for antimony; no action will be taken for non-detects for chromium, copper, magnesium, manganese, and mercury. Aluminum and iron RPDs were not within limits due to the abundance of the elements in relation to the amount of spike added to the sample. Positive results will be flagged with a "J" for these analytes for all batch samples.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	Sample A2C-SB-GNB4 1-10' RPDs were not within limits for manganese due to the abundance of the element in relation to the amount of spike added to the sample. This analyte was not detected in any project samples or the spike; no action taken. See action noted above.
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	The serial dilution for A2C-SB-GNB4 1-10'exceeded limits for zinc. All positive results for zinc in the batch will be flagged with a "J"; non-detects will be flagged "UJ".

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA02 Log No. S1-115361 and S1-115388 TCL Semi-Volatiles	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2C-SB-GNB4 1-10'	S115361-4	Solid
A2C-SB-GNC4 1-10'	S115361-5	Solid
A2C-SB-GNE5 1-10'	S115361-6	Solid
A2C-SB-GND2 1-10'	S115361-8	Solid
A2C-SB-GND3 1-10'	S115361-9	Solid
A2S-SB-GNB3 1-10'	S115361-10	Solid
A2C-SB-GNH4	S115388-1	Solid
A2S-SB-GNF7	S115388-2	Solid
A2S-SB-GNC4	S115388-3	Solid
A2S-SB-GNE2	S115388-4	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)		✔	Recoveries of surrogate compounds 2,4,6-tribromophenol and 2-fluorobiphenyl were outside established limits (low-biased) for samples A2C-SB-GNH4 and A2S-SB-GNF7, respectively. The samples were re-extracted in batch 0906B and re-analyzed on September 7, 2001. No action taken.
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Benzyl alcohol and benzoic acid were evaluated as tentatively identified compounds (TIC). TICs will not be reported for this project.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA02 Log No. S1-115361 and S1-115388 Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2C-SB-GNB4 1-10'	S115361-4	Solid
A2C-SB-GNC4 1-10'	S115361-5	Solid
A2C-SB-GNE5 1-10'	S115361-6	Solid
Trip Blank	S115361-7	Liquid
A2C-SB-GNH4	S115388-1	Solid
Trip Blank	S115388-5	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes were not detected in trip blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?		✔	A lab control sample/lab control sample duplicate has been provided for quality control.
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA03 Log No. S1-15498 Explosives	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SS-ODPIT-13 0-1'	S115498-1	Solid
A2A-SS-ODPIT-14 0-1'	S115498-2	Solid
A2A-SS-ODPIT-02 0-1'	S115498-3	Solid
A2A-SS-ODPIT-03A 0-1'	S115498-4	Solid
A2A-SS-ODPIT-04 0-1'	S115498-5	Solid
A2A-SS-ODPIT-05 0-1'	S115498-6	Solid
A2A-SS-ODPIT-06 0-1'	S115498-7	Solid
A2A-SS-ODPIT-07 0-1'	S115498-8	Solid
A2A-SS-ODPIT-08 0-1'	S115498-9	Solid
A2A-SS-ODPIT-09 0-1'	S115498-10	Solid
A2A-SS-ODPIT-10 0-1'	S115498-11	Solid
A2A-SS-ODPIT-11 0-1'	S115498-12	Solid
A2A-SS-ODPIT-12 0-1'	S115498-13	Solid
A2A-SS-ODPIT-12 (0) 0-1'	S115498-14	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.			Not applicable to this package.
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA03 Log No. S1-15498 Metals	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SS-ODPIT-13 0-1'	S115498-1	Solid
A2A-SS-ODPIT-14 0-1'	S115498-2	Solid
A2A-SS-ODPIT-02 0-1'	S115498-3	Solid
A2A-SS-ODPIT-03A 0-1'	S115498-4	Solid
A2A-SS-ODPIT-04 0-1'	S115498-5	Solid
A2A-SS-ODPIT-05 0-1'	S115498-6	Solid
A2A-SS-ODPIT-06 0-1'	S115498-7	Solid
A2A-SS-ODPIT-07 0-1'	S115498-8	Solid
A2A-SS-ODPIT-08 0-1'	S115498-9	Solid
A2A-SS-ODPIT-09 0-1'	S115498-10	Solid
A2A-SS-ODPIT-10 0-1'	S115498-11	Solid
A2A-SS-ODPIT-11 0-1'	S115498-12	Solid
A2A-SS-ODPIT-12 0-1'	S115498-13	Solid
A2A-SS-ODPIT-12 (0) 0-1'	S115498-14	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	Antimony and chromium had a spiked sample recovery below control limits due to matrix interference in the MS/MSD sample A2A-SS-ODPIT-13 0-1'. Positive results will be flagged "J" and non-detects will be flagged "UJ" in all samples in this SDG for these samples. Aluminum, iron and manganese have spiked sample recoveries not within control limits due to due to the abundance of the elements in relation to the amount of spike added to sample A2A-SS-ODPIT-13 0-1'. No action will be taken on non-detects and positive results will be flagged "J" for these analytes in all SDG samples.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	Sample A2A-SS-ODPIT-14 0-1' RPDs exceeded advisory limits for chromium and iron due to the abundance of the element in relation to the amount of spike added to the sample. See above flags for chromium and iron; in addition, non-detects for iron will be flagged "UJ".
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	The serial dilution for sample A2A-SS-ODPIT-14 0-1' exceeded limits for chromium and iron. See above flags for chromium and iron. Samples A2A-SS-ODPIT-13 0-1', A2A-SS-ODPIT-12 0-1', and A2A-SS-ODPIT-12 (0) 0-1' were analyzed at 1:2 dilutions for manganese due to the elements abundance and for antimony, arsenic, chromium, cobalt, iron, lead, magnesium, selenium, silver, and thallium because they are IEC's (inter-element correction factors) of manganese. No action taken.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA03 Log No. S1-15498 TCL Semi-Volatiles	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SS-ODPIT-13 0-1'	S115498-1	Solid
A2A-SS-ODPIT-14 0-1'	S115498-2	Solid
A2A-SS-ODPIT-02 0-1'	S115498-3	Solid
A2A-SS-ODPIT-03A 0-1'	S115498-4	Solid
A2A-SS-ODPIT-04 0-1'	S115498-5	Solid
A2A-SS-ODPIT-05 0-1'	S115498-6	Solid
A2A-SS-ODPIT-06 0-1'	S115498-7	Solid
A2A-SS-ODPIT-07 0-1'	S115498-8	Solid
A2A-SS-ODPIT-08 0-1'	S115498-9	Solid
A2A-SS-ODPIT-09 0-1'	S115498-10	Solid
A2A-SS-ODPIT-10 0-1'	S115498-11	Solid
A2A-SS-ODPIT-11 0-1'	S115498-12	Solid
A2A-SS-ODPIT-12 0-1'	S115498-13	Solid
A2A-SS-ODPIT-12 (0) 0-1'	S115498-14	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.			Not applicable to this package.
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		A LCS analyzed concurrently with samples met acceptance criteria.
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	MS/MSD (sample A2A-SS-ODPIT-13 0-1') recoveries for spiking compound 4-nitrophenol were outside advisory limits (low-biased). All other data quality indicators were acceptable; no action taken.
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Benzyl alcohol and benzoic acid were evaluated as tentatively identified compounds (TIC). TICs will not be reported for this project.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA03 Log No. S1-15498 Volatiles	Sample Matrix: X Soil X Water Other
Report Date: September 27, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SS-ODPIT-13 0-1'	S115498-1	Solid
A2A-SS-ODPIT-14 0-1'	S115498-2	Solid
A2A-SS-ODPIT-02 0-1'	S115498-3	Solid
A2A-SS-ODPIT-03A 0-1'	S115498-4	Solid
A2A-SS-ODPIT-04 0-1'	S115498-5	Solid
A2A-SS-ODPIT-05 0-1'	S115498-6	Solid
A2A-SS-ODPIT-06 0-1'	S115498-7	Solid
A2A-SS-ODPIT-07 0-1'	S115498-8	Solid
A2A-SS-ODPIT-08 0-1'	S115498-9	Solid
A2A-SS-ODPIT-09 0-1'	S115498-10	Solid
A2A-SS-ODPIT-10 0-1'	S115498-11	Solid
A2A-SS-ODPIT-11 0-1'	S115498-12	Solid
A2A-SS-ODPIT-12 0-1'	S115498-13	Solid
A2A-SS-ODPIT-12 (0) 0-1'	S115498-14	Solid
Trip Blank #131D	S115498-15	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in trip blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?		✔	Due to insufficient sample volume, a matrix spike/matrix spike duplicate was not performed; therefore, a lab control sample/lab control sample duplicate has been provided for quality control. No action taken.
10. Was the MS sample a project sample?		✔	See comment above.
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA04 Log No. S1-15604 Explosives	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-GND6 0-1'	S115604-1	Solid
A2A-SS-GNK7 0-1'	S115604-2	Solid
A2A-SS-ODPIT-01 0-1'	S115604-3	Solid
A2A-SS-ODPIT-15 0-1'	S115604-4	Solid
A2A-SS-ODPIT-15 0-1' (DUP)	S115604-5	Solid
A2C-SS-ODPIT-26C 0-1'	S115604-6	Solid
A2C-SS-ODPIT-30S 0-1'	S115604-7	Solid
A2C-SS-ODPIT-27C 0-1'	S115604-8	Solid
A2C-SS-ODPIT-29C 0-1'	S115604-9	Solid
A2C-SS-ODPIT-28W 0-1'	S115604-10	Solid
A2C-SS-ODPIT-34W 0-1'	S115604-11	Solid
A2C-SS-GNB3 0-1'	S115604-12	Solid
A2C-SS-GNG4 0-1'	S115604-13	Solid
A2C-SS-GNE2 0-1'	S115604-14	Solid
A2C-SS-GND3 0-1'	S115604-15	Solid
A2C-SS-GNC4 0-1'	S115604-16	Solid
A2C-SS-GNF7 0-1'	S115604-17	Solid
A2C-SS-GNB4 0-1'	S115604-18	Solid
A2C-SS-GND2 0-1'	S115604-19	Solid
A2C-SS-GNH4 0-1'	S115604-20	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	MS/MSD (sample A2B-SS-GND6 0-1') percent recovery for nitroglycerin were outside advisory limits due to the abundance of nitroglycerin in the unspiked sample. Positive results will be flagged "J" for these analytes in all SDG samples; no action will be taken for non-detects.
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Due to the abundance of nitroglycerin, samples A2B-SS-GND6 0-1' and A2A-SS-ODPIT-15 0-1' were analyzed at a secondary dilution of 1:2. No action taken.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA04 Log No. S1-15604 Metals	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-GND6 0-1'	S115604-1	Solid
A2A-SS-GNK7 0-1'	S115604-2	Solid
A2A-SS-ODPIT-01 0-1'	S115604-3	Solid
A2A-SS-ODPIT-15 0-1'	S115604-4	Solid
A2A-SS-ODPIT-15 0-1' (DUP)	S115604-5	Solid
A2C-SS-ODPIT-26C 0-1'	S115604-6	Solid
A2C-SS-ODPIT-30S 0-1'	S115604-7	Solid
A2C-SS-ODPIT-27C 0-1'	S115604-8	Solid
A2C-SS-ODPIT-29C 0-1'	S115604-9	Solid
A2C-SS-ODPIT-28W 0-1'	S115604-10	Solid
A2C-SS-ODPIT-34W 0-1'	S115604-11	Solid
A2C-SS-GNB3 0-1'	S115604-12	Solid
A2C-SS-GNG4 0-1'	S115604-13	Solid
A2C-SS-GNE2 0-1'	S115604-14	Solid
A2C-SS-GND3 0-1'	S115604-15	Solid
A2C-SS-GNC4 0-1'	S115604-16	Solid
A2C-SS-GNF7 0-1'	S115604-17	Solid
A2C-SS-GNB4 0-1'	S115604-18	Solid
A2C-SS-GND2 0-1'	S115604-19	Solid
A2C-SS-GNH4 0-1'	S115604-20	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	Antimony and manganese had a spiked sample recovery not within the control limits due to matrix interference in the MS/MSD sample A2B-SS-GND6 0-1'. Positive results will be flagged "J" and non-detects will be flagged "UJ" in all samples in this SDG. Aluminum, copper and iron have spiked sample recoveries not within control limits due to due to the abundance of the elements in relation to the amount of spike added to sample A2B-SS-GND6 0-1'. No action will be taken on non-detects and positive results will be flagged "J" for these analytes in all SDG samples.
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	The soil preparation blank was out of control limits for sodium; therefore, the entire batch was rerun for sodium. Over half the thallium samples had high percent RPDs between sample replicates; therefore, all the samples were reanalyzed for thallium. Due to inter-element interference caused by manganese, samples A2A-SS-ODPIT-15 0-1' and A2A-SS-ODPIT-15 0-1' (DUP) were reanalyzed at 1:2 dilutions for thallium. Method specific procedures were followed. No action taken on these activities.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA04 Log No. S1-15604 TCL Semi-Volatiles	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: September 27, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-GND6 0-1'	S115604-1	Solid
A2A-SS-GNK7 0-1'	S115604-2	Solid
A2A-SS-ODPIT-01 0-1'	S115604-3	Solid
A2A-SS-ODPIT-15 0-1'	S115604-4	Solid
A2A-SS-ODPIT-15 0-1' (DUP)	S115604-5	Solid
A2C-SS-ODPIT-26C 0-1'	S115604-6	Solid
A2C-SS-ODPIT-30S 0-1'	S115604-7	Solid
A2C-SS-ODPIT-27C 0-1'	S115604-8	Solid
A2C-SS-ODPIT-29C 0-1'	S115604-9	Solid
A2C-SS-ODPIT-28W 0-1'	S115604-10	Solid
A2C-SS-ODPIT-34W 0-1'	S115604-11	Solid
A2C-SS-GNB3 0-1'	S115604-12	Solid
A2C-SS-GNG4 0-1'	S115604-13	Solid
A2C-SS-GNE2 0-1'	S115604-14	Solid
A2C-SS-GND3 0-1'	S115604-15	Solid
A2C-SS-GNC4 0-1'	S115604-16	Solid
A2C-SS-GNF7 0-1'	S115604-17	Solid
A2C-SS-GNB4 0-1'	S115604-18	Solid
A2C-SS-GND2 0-1'	S115604-19	Solid
A2C-SS-GNH4 0-1'	S115604-20	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Benzyl alcohol and benzoic acid were evaluated as tentatively identified compounds (TIC). TICs will not be reported for this project.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA04 Log No. S1-15604 Volatiles	Sample Matrix: X Soil X Water Other
Report Date: September 27, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-GND6 0-1'	S115604-1	Solid
A2A-SS-GNK7 0-1'	S115604-2	Solid
A2A-SS-ODPIT-01 0-1'	S115604-3	Solid
A2A-SS-ODPIT-15 0-1'	S115604-4	Solid
A2A-SS-ODPIT-15 0-1' (DUP)	S115604-5	Solid
A2C-SS-ODPIT-26C 0-1'	S115604-6	Solid
A2C-SS-ODPIT-30S 0-1'	S115604-7	Solid
A2C-SS-ODPIT-27C 0-1'	S115604-8	Solid
A2C-SS-ODPIT-29C 0-1'	S115604-9	Solid
A2C-SS-ODPIT-28W 0-1'	S115604-10	Solid
A2C-SS-ODPIT-34W 0-1'	S115604-11	Solid
A2C-SS-GNB3 0-1'	S115604-12	Solid
A2C-SS-GNG4 0-1'	S115604-13	Solid
A2C-SS-GNE2 0-1'	S115604-14	Solid
A2C-SS-GND3 0-1'	S115604-15	Solid
A2C-SS-GNC4 0-1'	S115604-16	Solid
A2C-SS-GNF7 0-1'	S115604-17	Solid
A2C-SS-GNB4 0-1'	S115604-18	Solid
A2C-SS-GND2 0-1'	S115604-19	Solid
A2C-SS-GNH4 0-1'	S115604-20	Solid
Trip Blank 8-29	S115604-21	Liquid
Trip Blank 8-28	S115604-22	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in trip blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?		✔	Due to insufficient sample volume, a MS/MSD was not performed; therefore, a lab control sample/lab control sample duplicate has been provided for quality control. No action taken.
10. Was the MS sample a project sample?		✔	See comment above.
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA05 Log No. S1-15604A and S1-15752 Explosives	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 28, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/21/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2C-SS-GNE5 0-1'	S115604A-1	Solid
A2C-SS-GNE5 0-1' (DUP)	S115604A-2	Solid
A2C-SS-GNB4 0-1' (DUP)	S115604A-3	Solid
A2B-SS-GNI4 0-1'	S115604A-4	Solid
A2B-SS-GNL6 0-1'	S115604A-5	Solid
A2B-SS-GNJ7 0-1'	S115604A-6	Solid
A2B-SS-GNF6 0-1'	S115604A-7	Solid
A2B-SS-GNC4 0-1'	S115604A-8	Solid
A2B-SS-GNC2 0-1'	S115604A-9	Solid
A2B-SS-GNF8 0-1'	S115604A-10	Solid
A2B-SS-GND8 0-1'	S115604A-11	Solid
A2C-SS-ODPIT-35W 0-1'	S115604A-12	Solid
Rinsate Blank RB0812801	S115604A-13	Liquid
A2B-SB-GNF6 1-10'	S115752-1	Solid
A2B-SB-GNI4 1-10'	S115752-2	Solid
A2B-SB-GNF8 1-10'	S115752-3	Solid
A2B-SB-GNJ7 1-10'	S115752-4	Solid
A2B-SB-GNK7 1-10'	S115752-5	Solid
A2B-SB-GNL6 1-10'	S115752-6	Solid
Rinsate Blank 090501	S115752-7	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Due to the abundance of nitroglycerin, samples A2B-SS-GNL6 0-1' were analyzed at a secondary dilution of 1:5. No action taken.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA05 Log No. S1-15604A and S1-15752 Metals	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 28, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/21/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2C-SS-GNE5 0-1'	S115604A-1	Solid
A2C-SS-GNE5 0-1' (DUP)	S115604A-2	Solid
A2C-SS-GNB4 0-1' (DUP)	S115604A-3	Solid
A2B-SS-GNI4 0-1'	S115604A-4	Solid
A2B-SS-GNL6 0-1'	S115604A-5	Solid
A2B-SS-GNJ7 0-1'	S115604A-6	Solid
A2B-SS-GNF6 0-1'	S115604A-7	Solid
A2B-SS-GNC4 0-1'	S115604A-8	Solid
A2B-SS-GNC2 0-1'	S115604A-9	Solid
A2B-SS-GNF8 0-1'	S115604A-10	Solid
A2B-SS-GND8 0-1'	S115604A-11	Solid
A2C-SS-ODPIT-35W 0-1'	S115604A-12	Solid
Rinsate Blank RB0812801	S115604A-13	Liquid
A2B-SB-GNF6 1-10'	S115752-1	Solid
A2B-SB-GNI4 1-10'	S115752-2	Solid
A2B-SB-GNF8 1-10'	S115752-3	Solid
A2B-SB-GNJ7 1-10'	S115752-4	Solid
A2B-SB-GNK7 1-10'	S115752-5	Solid
A2B-SB-GNL6 1-10'	S115752-6	Solid
Rinsate Blank 090501	S115752-7	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	Antimony had a spiked sample recovery not within the advisory limits due to matrix interference in the MS/MSD sample A2C-SS-GNE5 0-1'. Positive results will be flagged "J" and non-detects will be flagged "UJ" in all samples in this SDG. Aluminum, iron and manganese have spiked sample recoveries not within advisory limits due to due to the abundance of the elements in relation to the amount of spike added to sample A2B-SS-GND6 0-1'. No action will be taken on non-detects and positive results will be flagged "J" for these analytes in all SDG samples.
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	The serial dilution for sample A2C-SS-GNE5 0-1' exceeded the advisory limits for potassium and zinc; therefore, all the associated results were flagged with a "J". Sample A2B-SB-GNF8 1-10' was reanalyzed for thallium due to a high percent RPD between sample replicates.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA05 Log No. S1-15604A and S1-15752 TCL Semi-Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 28, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/21/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2C-SS-GNE5 0-1'	S115604A-1	Solid
A2C-SS-GNE5 0-1' (DUP)	S115604A-2	Solid
A2C-SS-GNB4 0-1' (DUP)	S115604A-3	Solid
A2B-SS-GNI4 0-1'	S115604A-4	Solid
A2B-SS-GNL6 0-1'	S115604A-5	Solid
A2B-SS-GNJ7 0-1'	S115604A-6	Solid
A2B-SS-GNF6 0-1'	S115604A-7	Solid
A2B-SS-GNC4 0-1'	S115604A-8	Solid
A2B-SS-GNC2 0-1'	S115604A-9	Solid
A2B-SS-GNF8 0-1'	S115604A-10	Solid
A2B-SS-GND8 0-1'	S115604A-11	Solid
A2C-SS-ODPIT-35W 0-1'	S115604A-12	Solid
Rinsate Blank RB0812801	S115604A-13	Liquid
A2B-SB-GNF6 1-10'	S115752-1	Solid
A2B-SB-GNI4 1-10'	S115752-2	Solid
A2B-SB-GNF8 1-10'	S115752-3	Solid
A2B-SB-GNJ7 1-10'	S115752-4	Solid
A2B-SB-GNK7 1-10'	S115752-5	Solid
A2B-SB-GNL6 1-10'	S115752-6	Solid
Rinsate Blank 090501	S115752-7	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Benzyl alcohol and benzoic acid were evaluated as tentatively identified compounds (TIC). TICs will not be reported for this project.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA05 Log No. S1-15604A and S1-15752 Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 28, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/21/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2C-SS-GNE5 0-1'	S115604A-1	Solid
A2C-SS-GNE5 0-1' (DUP)	S115604A-2	Solid
A2C-SS-GNB4 0-1' (DUP)	S115604A-3	Solid
A2B-SS-GNI4 0-1'	S115604A-4	Solid
A2B-SS-GNL6 0-1'	S115604A-5	Solid
A2B-SS-GNJ7 0-1'	S115604A-6	Solid
A2B-SS-GNF6 0-1'	S115604A-7	Solid
A2B-SS-GNC4 0-1'	S115604A-8	Solid
A2B-SS-GNC2 0-1'	S115604A-9	Solid
A2B-SS-GNF8 0-1'	S115604A-10	Solid
A2B-SS-GND8 0-1'	S115604A-11	Solid
A2C-SS-ODPIT-35W 0-1'	S115604A-12	Solid
Rinsate Blank RB0812801	S115604A-13	Liquid
A2B-SB-GNF6 1-10'	S115752-1	Solid
A2B-SB-GNI4 1-10'	S115752-2	Solid
A2B-SB-GNF8 1-10'	S115752-3	Solid
A2B-SB-GNJ7 1-10'	S115752-4	Solid
A2B-SB-GNK7 1-10'	S115752-5	Solid
A2B-SB-GNL6 1-10'	S115752-6	Solid
Rinsate Blank 090501	S115752-7	Liquid
Trip Blank #1 (1/28/01)	S115752-8	Liquid
Trip Blank #2	S115752-9	Liquid
Trip Blank #3	S115752-10	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in trip blanks or rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?		✔	Due to insufficient sample volume, a MS/MSD was not performed; therefore, a lab control sample/lab control sample duplicate has been provided for quality control. No action taken.
10. Was the MS sample a project sample?		✔	See comment above.
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA06 Log No. S1-15642 Explosives	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 28, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/21/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-ODPIT-25N 0-1'	S115642-1	Solid
A2B-SS-ODPIT-16S 0-1'	S115642-2	Solid
A2B-SS-ODPIT-17C 0-1'	S115642-3	Solid
A2B-SS-ODPIT-18C 0-1'	S115642-4	Solid
A2B-SS-ODPIT-18C (D) 0-1'	S115642-5	Solid
A2C-SS-ODPIT-31CW 0-1'	S115642-6	Solid
A2C-SS-ODPIT-32E 0-1'	S115642-7	Solid
A2C-SS-ODPIT-33N 0-1'	S115642-8	Solid
A2C-SS-ODPIT-23E 0-1'	S115642-9	Solid
A2C-SS-ODPIT-20C 0-1'	S115642-10	Solid
A2C-SS-ODPIT-21E 0-1'	S115642-11	Solid
A2C-SS-ODPIT-22C 0-1'	S115642-12	Solid
A2C-SS-ODPIT-24C 0-1'	S115642-13	Solid
A2C-SS-ODPIT-19C 0-1'	S115642-14	Solid
Rinsate Blank RB082901	S115642-15	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Due to the abundance of nitroglycerin, sample A2B-SS-ODPIT-17C 0-1'was analyzed at a secondary dilution of 1:2. No action taken.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA06 Log No. S1-15642 Metals	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 28, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/21/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-ODPIT-25N 0-1'	S115642-1	Solid
A2B-SS-ODPIT-16S 0-1'	S115642-2	Solid
A2B-SS-ODPIT-17C 0-1'	S115642-3	Solid
A2B-SS-ODPIT-18C 0-1'	S115642-4	Solid
A2B-SS-ODPIT-18C (D) 0-1'	S115642-5	Solid
A2C-SS-ODPIT-31CW 0-1'	S115642-6	Solid
A2C-SS-ODPIT-32E 0-1'	S115642-7	Solid
A2C-SS-ODPIT-33N 0-1'	S115642-8	Solid
A2C-SS-ODPIT-23E 0-1'	S115642-9	Solid
A2C-SS-ODPIT-20C 0-1'	S115642-10	Solid
A2C-SS-ODPIT-21E 0-1'	S115642-11	Solid
A2C-SS-ODPIT-22C 0-1'	S115642-12	Solid
A2C-SS-ODPIT-24C 0-1'	S115642-13	Solid
A2C-SS-ODPIT-19C 0-1'	S115642-14	Solid
Rinsate Blank RB082901	S115642-15	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	Antimony, chromium, cobalt, and magnesium had percent recoveries not within the advisory limits due to matrix interference in the MS/MSD sample A2B-SS-ODPIT-25N 0-1'. Positive results will be flagged "J" and non-detects will be flagged "UJ" in all samples in this SDG. Aluminum, iron and manganese have spiked sample recoveries not within advisory limits due to due to the abundance of the elements in relation to the amount of spike added to sample A2B-SS-ODPIT-25N 0-1'. No action will be taken on non-detects and positive results will be flagged "J" for these analytes in all SDG samples.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	The sample duplicate's RPD for sample A2B-SS-ODPIT-25N 0-1' exceeded the advisory limits for manganese. See flag for manganese above; in addition, non-detects will be flagged "UJ".
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	The serial dilution for sample A2C-SS-GNE5 0-1' exceeded the advisory limits for potassium; therefore, all the associated results were flagged with a "J". The soil preparation blank for thallium had a high negative result and was reanalyzed for thallium only. No action required. Samples A2B-SS-ODPIT-17C 0-1' and A2B-SS-ODPIT-18C (D) 0-1' were reanalyzed for thallium due to a high percent RSD between the sample replicates. No action required. Sample A2B-SS-ODPIT-18C 0-1' was reanalyzed for antimony due to a high percent RSD between sample replicates. No action required. Sample A2C-SS-ODPIT-24C 0-1' had a high negative result for selenium and was reanalyzed. No action required.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA06 Log No. S1-15642 TCL Semi-Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 28, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/21/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-ODPIT-25N 0-1'	S115642-1	Solid
A2B-SS-ODPIT-16S 0-1'	S115642-2	Solid
A2B-SS-ODPIT-17C 0-1'	S115642-3	Solid
A2B-SS-ODPIT-18C 0-1'	S115642-4	Solid
A2B-SS-ODPIT-18C (D) 0-1'	S115642-5	Solid
A2C-SS-ODPIT-31CW 0-1'	S115642-6	Solid
A2C-SS-ODPIT-32E 0-1'	S115642-7	Solid
A2C-SS-ODPIT-33N 0-1'	S115642-8	Solid
A2C-SS-ODPIT-23E 0-1'	S115642-9	Solid
A2C-SS-ODPIT-20C 0-1'	S115642-10	Solid
A2C-SS-ODPIT-21E 0-1'	S115642-11	Solid
A2C-SS-ODPIT-22C 0-1'	S115642-12	Solid
A2C-SS-ODPIT-24C 0-1'	S115642-13	Solid
A2C-SS-ODPIT-19C 0-1'	S115642-14	Solid
Rinsate Blank RB082901	S115642-15	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	Benzyl alcohol and benzoic acid were evaluated as tentatively identified compounds (TIC). TICs will not be reported for this project.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA06 Log No. S1-15642 Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: September 28, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/21/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SS-ODPIT-25N 0-1'	S115642-1	Solid
A2B-SS-ODPIT-16S 0-1'	S115642-2	Solid
A2B-SS-ODPIT-17C 0-1'	S115642-3	Solid
A2B-SS-ODPIT-18C 0-1'	S115642-4	Solid
A2B-SS-ODPIT-18C (D) 0-1'	S115642-5	Solid
A2C-SS-ODPIT-31CW 0-1'	S115642-6	Solid
A2C-SS-ODPIT-32E 0-1'	S115642-7	Solid
A2C-SS-ODPIT-33N 0-1'	S115642-8	Solid
A2C-SS-ODPIT-23E 0-1'	S115642-9	Solid
A2C-SS-ODPIT-20C 0-1'	S115642-10	Solid
A2C-SS-ODPIT-21E 0-1'	S115642-11	Solid
A2C-SS-ODPIT-22C 0-1'	S115642-12	Solid
A2C-SS-ODPIT-24C 0-1'	S115642-13	Solid
A2C-SS-ODPIT-19C 0-1'	S115642-14	Solid
Rinsate Blank RB082901	S115642-15	Liquid
A2C-SB-GND2 1-10'	S115642-16	Solid
A2C-SB-GND3 1-10'	S115642-17	Solid
A2C-SB-GNE2 1-10'	S115642-18	Solid
A2C-SB-GNB3 1-10'	S115642-19	Solid
A2C-SB-GNG4 1-10'	S115642-20	Solid
Trip Blank 08/29	S115642-21	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

__ All preparation and analysis holding time requirements were met.

X_ The following holding time violations are noted: Samples A2C-SS-ODPIT-24C 0-1' and A2C-SS-ODPIT-19C 0-1' were out of hold for analysis due to the events of September 11, 2000. No analytes were detected in these samples; no action taken.

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in trip blanks or rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?		✔	Due to insufficient sample volume, a MS/MSD was not performed; therefore, a lab control sample/lab control sample duplicate has been provided for quality control. No action taken.
10. Was the MS sample a project sample?		✔	See comment above.
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA07 Log No. S1-15953, S1-15956 and S1-15968 Explosives	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: October 11, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SB-GND8 1-10'	S115953-1	Solid
02A2B-SB-GN08 1-10'	S115953-2	Solid
A2A-SB-GNF4 1-10'	S115953-3	Solid
A2A-SB-GNF3 1-10'	S115953-4	Solid
A2A-SS-GNF4 0-1'	S115953-5	Solid
A2A-SS-GNF3 0-1'	S115953-6	Solid
A2B-SB-GNC2 1-10'	S115956-1	Solid
A2B-SB-GNC4 1-10'	S115956-2	Solid
A2B-SB-GND6 1-10'	S115956-3	Solid
A2A-SB-GNH6 1-10'	S115968-1	Solid
A2A-SB-GN04 1-10'	S115968-2	Solid
A2A-SB-GNH4 1-10'	S115968-3	Solid
02A2A-SB-GNH4 1-10'	S115968-4	Solid
A2A-SB-GN01 1-10'	S115968-5	Solid
A2A-SS-GNH6 0- 1'	S115968-6	Solid
A2A-SS-GN04 0- 1'	S115968-7	Solid
A2A-SS-GN01 0- 1'	S115968-8	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

__The following holding time violations are

Corrections/Information Required:
None.

Corrections/Information Received:
Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		Laboratory control samples have been provided for quality control.
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	In the continuing calibration verification 1I28M28, the % difference exceeded the maximum criteria for nitroglycerin. Thus, the grand mean exception rule was applied. This rule is described in SW-846 and states that when one or more compounds fails to meet acceptance criteria, the average response factor from the initial calibration may be used for quantitation if the average % difference of all compounds in the continuing calibration is less than or equal to 15 %. The laboratory has correctly implemented this criteria; no action taken.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA07 Log No. S1-15953, S1-15956 and S1-15968 Metals	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: October 11, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SB-GND8 1-10'	S115953-1	Solid
02A2B-SB-GN08 1-10'	S115953-2	Solid
A2A-SB-GNF4 1-10'	S115953-3	Solid
A2A-SB-GNF3 1-10'	S115953-4	Solid
A2B-SB-GNC2 1-10'	S115956-1	Solid
A2B-SB-GNC4 1-10'	S115956-2	Solid
A2B-SB-GND6 1-10'	S115956-3	Solid
A2A-SB-GNH6 1-10'	S115968-1	Solid
A2A-SB-GN04 1-10'	S115968-2	Solid
A2A-SB-GNH4 1-10'	S115968-3	Solid
02A2A-SB-GNH4 1-10'	S115968-4	Solid
A2A-SB-GN01 1-10'	S115968-5	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	Antimony and chromium have spiked sample recoveries not within control limits due to matrix interference in the MS/MSD sample A2B-SB-GND8 1-10'. Positive results will be flagged "J" and non-detects will be flagged "UJ" for all results in this SDG.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	Chromium, Iron and manganese RPDs were not within limits due to the abundance of the elements in relation to the amount of spike added to the sample. Positive results will be flagged "J" for these analytes in all SDG samples; no action will be taken for non-detects.
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		Not applicable.
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	The serial dilution for sample A2B-SB-GND8 1-10' exceeded limits for zinc. Positive results will be flagged "J" and non-detects will be flagged "UJ" in all samples in this SDG.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA07 Log No. S1-15953, S1-15956 and S1-15968 TCL Semi-Volatiles	Sample Matrix: X Soil ___ Water ___ Other ___
Report Date: October 11, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SB-GND8 1-10'	S115953-1	Solid
02A2B-SB-GN08 1-10'	S115953-2	Solid
A2A-SB-GNF4 1-10'	S115953-3	Solid
A2A-SB-GNF3 1-10'	S115953-4	Solid
A2A-SS-GNF4 0- 1'	S115953-5	Solid
A2A-SS-GNF3 0-1'	S115953-6	Solid
A2B-SB-GNC2 1-10'	S115956-1	Solid
A2B-SB-GNC4 1-10'	S115956-2	Solid
A2B-SB-GND6 1-10'	S115956-3	Solid
A2A-SB-GNH6 1-10'	S115968-1	Solid
A2A-SB-GN04 1-10'	S115968-2	Solid
A2A-SB-GNH4 1-10'	S115968-3	Solid
02A2A-SB-GNH4 1-10'	S115968-4	Solid
A2A-SB-GN01 1-10'	S115968-5	Solid
A2A-SS-GNH6 0- 1'	S115968-6	Solid
A2A-SS-GN04 0- 1'	S115968-7	Solid
A2A-SS-GN01 0- 1'	S115968-8	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

X All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.			Not applicable to this package.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		A lab control sample analyzed concurrently with client samples met acceptance criteria and has been provided.
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?		✔	RPD of 1,2,4-trichlorobenzene was outside advisory limits (high biased) in the MS/MSD. No action taken.
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA07 Log No. . S1-15953, S1-15956 and S1-15968 Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: October 11, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/20/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2B-SB-GND8 1-10'	S115953-1	Solid
02A2B-SB-GN08 1-10'	S115953-2	Solid
A2A-SB-GNF4 1-10'	S115953-3	Solid
A2A-SB-GNF3 1-10'	S115953-4	Solid
A2A-SS-GNF4 0- 1'	S115953-5	Solid
A2A-SS-GNF3 0-1'	S115953-6	Solid
Trip Blank	S115953-7	Liquid
A2B-SB-GNC2 1-10'	S115956-1	Solid
A2B-SB-GNC4 1-10'	S115956-2	Solid
A2B-SB-GND6 1-10'	S115956-3	Solid
Trip Blank	S115956-4	Liquid
A2A-SB-GNH6 1-10'	S115968-1	Solid
A2A-SB-GN04 1-10'	S115968-2	Solid
A2A-SB-GNH4 1-10'	S115968-3	Solid
02A2A-SB-GNH4 1-10'	S115968-4	Solid
A2A-SB-GN01 1-10'	S115968-5	Solid
A2A-SS-GNH6 0- 1'	S115968-6	Solid
A2A-SS-GN04 0- 1'	S115968-7	Solid
A2A-SS-GN01 0- 1'	S115968-8	Solid
A2C-SB-GNF7 10'	S115968-9	Solid
Trip Blank	S115958-10	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes were not detected in trip blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		Due to insufficient sample volume, a LCS/LCSD has been provided for quality control.
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?		✔	Due to insufficient sample volume a MS/MSD was not performed; therefore, a LCS/LCSD has been provided for quality control. No action taken.
10. Was the MS sample a project sample?		✔	See comment above.
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA08 Log No. S1-15992 and S1-16124A Explosives	Sample Matrix: X Soil X Water ___ Other ___
Report Date: October 17, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/13/02

Acceptable: X Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SB-GNE1 1-10'	S115992-1	Solid
A2A-SB-GNE3 1-10'	S115992-2	Solid
A2A-SB-GNF6 1-10'	S115992-3	Solid
A2A-SB-GNG5 1-10'	S115992-4	Solid
A2A-SB-GNE1 0-1'	S115992-5	Solid
A2A-SB-GNE3 0-1'	S115992-6	Solid
A2A-SB-GNF6 0-1'	S115992-7	Solid
A2A-SB-GNG5 0-1'	S115992-8	Solid
A2A-SB-GNH4 0-1'	S115992-9	Solid
02A2A-SS-GNH4 0-1'	S115992-10	Solid
RB091201	S115992-11	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

__ All preparation and analysis holding time requirements were met.

X The following holding time violations are noted: Sample A2A-SB-GNE1 1-10' was the designated matrix spike/matrix spike duplicate. Extraction batch 0919N was incorrectly spiked for method 8332; therefore, all samples and associated QC were re-extracted (outside holding time) in batch 0927N and all spikes recovered within control limits. Sample results concurred and all data has been provided.

Corrections/Information Required:
None.

Corrections/Information Received:
Verified By: NA Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?		✔	Sample A2A-SB-GNE1 1-10' was the designated MS/MSD. Extraction batch 0919N was incorrectly spiked for method 8332; therefore, all samples and associated QC were re-extracted (outside holding time) in batch 0927N and all spikes recovered within control limits. Sample results concurred and all data has been provided. No action taken.
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA08 Log No. S1-15992 and S1-16124A Metals	Sample Matrix: X Soil X Water ___ Other ___
Report Date: October 17, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/13/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SB-GNE1 1-10'	S115992-1	Solid
A2A-SB-GNE3 1-10'	S115992-2	Solid
A2A-SB-GNF6 1-10'	S115992-3	Solid
A2A-SB-GNG5 1-10'	S115992-4	Solid
RB091201	S115992-11	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	MS/MSD percent recovery for sample A2A-SB-GNE1 1-10' was not within advisory limits for antimony, copper, mercury, or vanadium. Positive results will be flagged "J" and non-detects will be flagged "UJ" for all results in this SDG. MS/MSD percent recoveries for sample A2A-SB-GNE1 1-10' were not within advisory limits for aluminum, chromium, iron, or manganese due to the abundance of the elements in relation to the amount of spike added to the sample. Positive results will be flagged "J" for these analytes in all SDG samples; no action will be taken for non-detects.
12. Were the MS/MSD RPDs within QAPP specifications?		✔	The sample duplicate's RPD for sample A2A-SB-GNE1 1-10' exceeded the advisory limits for iron and manganese. See flag for iron and manganese above.
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA08 Log No. S1-15992 and S1-16124A TCL Semi-Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: October 17, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/13/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SB-GNE1 1-10'	S115992-1	Solid
A2A-SB-GNE3 1-10'	S115992-2	Solid
A2A-SB-GNF6 1-10'	S115992-3	Solid
A2A-SB-GNG5 1-10'	S115992-4	Solid
A2A-SB-GNE1 0-1'	S115992-5	Solid
A2A-SB-GNE3 0-1'	S115992-6	Solid
A2A-SB-GNF6 0-1'	S115992-7	Solid
A2A-SB-GNG5 0-1'	S115992-8	Solid
A2A-SB-GNH4 0-1'	S115992-9	Solid
02A2A-SS-GNH4 0-1'	S115992-10	Solid
RB091201	S115992-11	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA08 Log No. S1-15992 and S1-16124A Volatiles	Sample Matrix: X Soil X Water ___ Other ___
Report Date: October 17, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/16/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
A2A-SB-GNE1 1-10'	S115992-1	Solid
A2A-SB-GNE3 1-10'	S115992-2	Solid
A2A-SB-GNF6 1-10'	S115992-3	Solid
A2A-SB-GNG5 1-10'	S115992-4	Solid
A2A-SB-GNE1 0-1'	S115992-5	Solid
A2A-SB-GNE3 0-1'	S115992-6	Solid
A2A-SB-GNF6 0-1'	S115992-7	Solid
A2A-SB-GNG5 0-1'	S115992-8	Solid
A2A-SB-GNH4 0-1'	S115992-9	Solid
02A2A-SS-GNH4 0-1'	S115992-10	Solid
RB091201	S115992-11	Liquid
Trip Blank	S115992-12	Liquid
A2A-SD-IS-01	S116124A-1	Solid
A2A-SD-IS-02	S116124A-2	Solid
A2A-SD-IS-03	S116124A-3	Solid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes not detected in rinsate blank or trip blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?		✔	Due to insufficient sample volume, a matrix spike/matrix spike duplicate was not performed; therefore, a lab control sample/lab control sample duplicate has been provided for quality control. No action taken.
10. Was the MS sample a project sample?		✔	See comment above.
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)		✔	The surrogate recovery of p-bromofluorobenzene was outside established limits for sample A2A-SD-IS-02. The exceptions have been denoted on the deliverable form 2. Although recovery was below established limits, other quality indicators are acceptable; no action taken. Due to the abundance of target analytes, sample A2A-SD-IS-03 was analyzed at a secondary dilution of 1:200 (high level analysis procedure). The surrogate recovery of toluene-d8 was outside established limits in the diluted analysis. Reanalysis confirmed results; therefore, data has been provided. Although recovery was below established limits, other quality indicators are acceptable; no action taken.
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA09 Log No. S1-16096 and S1-16124 Explosives	Sample Matrix: ___ Soil _X_ Water ___ Other ___
Report Date: October 17, 2001	Method: SW-846 Methods 8330 and 8332
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
MW-6	S116096-1	Liquid
RB091601	S116096-2	Liquid
MW-4	S116096-3	Liquid
MW-5	S116096-4	Liquid
MW-2	S116096-5	Liquid
MW-3	S116096-6	Liquid
MW-7	S116124-1	Liquid
MW-8	S116124-2	Liquid
MW-9	S116124-3	Liquid
MW-9A	S116124-4	Liquid
MW-1	S116124-5	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

__ All preparation and analysis holding time requirements were met.

X The following holding time violations are noted: The samples that were taken September 16 and 17, 2001 (MW-2, -3, -4, -5, -6, and RB 091601) arrived at STL Savannah on September 19, 2001. The samples were shipped to STL Tallahassee for methods 8330 and 8332. The samples were received on Friday, September 21, 2001 and extracted Monday September 25, 2001. The client was notified September 25, 2001 that the samples were outside holding time. Per client response, on September 26, 2001 STL Tallahassee proceeded with the analysis. The sample container for sample MW-3 was inadvertently broken during shipment. Additional sample was shipped from the STL Savannah; therefore, the sample was extracted on October 2, 2001. Holding times were exceeded for Explosives Residues and Nitroglycerin analysis for the following samples: MW-2, -3, -4, -5, -6, and RB091601. All positive results will be flagged with "J" and non-detects will be flagged with "UJ". Shipping samples was made difficult immediately following the events of September 11, 2001.

Corrections/Information Required:
None.
Corrections/Information Received:
Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes were not detected rinsate blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	See holding time violation above.

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA09 Log No. S1-16096 and S1-16124 Metals	Sample Matrix: ___ Soil _X_ Water ___ Other ___
Report Date: October 17, 2001	Method: SW-846 Methods 6010B and 7471A
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
MW-6	S116096-1	Liquid
RB091601	S116096-2	Liquid
MW-4	S116096-3	Liquid
MW-5	S116096-4	Liquid
MW-2	S116096-5	Liquid
MW-3	S116096-6	Liquid
MW-7	S116124-1	Liquid
MW-8	S116124-2	Liquid
MW-9	S116124-3	Liquid
MW-9A	S116124-4	Liquid
MW-1	S116124-5	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

__ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.		✔	Sodium was detected in the rinsate blank at 0.56 mg/L. Sodium values reported in samples, which are less than 5 times the blank (2.80 mg/L), will be flagged as "U".
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was a LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?		✔	MS/MSD percent recovery for sample MW-7 was not within advisory limits for aluminum due to matrix interference; the associated results were flagged with a "J".
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)		✔	The serial dilution for sample MW-7 exceeded the advisory limits for potassium, sodium and zinc; therefore, all the associated results were flagged with a "J".

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/013, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA09 Log No. S1-16096 and S1-16124 TCL Semi-Volatiles	Sample Matrix: ___ Soil _X_ Water ___ Other ___
Report Date: October 17, 2001	Method: SW-846 Methods 8270C
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
MW-6	S116096-1	Liquid
RB091601	S116096-2	Liquid
MW-4	S116096-3	Liquid
MW-5	S116096-4	Liquid
MW-2	S116096-5	Liquid
MW-3	S116096-6	Liquid
MW-7	S116124-1	Liquid
MW-8	S116124-2	Liquid
MW-9	S116124-3	Liquid
MW-9A	S116124-4	Liquid
MW-1	S116124-5	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes were not detected in rinsate blank.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

OB/OD Closure
Fort McClellan, Alabama
Analytical Data Review

Lab Work Order #: SDG FMCA09 Log No. S1-16096 and S1-16124 Volatiles	Sample Matrix: ___ Soil X Water ___ Other ___
Report Date: October 17, 2001	Method: SW-846 Methods 8260B
Reviewer: Matt Weakley	Review Date: 03/18/02

Acceptable: _X_ Yes ___ No

Comments: See following Quality Control Results checklist.

Samples Included:

Field Sample ID	Lab Sample ID	Matrix
MW-6	S116096-1	Liquid
RB091601	S116096-2	Liquid
MW-4	S116096-3	Liquid
MW-5	S116096-4	Liquid
MW-2	S116096-5	Liquid
MW-3	S116096-6	Liquid
Trip Blank	S116096-7	Liquid
MW-7	S116124-1	Liquid
MW-8	S116124-2	Liquid
MW-9	S116124-3	Liquid
MW-9A	S116124-4	Liquid
MW-1	S116124-5	Liquid
Trip Blank	S116124-6	Liquid

Field Sample ID = Assigned by the sampling team
Lab Sample ID = Corresponding ID assigned by the analytical laboratory

Adherence to Holding Time Requirements:

_X_ All preparation and analysis holding time requirements were met.

___ The following holding time violations are noted:

Corrections/Information Required:

None.

Corrections/Information Received:

Verified By: ___NA_____ Date: _____

Quality Control Results

Review Question	Yes	No	Comments/Findings[1] (Attach Additional pages as necessary)
1. Measurement results for all specified target analytes are reported.	✔		
2. Were PQLs met?	✔		
3. Was a method blank analyzed?	✔		
4. Target analytes were not detected in method blanks.	✔		
5. Target analytes were not detected in field/equipment/rinsate blanks.	✔		Target analytes were not detected in trip blanks or rinsate blanks.
6. Were field duplicate RPDs within project goals?			Not applicable to this package.
7. Was an LCS analyzed with each batch?	✔		
8. All LCS recoveries were within QAPP specifications.	✔		
9. Was an MS/MSD pair analyzed with this batch?	✔		
10. Was the MS sample a project sample?	✔		
11. Were the MS/MSD recoveries within QAPP specifications?	✔		
12. Were the MS/MSD RPDs within QAPP specifications?	✔		
13. Were other method-specific QC criteria met? (e.g., surrogates, r values, duplicates, etc.)	✔		
14. No lab comments were included in the report. (If lab comments were provided, summarize the comments.)	✔		

[1]Data qualifiers and actions required resulting from QC review are based on EPA 540/R-94/012, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

Field Duplicate Results

Chemical	Sample MW-9	Duplicate MW-9A	RPD	Sample A2B-SS-ODPIT-18C 0-1'	Duplicate A2B-SS-ODPIT-18C 0-1' D	RPD	Sample A2A-SB-GNH4 0-1'	Duplicate 02A2A-SB-GNH4 0-1'	RPD
Explosives							No detects	No detects	
Nitroglycerin				5600	1200	129.4%			
Metals									
Mercury				0.054	0.031	54.1%			
Aluminum	0.26	0.2	26.1%	9800	10000	2.0%			
Arsenic				8.8	12	30.8%			
Barium	0.13	0.12	8.0%	54	55	1.8%			
Beryllium									
Calcium	2.5	2.4	4.1%	450	480	6.5%			
Cobalt				7.9	7.2	9.3%			
Chromium				20	25	22.2%			
Copper				310	310	0.0%			
Iron	0.39	0.19	69.0%	16000	23000	35.9%			
Potassium	1.5	1.6	6.5%	300	310	3.3%			
Magnesium	1	0.98	2.0%	330	340	3.0%			
Manganese	0.12	0.11	8.7%	960	920	4.3%			
Nickel				5	5	0.0%			
Lead				240	250	4.1%			
Thallium				1.2	1.8	40.0%			
Vanadium				30	42	33.3%			
Zinc	0.031	0.026	17.5%	300	290	3.4%			
VOAs									
2-Butanone (MEK)				41	43	4.8%			
Acetone				440	570	25.7%			
SVOCs									
Di-n-butylphthalate				450	460	2.2%			
N-Nitrosodiphenylamine				460	440	4.4%			

Field Duplicate Results (Continued)

Chemical	Sample A2C-SS-GNE5 0-1'	Duplicate A2C-SS-GNE5 0-1' (DUP)	RPD	Sample A2C-SS-GNB4 0-1'	Duplicate A2C-SS-GNB4 0-1' (DUP)	RPD	Sample A2A-SS-ODPIT-15 0-1'	Duplicate A2A-SS-ODPIT-15 0-1' (DUP)	RPD	Sample A2A-SS-ODPIT-12 0-1'	Duplicate A2A-SS-ODPIT-12(0) 0-1'	RPD
Explosives												
Nitroglycerin				1100	3500	104.3%	13000	12000	8.0%			
Metals												
Mercury	0.028	0.032	13.3%	0.036	0.035	2.8%	0.035	0.033	5.9%	0.047	0.052	10.1%
Aluminum	6500	6100	6.3%	7400	7500	1.3%	12000	11000	8.7%	17000	16000	6.1%
Arsenic	7.7	8.1	5.1%	16	14	13.3%	11	10	9.5%	9.7	8.4	14.4%
Barium	75	73	2.7%	85	90	5.7%	130	130	0.0%	160	150	6.5%
Beryllium				0.57	0.54	5.4%	0.72	0.65	10.2%	0.76	0.71	6.8%
Calcium	340	550	47.2%	470	500	6.2%	280	270	3.6%	480	450	6.5%
Cobalt	7	5.5	24.0%	8.3	7	17.0%	11	11	0.0%	13	13	0.0%
Chromium	22	28	24.0%	75	37	67.9%	21	22	4.7%	19	13	37.5%
Copper	24	100	122.6%	31	22	34.0%	170	160	6.1%	79	71	10.7%
Iron	12000	11000	8.7%	26000	20000	26.1%	18000	16000	11.8%	21000	18000	15.4%
Potassium	130	150	14.3%	180	200	10.5%	290	270	7.1%	530	490	7.8%
Magnesium	170	190	11.1%	190	200	5.1%	300	270	10.5%	510	480	6.1%
Manganese	1600	1300	20.7%	1600	1700	6.1%	3200	3000	6.5%	4000	4000	0.0%
Nickel	4.6	5.1	10.3%	6.9	5.9	15.6%	8.8	8	9.5%	10	9.2	8.3%
Lead	24	50	70.3%	27	26	3.8%	110	93	16.7%	49	50	2.0%
Thallium	3.7	2.9	24.2%	3.4	3.2	6.1%	8.1	6.8	17.4%	8.8	7.2	20.0%
Vanadium	24	22	8.7%	43	40	7.2%	34	30	12.5%	38	34	11.1%
Zinc	30	82	92.9%	50	39	24.7%	160	150	6.5%	86	74	15.0%
VOAs												
2-Butanone (MEK)	34	45	27.8%	30	34	12.5%	30	36	18.2%	83	77	7.5%
Acetone	330	550	50.0%	290	450	43.2%	310	330	6.3%	790	740	6.5%
SVOCs												
Di-n-butylphthalate							1000	710	33.9%			
N-Nitrosodiphenylamine							550	500	9.5%			