

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-ASY-03-SB4	72-BM-RV46-SB2	72-1026-R86-SB2	72-1026-R89-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0039-0001-SO	072SB-0065-0001-SO	072SB-0014-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18703-18	240-18449-6	240-18544-3	240-18297-17	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/6/2012	12/3/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Nitrogen, Nitrate-Nitrite (Colorimetric Units Automated, Cadmium Reduction)

Nitrocellulose	MG/KG	20.0 U	19.0 U	19.0 U	20.0 U	18.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72			
Location ID:	72-1048-RV5-SB2	72-2F11-R41-SB1	
Field Sample ID:	072SB-0003-0001-SO	072SB-0082-0001-SO	
Lab Sample ID:	240-18297-11	240-18703-8	
Lab Name:	TAM0	TAM0	
Sample Date:	12/3/2012	12/10/2012	
Field QC:		Field Duplicate	
Analysis Information:	1X	1X	
Nitrogen, Nitrate-Nitrite (Colorimetric Units Automated, Cadmium Reduction)			
Nitrocellulose	MG/KG	21.0 U	18.0 U

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	11.0 U	11.0 U	11.0 U	12.0 U	11.0 U
C20-C34 Motor Oil Range Organics	MG/KG	11.0 U	11.0 U	11.0 U	12.0 U	11.0 U

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	10.0 U	11.0 U	11.0 U	11.0 U	11.0 U
C20-C34 Motor Oil Range Organics	MG/KG	10.0 U	11.0 U	11.0 U	11.0 U	11.0 U

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	10.0 U	17.0 J	20.0	12.0 J	11.0 U
C20-C34 Motor Oil Range Organics	MG/KG	10.0 U	30.0	27.0	11.0 U	11.0 U

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	11.0 U	11.0 U	11.0 U	10.0 U	11.0 U
C20-C34 Motor Oil Range Organics	MG/KG	11.0 U	11.0 U	11.0 U	10.0 U	11.0 U

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	11.0 U	11.0 U	11.0 U	11.0 U	10.0 UJ
C20-C34 Motor Oil Range Organics	MG/KG	11.0 U	11.0 U	11.0 U	11.0 U	10.0 UJ

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	11.0 UJ	11.0 UJ	11.0 UJ	9.90 U	10.0 U
C20-C34 Motor Oil Range Organics	MG/KG	11.0 UJ	11.0 UJ	11.0 UJ	9.90 U	11.0 J

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UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
C20-C34 Motor Oil Range Organics	MG/KG	10.0 U	14.0 J	10.0 U	10.0 U	10.0 U

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	10X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	10.0 U	12.0 J	990	10.0 U	10.0 U
C20-C34 Motor Oil Range Organics	MG/KG	10.0 U	26.0	160 J	10.0 U	10.0 U

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	10.0 U	10.0 U	10.0 U	10.0 U	11.0 U
C20-C34 Motor Oil Range Organics	MG/KG	10.0 U	10.0 U	10.0 U	10.0 U	11.0 U

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	11.0 U	10.0 U	10.0 U	10.0 U	10.0 U
C20-C34 Motor Oil Range Organics	MG/KG	11.0 U	10.0 U	10.0 U	10.0 U	10.0 U

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3	72-1026-R89-SB4
Field Sample ID:	072SB-0026-0001-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18441-11	240-18441-12	240-18441-13	240-18441-14	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	9.60 U	9.60 U	9.70 U	9.70 U	9.70 U
C20-C34 Motor Oil Range Organics	MG/KG	9.60 U	9.60 U	9.70 U	9.70 U	9.70 U

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1	72-1026-RV4-SB2
Field Sample ID:	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO	072SB-0008-0001-SO
Lab Sample ID:	240-18441-16	240-18441-17	240-18441-1	240-18441-4	240-18441-2
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	9.70 U	9.40 U	10.0 U	10.0 U	10.0 U
C20-C34 Motor Oil Range Organics	MG/KG	9.70 U	9.40 U	10.0 U	10.0 U	10.0 U

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB2
Field Sample ID:	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO	072SB-0003-0001-SO
Lab Sample ID:	240-18441-3	240-18297-9	240-18297-10	240-18297-13	240-18297-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	10.0 U	11.0 U	11.0 U	11.0 U	11.0 U
C20-C34 Motor Oil Range Organics	MG/KG	10.0 U	11.0 U	11.0 U	11.0 U	11.0 U

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3	72-1103-R88-SB4
Field Sample ID:	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO	072SB-0059-0001-SO
Lab Sample ID:	240-18297-12	240-18581-7	240-18581-8	240-18581-9	240-18581-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/7/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	11.0 U	11.0 UJ	11.0 UJ	11.0 UJ	10.0 UJ
C20-C34 Motor Oil Range Organics	MG/KG	11.0 U	11.0 UJ	11.0 UJ	11.0 UJ	10.0 UJ

Notes:

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ID = Identification

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3	72-2F11-R41-SB4
Field Sample ID:	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO	072SB-0085-0001-SO
Lab Sample ID:	240-18581-11	240-18703-8	240-18703-9	240-18703-10	240-18703-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	10.0 UJ	220	11.0 U	11.0 U	11.0 U
C20-C34 Motor Oil Range Organics	MG/KG	10.0 UJ	25.0	11.0 U	11.0 U	11.0 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

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Chemistry Results

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RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012
Field QC:	Field Duplicate		
Analysis Information:	1X	1X	1X

Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	MG/KG	11.0 U	11.0 U	11.0 U
C20-C34 Motor Oil Range Organics	MG/KG	11.0 U	11.0 U	11.0 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	50.0 U	70.0 J	2200 J	860	3200 J
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	49.0 U	52.0 U	54.0 U	51.0 U	52.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	53.0 U	48.0 U	65.0 U	48.0 U	46.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	44.0 U	750	46.0 U	49.0 U	56.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	51.0 U	50.0 U	53.0 U	47.0 U	46.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	46.0 U	60.0 U	46.0 U	73.0 U	50.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	54.0 J	48.0 U	44.0 U	42.0 U	46.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	46.0 U	42.0 U	6700	47.0 U	48.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	50.0 U	46.0 U	47.0 U	43.0 U	54.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	44.0 U	52.0 U	44.0 U	51.0 U	49.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3	72-1026-R89-SB4
Field Sample ID:	072SB-0026-0001-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18441-11	240-18441-12	240-18441-13	240-18441-14	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	40.0 U	48.0 U	54.0 U	41.0 U	42.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1	72-1026-RV4-SB2
Field Sample ID:	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO	072SB-0008-0001-SO
Lab Sample ID:	240-18441-16	240-18441-17	240-18441-1	240-18441-4	240-18441-2
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	58.0 U	56.0 U	48.0 U	64.0 U	58.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB2
Field Sample ID:	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO	072SB-0003-0001-SO
Lab Sample ID:	240-18441-3	240-18297-9	240-18297-10	240-18297-13	240-18297-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	63.0 U	320 J	180 J	440	760
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3	72-1103-R88-SB4
Field Sample ID:	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO	072SB-0059-0001-SO
Lab Sample ID:	240-18297-12	240-18581-7	240-18581-8	240-18581-9	240-18581-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/7/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	310	44.0 U	46.0 U	45.0 U	45.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3	72-2F11-R41-SB4
Field Sample ID:	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO	072SB-0085-0001-SO
Lab Sample ID:	240-18581-11	240-18703-8	240-18703-9	240-18703-10	240-18703-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	2X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	42.0 U	37000	46.0 U	58.0 U	63.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012
Field QC:	Field Duplicate		
Analysis Information:	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	43.0 U	47.0 U	45.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	14000	12000	11000	13000	13000
Antimony	MG/KG	0.110 U	0.110 U	0.110 U	0.120 U	0.110 U
Arsenic	MG/KG	12.0	14.0	15.0	14.0	17.0
Barium	MG/KG	53.0	56.0 J	95.0 J	69.0	47.0
Beryllium	MG/KG	0.630	0.550	0.560	0.600	0.630
Cadmium	MG/KG	0.160	0.180	0.220	0.200	0.250
Calcium	MG/KG	2000	1300	1400	1600	4600
Chromium	MG/KG	19.0	14.0	13.0	16.0	18.0
Cobalt	MG/KG	11.0	9.20	15.0	10.0	14.0
Copper	MG/KG	19.0	14.0	9.90	14.0	19.0
Iron	MG/KG	28000	24000	24000	30000	31000
Lead	MG/KG	12.0	20.0	19.0	46.0	13.0
Magnesium	MG/KG	4800	2600	2000	2700	5800
Manganese	MG/KG	180	330 J	1700 J	660	350

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	14000	12000	13000	13000	11000
Antimony	MG/KG	0.0990 U	0.0820 J	0.0740 J	0.0800 J	0.0580 J
Arsenic	MG/KG	17.0	13.0 J	12.0 J	9.50 J	9.60 J
Barium	MG/KG	44.0	80.0 J	49.0 J	48.0 J	47.0 J
Beryllium	MG/KG	0.660	0.700	0.690	0.670	0.580
Cadmium	MG/KG	0.150	0.280	0.210	0.180	0.190
Calcium	MG/KG	4300	2400	21000	19000	17000
Chromium	MG/KG	18.0	18.0 J	20.0 J	18.0 J	17.0 J
Cobalt	MG/KG	12.0	16.0	14.0	10.0	10.0
Copper	MG/KG	18.0	21.0	18.0	16.0	18.0
Iron	MG/KG	30000	29000	27000	26000	24000
Lead	MG/KG	12.0	12.0 J	12.0 J	11.0 J	11.0 J
Magnesium	MG/KG	5800	4000	7100	6800	6400
Manganese	MG/KG	250	630	310	250	260

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	11000	11000	9600	9700	9900
Antimony	MG/KG	0.0770 J	0.110 J	0.110 UJ	0.0550 J	0.0490 J
Arsenic	MG/KG	18.0 J	13.0 J	15.0 J	18.0 J	16.0 J
Barium	MG/KG	57.0 J	27.0 J	23.0 J	18.0 J	44.0 J
Beryllium	MG/KG	0.610	0.580	0.560	0.460	0.550
Cadmium	MG/KG	0.180	0.150	0.150	0.130	0.170
Calcium	MG/KG	1800	7500	6300	7300	7300
Chromium	MG/KG	16.0 J	16.0 J	14.0 J	15.0 J	16.0 J
Cobalt	MG/KG	10.0	11.0	9.90	11.0	12.0
Copper	MG/KG	20.0	18.0	16.0	18.0	16.0
Iron	MG/KG	28000	26000	25000	28000	27000
Lead	MG/KG	13.0 J	11.0 J	9.10 J	9.80 J	10.0 J
Magnesium	MG/KG	3500	6000	5200	6400	4800
Manganese	MG/KG	240	290	280	360	260

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units				
Aluminum	MG/KG	10000	12000	12000	10000
Antimony	MG/KG	0.0630 J	0.110 UJ	0.0980 J	0.0620 J
Arsenic	MG/KG	16.0 J	9.40 J	15.0 J	17.0 J
Barium	MG/KG	46.0 J	50.0 J	38.0 J	34.0 J
Beryllium	MG/KG	0.570	0.640	0.620	0.530
Cadmium	MG/KG	0.160	0.190	0.170	0.150
Calcium	MG/KG	3800	20000	3300	3700
Chromium	MG/KG	16.0 J	18.0 J	17.0 J	15.0 J
Cobalt	MG/KG	11.0	8.50	12.0	8.70
Copper	MG/KG	15.0	18.0	18.0	17.0
Iron	MG/KG	27000	24000	29000	28000
Lead	MG/KG	11.0 J	9.70 J	11.0 J	10.0 J
Magnesium	MG/KG	4700	6000	5000	4500
Manganese	MG/KG	200	270	230	200

Notes:

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	13000	12000	12000	11000	9600
Antimony	MG/KG	0.0630 J	0.0610 J	0.0740 J	0.0690 J	0.0530 J
Arsenic	MG/KG	12.0 J	8.10 J	17.0 J	22.0 J	12.0
Barium	MG/KG	55.0 J	46.0 J	45.0 J	49.0 J	29.0
Beryllium	MG/KG	0.660	0.580	0.690	0.630	0.490
Cadmium	MG/KG	0.200	0.190	0.160	0.190	0.130
Calcium	MG/KG	20000	20000	4300	15000	8200
Chromium	MG/KG	19.0 J	17.0 J	17.0 J	17.0 J	14.0
Cobalt	MG/KG	11.0	8.90	11.0	11.0	9.20
Copper	MG/KG	18.0	17.0	17.0	18.0	17.0
Iron	MG/KG	26000	24000	29000	28000	23000
Lead	MG/KG	10.0 J	11.0 J	11.0 J	12.0 J	11.0
Magnesium	MG/KG	6400	6200	5300	5800	5800
Manganese	MG/KG	350	240	190	250	210

Notes:

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MG/KG = Milligrams per Kilogram

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units				
Aluminum	MG/KG	9700	9600	10000	7400
Antimony	MG/KG	0.0650 J	0.0690 J	0.0600 J	0.0910 U
Arsenic	MG/KG	15.0	16.0	15.0	8.90
Barium	MG/KG	31.0	33.0	32.0	39.0
Beryllium	MG/KG	0.520	0.510	0.550	0.410
Cadmium	MG/KG	0.150	0.150	0.160	0.160
Calcium	MG/KG	4300	11000	3700	1600
Chromium	MG/KG	14.0	14.0	15.0	10.0
Cobalt	MG/KG	9.90	10.0	11.0	7.70
Copper	MG/KG	19.0	18.0	19.0	13.0
Iron	MG/KG	26000	26000	26000	19000
Lead	MG/KG	10.0	11.0	10.0	13.0
Magnesium	MG/KG	4500	4700	4600	2000
Manganese	MG/KG	200	310	190	360

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	10000	4100	5400	5500	5100
Antimony	MG/KG	0.100 U	0.100 U	0.0690 J	0.0610 J	0.0730 J
Arsenic	MG/KG	13.0	4.20	11.0	10.0	10.0
Barium	MG/KG	47.0	23.0	21.0	23.0	21.0
Beryllium	MG/KG	0.480	0.280	0.400	0.380	0.380
Cadmium	MG/KG	0.180	0.110	0.150 J	0.190	0.140
Calcium	MG/KG	1400	870	1200	1100	1800
Chromium	MG/KG	14.0	5.80	9.20	9.00	8.90
Cobalt	MG/KG	9.30	4.50	7.70	7.60	7.00
Copper	MG/KG	18.0	7.00	15.0	14.0	15.0
Iron	MG/KG	23000	13000	17000	18000	18000
Lead	MG/KG	14.0	9.60	11.0	9.70	8.90
Magnesium	MG/KG	2900	1200	1600	1700	2000
Manganese	MG/KG	330	220	270 J	420 J	220 J

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	5600	7000	5100	8500	9600
Antimony	MG/KG	0.0620 J	0.0620 J	0.0570 J	0.200 J	0.140 J
Arsenic	MG/KG	9.70	17.0	7.90	5.60 J	4.70
Barium	MG/KG	20.0	35.0	21.0	55.0	53.0
Beryllium	MG/KG	0.370	0.440	0.340	0.880	0.810
Cadmium	MG/KG	0.120	0.220	0.150	0.200	0.230
Calcium	MG/KG	18000	1600	6500	400	450
Chromium	MG/KG	9.40	14.0	8.40	18.0	20.0
Cobalt	MG/KG	6.40	7.70	6.60	18.0	17.0
Copper	MG/KG	13.0	19.0	14.0	31.0	33.0
Iron	MG/KG	18000	25000	16000	37000	36000
Lead	MG/KG	10.0	15.0	15.0	20.0	17.0
Magnesium	MG/KG	3300	2400	2500	4000	4300
Manganese	MG/KG	230	270	260	910	700

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units				
Aluminum	MG/KG	9000	9500	9500	9700
Antimony	MG/KG	0.0730 J	0.130 J	0.130 J	0.120 J
Arsenic	MG/KG	2.20	5.60	3.60	3.90
Barium	MG/KG	56.0	61.0	57.0	54.0
Beryllium	MG/KG	0.830	0.910	0.820	0.850
Cadmium	MG/KG	0.240	0.260	0.200	0.190
Calcium	MG/KG	550	430	420	470
Chromium	MG/KG	18.0	19.0	18.0	19.0
Cobalt	MG/KG	14.0	17.0	15.0	13.0
Copper	MG/KG	27.0	34.0	31.0	32.0
Iron	MG/KG	35000	40000	34000	33000
Lead	MG/KG	15.0	23.0	16.0	15.0
Magnesium	MG/KG	4000	4200	4200	4300
Manganese	MG/KG	520	840	650	490

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	10X,1X	10X,1X	10X,1X	10X,1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	10000	10000	8900	9300	9000
Antimony	MG/KG	0.130 J	0.0910 J	0.140 J	0.0940 J	0.0940 J
Arsenic	MG/KG	4.40	2.40 J	3.10 J	2.50 J	3.00 J
Barium	MG/KG	55.0	49.0 J	48.0 J	54.0 J	42.0 J
Beryllium	MG/KG	0.910	0.900	1.30	0.860	1.00
Cadmium	MG/KG	0.250	0.270	0.270	0.240	0.260
Calcium	MG/KG	480	650	580	440	490
Chromium	MG/KG	20.0	22.0	19.0	20.0	19.0
Cobalt	MG/KG	16.0	15.0	15.0	15.0	13.0
Copper	MG/KG	34.0	31.0	30.0	29.0	30.0
Iron	MG/KG	37000	52000	92000	50000	54000
Lead	MG/KG	19.0	15.0	15.0	16.0	14.0
Magnesium	MG/KG	4500	3900	3400	4200	3900
Manganese	MG/KG	500	1100 J	1400 J	1100 J	960 J

Notes:

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MG/KG = Milligrams per Kilogram

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3	72-1026-R89-SB4
Field Sample ID:	072SB-0026-0001-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18441-11	240-18441-12	240-18441-13	240-18441-14	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	6000	5900	5600	4900	5800
Antimony	MG/KG	0.100 R	0.0820 J	0.0920 R	0.0970 R	0.0820 R
Arsenic	MG/KG	0.510 J	1.10 J	0.450 J	0.400 J	0.450 J
Barium	MG/KG	31.0 J	16.0 J	36.0 J	29.0 J	26.0 J
Beryllium	MG/KG	0.690	0.580	0.590	0.520	0.590
Cadmium	MG/KG	0.190	0.150	0.170	0.180	0.170
Calcium	MG/KG	750	710	700	630	650
Chromium	MG/KG	13.0	13.0	12.0	9.90	12.0
Cobalt	MG/KG	5.50	6.20	5.40	4.50	5.10
Copper	MG/KG	17.0	17.0	14.0	13.0	14.0
Iron	MG/KG	11000	12000	10000	9100	10000
Lead	MG/KG	8.70	10.0	7.80	8.50	7.40
Magnesium	MG/KG	2300	2100	2100	2000	2000
Manganese	MG/KG	210 J	84.0 J	180 J	130 J	210 J

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1	72-1026-RV4-SB2
Field Sample ID:	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO	072SB-0008-0001-SO
Lab Sample ID:	240-18441-16	240-18441-17	240-18441-1	240-18441-4	240-18441-2
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	10X,1X	10X,1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	6300	5200	6800	9700	9900
Antimony	MG/KG	0.100 R	0.100 R	0.0950 J	0.130 J	0.130 J
Arsenic	MG/KG	0.380 J	0.430 J	3.20 J	2.70 J	4.50 J
Barium	MG/KG	30.0 J	29.0 J	68.0 J	39.0 J	48.0 J
Beryllium	MG/KG	0.660	0.570	1.50	1.10	0.930
Cadmium	MG/KG	0.140	0.200	0.290	0.230	0.310
Calcium	MG/KG	680	700	460	660	630
Chromium	MG/KG	12.0	11.0	15.0	20.0	20.0
Cobalt	MG/KG	5.00	4.80	12.0	24.0	17.0
Copper	MG/KG	14.0	14.0	22.0	33.0	31.0
Iron	MG/KG	10000	10000	150000	66000	39000
Lead	MG/KG	7.00	7.60	13.0	18.0	20.0
Magnesium	MG/KG	2100	2000	2600	4000	4300
Manganese	MG/KG	160 J	110 J	3400 J	900 J	1100 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB2
Field Sample ID:	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO	072SB-0003-0001-SO
Lab Sample ID:	240-18441-3	240-18297-9	240-18297-10	240-18297-13	240-18297-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units				
Aluminum	MG/KG	8900	12000	12000	4300
Antimony	MG/KG	0.120 J	0.0750 J	0.0830 J	0.0590 J
Arsenic	MG/KG	4.00 J	14.0 J	7.80 J	13.0
Barium	MG/KG	34.0 J	36.0 J	87.0 J	13.0
Beryllium	MG/KG	0.820	0.650	0.600	0.210
Cadmium	MG/KG	0.310	0.150	0.190	0.120
Calcium	MG/KG	430	2900 J	28000 J	4300
Chromium	MG/KG	19.0	18.0	19.0	7.10
Cobalt	MG/KG	13.0	12.0	9.60	5.60
Copper	MG/KG	31.0	16.0	17.0	18.0
Iron	MG/KG	36000	28000	26000	17000
Lead	MG/KG	17.0	11.0	10.0	8.10
Magnesium	MG/KG	4000	6000	8100	3300
Manganese	MG/KG	850 J	190	270	200

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3	72-1103-R88-SB4
Field Sample ID:	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO	072SB-0059-0001-SO
Lab Sample ID:	240-18297-12	240-18581-7	240-18581-8	240-18581-9	240-18581-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/7/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry	Units					
Aluminum	MG/KG	9600	14000	9600	9200	9700
Antimony	MG/KG	0.0760 J	0.0780 J	0.0560 J	0.0610 J	0.0770 J
Arsenic	MG/KG	12.0	11.0	12.0	13.0	13.0
Barium	MG/KG	36.0	150	41.0	40.0	47.0
Beryllium	MG/KG	0.480	0.740	0.510	0.520	0.540
Cadmium	MG/KG	0.160	0.240	0.180	0.160	0.200
Calcium	MG/KG	8100	2100	8200	3700	1800
Chromium	MG/KG	15.0	20.0	15.0	15.0	15.0
Cobalt	MG/KG	9.20	11.0	10.0	9.70	11.0
Copper	MG/KG	17.0	18.0	17.0	18.0	18.0
Iron	MG/KG	25000	27000	24000	23000	24000
Lead	MG/KG	11.0	13.0	11.0	9.90	10.0
Magnesium	MG/KG	5800	4800	4400	4400	3400
Manganese	MG/KG	190	300	340	280	390

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3	72-2F11-R41-SB4
Field Sample ID:	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO	072SB-0085-0001-SO
Lab Sample ID:	240-18581-11	240-18703-8	240-18703-9	240-18703-10	240-18703-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units				
Aluminum	MG/KG	9400	10000	9800	10000
Antimony	MG/KG	0.0620 J	0.110 U	0.100 UJ	0.300
Arsenic	MG/KG	12.0	15.0	16.0	17.0
Barium	MG/KG	42.0	38.0	33.0	35.0
Beryllium	MG/KG	0.520	0.470	0.460	0.480
Cadmium	MG/KG	0.150	0.140	0.140	0.140
Calcium	MG/KG	1700	7500	11000 J	7300
Chromium	MG/KG	14.0	14.0	14.0 J	14.0
Cobalt	MG/KG	9.40	12.0	11.0	12.0
Copper	MG/KG	18.0	55.0	20.0	20.0
Iron	MG/KG	23000	26000	26000	27000
Lead	MG/KG	10.0	13.0	12.0	12.0
Magnesium	MG/KG	3300	5500	8700 J	5300
Manganese	MG/KG	290	440	400	420

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012
Field QC:	Field Duplicate		
Analysis Information:	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units			
Aluminum	MG/KG	8900	10000	7700
Antimony	MG/KG	0.100 U	0.110 U	0.0530 J
Arsenic	MG/KG	13.0	16.0	15.0
Barium	MG/KG	27.0	31.0	25.0
Beryllium	MG/KG	0.350	0.460	0.380
Cadmium	MG/KG	0.0920 J	0.150	0.140
Calcium	MG/KG	5200	5700	5100
Chromium	MG/KG	11.0	14.0	12.0
Cobalt	MG/KG	8.50	11.0	9.30
Copper	MG/KG	15.0	20.0	16.0
Iron	MG/KG	22000	26000	23000
Lead	MG/KG	9.30	12.0	9.30
Magnesium	MG/KG	4200	5400	4200
Manganese	MG/KG	260	380	260

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 28.0	19.0	15.0	19.0	30.0
Potassium	MG/KG 2100	1200	820	1100	2200
Selenium	MG/KG 0.500 J	0.560	0.700	0.760	0.460 J
Silver	MG/KG 0.0440 J	0.0370 J	0.0450 J	0.0420 J	0.0320 J
Sodium	MG/KG 77.0	45.0	36.0	44.0	74.0
Thallium	MG/KG 0.170	0.150	0.160	0.180	0.140
Vanadium	MG/KG 19.0	19.0	21.0	24.0	18.0
Zinc	MG/KG 66.0	52.0	45.0	57.0	130

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 28.0	44.0	28.0	26.0	25.0
Potassium	MG/KG 2200	1400 J	2500 J	2400 J	2000 J
Selenium	MG/KG 0.510	0.280 J	0.460 J	0.190 J	0.420 J
Silver	MG/KG 0.0330 J	0.0280 J	0.0440 J	0.0350 J	0.0370 J
Sodium	MG/KG 80.0	52.0	90.0	92.0	80.0
Thallium	MG/KG 0.140	0.160	0.150	0.150	0.140
Vanadium	MG/KG 19.0	18.0 J	21.0 J	20.0 J	18.0 J
Zinc	MG/KG 60.0	66.0	61.0	55.0	53.0

Notes:

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MG/KG = Milligrams per Kilogram

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 29.0	26.0	24.0	26.0	28.0
Potassium	MG/KG 1200 J	2300 J	1800 J	1500 J	1500 J
Selenium	MG/KG 0.270 J	0.280 J	0.710 J	0.280 J	0.730 J
Silver	MG/KG 0.0280 J	0.0360 J	0.0310 J	0.0310 J	0.0340 J
Sodium	MG/KG 54.0	97.0	78.0	90.0	57.0
Thallium	MG/KG 0.150	0.150	0.110	0.130	0.140
Vanadium	MG/KG 16.0 J	18.0 J	14.0 J	13.0 J	15.0 J
Zinc	MG/KG 67.0	54.0	67.0	63.0	61.0

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 26.0	24.0	29.0	23.0	26.0
Potassium	MG/KG 1600 J	2500 J	1900 J	1500 J	2100 J
Selenium	MG/KG 0.760 J	0.780 J	0.260 J	0.200 J	0.460 J
Silver	MG/KG 0.0310 J	0.0290 J	0.0320 J	0.0370 J	0.0400 J
Sodium	MG/KG 74.0	84.0	72.0	58.0	81.0
Thallium	MG/KG 0.130	0.140	0.130	0.120	0.130
Vanadium	MG/KG 16.0 J	20.0 J	16.0 J	14.0 J	19.0 J
Zinc	MG/KG 56.0	53.0	64.0	60.0	56.0

Notes:

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 27.0	24.0	28.0	27.0	19.0
Potassium	MG/KG 2500 J	2000 J	2100 J	1900 J	1600
Selenium	MG/KG 0.170 J	0.200 J	0.370 J	0.210 J	0.400 J
Silver	MG/KG 0.0330 J	0.0360 J	0.0340 J	0.0390 J	0.0280 J
Sodium	MG/KG 91.0	78.0	74.0	71.0	71.0
Thallium	MG/KG 0.170	0.140	0.120	0.130	0.0970
Vanadium	MG/KG 20.0 J	18.0 J	17.0 J	17.0 J	14.0
Zinc	MG/KG 62.0	51.0	61.0	57.0	49.0

Notes:

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MG/KG = Milligrams per Kilogram

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 24.0	24.0	26.0	16.0	12.0
Potassium	MG/KG 1600	1600	1800	1000	830
Selenium	MG/KG 0.380 J	0.340 J	0.420 J	0.410 J	0.320 J
Silver	MG/KG 0.0340 J	0.0320 J	0.0340 J	0.0220 J	0.0180 J
Sodium	MG/KG 53.0	54.0	56.0	47.0	54.0
Thallium	MG/KG 0.110	0.110	0.120	0.130	0.110
Vanadium	MG/KG 15.0	14.0	15.0	13.0	9.60
Zinc	MG/KG 57.0	52.0	59.0	53.0	46.0

Notes:

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ID = Identification

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 22.0	9.20	16.0	19.0	15.0
Potassium	MG/KG 1200	670	950	960	890
Selenium	MG/KG 0.460 J	0.280 J	0.380 J	0.210 J	0.200 J
Silver	MG/KG 0.0230 J	0.0130 J	0.0240 J	0.0280 J	0.0240 J
Sodium	MG/KG 60.0	33.0	32.0	27.0	27.0
Thallium	MG/KG 0.140	0.0750 J	0.120	0.130	0.0890 J
Vanadium	MG/KG 16.0	7.80	9.80	9.60	9.30
Zinc	MG/KG 55.0	38.0	59.0	52.0	59.0

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 15.0	21.0	15.0	31.0	32.0
Potassium	MG/KG 1100	1200	950	1000	1200
Selenium	MG/KG 0.380 J	0.260 J	0.170 J	1.00	1.10
Silver	MG/KG 0.0280 J	0.0500 J	0.0250 J	0.0320 J	0.0370 J
Sodium	MG/KG 54.0	33.0	33.0	60.0	66.0
Thallium	MG/KG 0.0830 J	0.140	0.100	0.140	0.110
Vanadium	MG/KG 10.0	11.0	9.60	17.0	18.0
Zinc	MG/KG 50.0	86.0	52.0	69.0	80.0

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 26.0	34.0	30.0	27.0	33.0
Potassium	MG/KG 1300	1200	1200	1200	1200
Selenium	MG/KG 0.820	1.10	0.850	0.850	0.890
Silver	MG/KG 0.0430 J	0.0360 J	0.0290 J	0.0340 J	0.0280 J
Sodium	MG/KG 52.0	61.0	61.0	65.0	58.0
Thallium	MG/KG 0.0980	0.120	0.100	0.0930	0.130
Vanadium	MG/KG 17.0	19.0	17.0	18.0	17.0
Zinc	MG/KG 61.0	87.0	70.0	58.0	81.0

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	10X,1X	10X,1X	10X,1X	10X,1X
Nickel	MG/KG 30.0	36.0	35.0	41.0	31.0
Potassium	MG/KG 1300	1400	1300	1100	1200
Selenium	MG/KG 1.10	0.910	1.10	0.800	0.890
Silver	MG/KG 0.0390 J	0.0330 J	0.0390 J	0.0280 J	0.0320 J
Sodium	MG/KG 62.0	35.0	35.0	34.0	37.0
Thallium	MG/KG 0.100 J	0.0990 J	0.110 J	0.0890 J	0.130 J
Vanadium	MG/KG 19.0	21.0	21.0	19.0	20.0
Zinc	MG/KG 75.0	83.0 J	67.0 J	79.0 J	70.0 J

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3	72-1026-R89-SB4
Field Sample ID:	072SB-0026-0001-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18441-11	240-18441-12	240-18441-13	240-18441-14	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 16.0	25.0	15.0	12.0	16.0
Potassium	MG/KG 1300	1100	1100	1100	1200
Selenium	MG/KG 0.740	0.680	0.620	0.680	0.580
Silver	MG/KG 0.0300 J	0.0610 J	0.0310 J	0.0290 J	0.0310 J
Sodium	MG/KG 71.0	69.0	65.0	63.0	62.0
Thallium	MG/KG 0.120 J	0.110 J	0.0840 J	0.0740 J	0.0770 J
Vanadium	MG/KG 8.90	9.70	7.80	7.00	7.90
Zinc	MG/KG 45.0 J	33.0 J	41.0 J	38.0 J	39.0 J

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1	72-1026-RV4-SB2
Field Sample ID:	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO	072SB-0008-0001-SO
Lab Sample ID:	240-18441-16	240-18441-17	240-18441-1	240-18441-4	240-18441-2
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	10X,1X	10X,1X	1X
Nickel	MG/KG 15.0	14.0	28.0	36.0	39.0
Potassium	MG/KG 1300	1200	990	1500	1400
Selenium	MG/KG 0.660	0.590	0.880	1.10	0.870
Silver	MG/KG 0.0210 J	0.0330 J	0.0330 J	0.0400 J	0.0390 J
Sodium	MG/KG 69.0	62.0	28.0	38.0	40.0
Thallium	MG/KG 0.0680 J	0.0780 J	0.0930 J	0.100 J	0.140 J
Vanadium	MG/KG 8.10	8.00	19.0	20.0	19.0
Zinc	MG/KG 47.0 J	41.0 J	55.0 J	71.0 J	88.0 J

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB2
Field Sample ID:	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO	072SB-0003-0001-SO
Lab Sample ID:	240-18441-3	240-18297-9	240-18297-10	240-18297-13	240-18297-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 29.0	29.0	25.0	13.0	23.0
Potassium	MG/KG 1100	1900 J	2100	630	1300
Selenium	MG/KG 0.880	0.900	0.900	0.710	0.910
Silver	MG/KG 0.0340 J	0.0330 J	0.0340 J	0.0260 J	0.0340 J
Sodium	MG/KG 32.0	85.0	100	40.0	74.0
Thallium	MG/KG 0.0990 J	0.180	0.150	0.0780 J	0.110
Vanadium	MG/KG 18.0	17.0	20.0	7.80	15.0
Zinc	MG/KG 94.0 J	59.0	52.0	45.0	55.0

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3	72-1103-R88-SB4
Field Sample ID:	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO	072SB-0059-0001-SO
Lab Sample ID:	240-18297-12	240-18581-7	240-18581-8	240-18581-9	240-18581-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/7/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 24.0	42.0	25.0	23.0	27.0
Potassium	MG/KG 1500	1500	1200	1200	1200
Selenium	MG/KG 0.820	0.440 J	0.430 J	0.370 J	0.310 J
Silver	MG/KG 0.0340 J	0.0390 J	0.0300 J	0.0310 J	0.0310 J
Sodium	MG/KG 74.0	110	58.0	68.0	60.0
Thallium	MG/KG 0.130	0.170	0.130	0.120	0.140
Vanadium	MG/KG 16.0	21.0	15.0	14.0	15.0
Zinc	MG/KG 53.0	57.0	53.0	51.0	58.0

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3	72-2F11-R41-SB4
Field Sample ID:	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO	072SB-0085-0001-SO
Lab Sample ID:	240-18581-11	240-18703-8	240-18703-9	240-18703-10	240-18703-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 23.0	27.0	25.0	26.0	23.0
Potassium	MG/KG 1200	1600	1600 J	1700	1600
Selenium	MG/KG 0.370 J	0.540 J	0.470 J	0.490 J	0.460 J
Silver	MG/KG 0.0250 J	0.0310 J	0.0310 J	0.0310 J	0.0300 J
Sodium	MG/KG 63.0	83.0	100	72.0	72.0
Thallium	MG/KG 0.160	0.150	0.150	0.170	0.140
Vanadium	MG/KG 14.0	16.0	15.0	15.0	15.0
Zinc	MG/KG 50.0	55.0	55.0	56.0	52.0

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012
Field QC:	Field Duplicate		
Analysis Information:	1X	1X	1X
Nickel	MG/KG 19.0	24.0	21.0
Potassium	MG/KG 1400	1700	1100
Selenium	MG/KG 0.400 J	0.490 J	0.320 J
Silver	MG/KG 0.0220 J	0.0250 J	0.0250 J
Sodium	MG/KG 63.0	72.0	43.0
Thallium	MG/KG 0.100	0.140	0.110
Vanadium	MG/KG 13.0	15.0	12.0
Zinc	MG/KG 44.0	55.0	48.0

Notes:

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MG/KG = Milligrams per Kilogram

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique)

	Units				
Mercury	MG/KG	0.0370 U	0.0450 U	0.0440 U	0.0340 J
					0.0420 U

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0380 U	0.0160 J	0.0440 U	0.0410 U	0.0370 U
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Notes:

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UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0160 J	0.0450 U	0.0360 U	0.0390 U	0.0390 U
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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0370 U	0.0390 U	0.0350 U	0.0340 U	0.0380 U
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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0410 U	0.0420 U	0.0440 U	0.0390 U	0.0160 J
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Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0170 J	0.0450 U	0.0370 U	0.0340 U	0.0160 J
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Notes:

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique)

	Units				
Mercury	MG/KG	0.0140 J	0.0350 U	0.0170 J	0.0240 J
					0.0220 J

Notes:

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UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0410 U	0.0200 J	0.0200 J	0.0400 J	0.0210 J
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0200 J	0.0270 J	0.0260 J	0.0260 J	0.0220 J
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0410 J	0.0200 J	0.0180 J	0.0290 J	0.0200 J
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3	72-1026-R89-SB4
Field Sample ID:	072SB-0026-0001-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18441-11	240-18441-12	240-18441-13	240-18441-14	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0320 U	0.0220 J	0.0310 U	0.0290 U	0.0320 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1	72-1026-RV4-SB2
Field Sample ID:	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO	072SB-0008-0001-SO
Lab Sample ID:	240-18441-16	240-18441-17	240-18441-1	240-18441-4	240-18441-2
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0310 U	0.0320 U	0.0240 J	0.0150 J	0.0300 J
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB2
Field Sample ID:	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO	072SB-0003-0001-SO
Lab Sample ID:	240-18441-3	240-18297-9	240-18297-10	240-18297-13	240-18297-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique)

	Units				
Mercury	MG/KG	0.0320 J	0.0390 U	0.0340 U	0.0390 U
				0.0390 U	0.0370 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3	72-1103-R88-SB4
Field Sample ID:	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO	072SB-0059-0001-SO
Lab Sample ID:	240-18297-12	240-18581-7	240-18581-8	240-18581-9	240-18581-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/7/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0160 J	0.0180 J	0.0180 J	0.0200 J	0.0190 J
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Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3	72-2F11-R41-SB4
Field Sample ID:	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO	072SB-0085-0001-SO
Lab Sample ID:	240-18581-11	240-18703-8	240-18703-9	240-18703-10	240-18703-11
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0170 J	0.0420 U	0.0370 U	0.0430 U	0.0440 U
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Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012
Field QC:	Field Duplicate		
Analysis Information:	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique)

	Units			
Mercury	MG/KG	0.0400 U	0.0350 U	0.0420 U

Notes:

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ID = Identification

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-ASY-03-SB4	72-BM-RV46-SB2	72-1026-R86-SB2	72-1026-R89-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0039-0001-SO	072SB-0065-0001-SO	072SB-0014-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18703-18	240-18449-6	240-18544-3	240-18297-17	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/6/2012	12/3/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Organochlorine Pesticides and PCBs by Capillary GC

	Units					
Aldrin	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 U	1.40 U
alpha-BHC (alpha-Hexachlorocyclohexane)	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
alpha-Chlordane	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
alpha-Endosulfan	UG/KG	0.760 UJ	0.800 U	0.760 U	0.770 UJ	0.690 U
beta-BHC (beta-Hexachlorocyclohexane)	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
beta-Endosulfan	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
delta-BHC (delta-Hexachlorocyclohexane)	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
Dieldrin	UG/KG	0.760 UJ	0.800 U	0.760 U	0.770 UJ	0.690 U
Endosulfan Sulfate	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
Endrin	UG/KG	0.760 UJ	0.800 U	0.760 U	0.770 UJ	0.690 U
Endrin Aldehyde	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
Endrin Ketone	UG/KG	0.760 UJ	0.800 U	0.760 U	0.770 UJ	0.690 U
gamma-BHC (Lindane)	UG/KG	1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-2F11-R41-SB1
Field Sample ID:	072SB-0003-0001-SO	072SB-0082-0001-SO
Lab Sample ID:	240-18297-11	240-18703-8
Lab Name:	TAM0	TAM0
Sample Date:	12/3/2012	12/10/2012
Field QC:		Field Duplicate
Analysis Information:	1X	5X

Organochlorine Pesticides and PCBs by Capillary GC

	Units		
Aldrin	UG/KG	1.50 U	8.00 UJ
alpha-BHC (alpha-Hexachlorocyclohexane)	UG/KG	1.50 U	8.00 UJ
alpha-Chlordane	UG/KG	1.50 U	8.00 UJ
alpha-Endosulfan	UG/KG	0.770 U	4.00 UJ
beta-BHC (beta-Hexachlorocyclohexane)	UG/KG	1.50 U	8.00 UJ
beta-Endosulfan	UG/KG	1.50 U	8.00 UJ
delta-BHC (delta-Hexachlorocyclohexane)	UG/KG	1.50 U	8.00 UJ
Dieldrin	UG/KG	0.770 U	4.00 UJ
Endosulfan Sulfate	UG/KG	1.50 U	8.00 UJ
Endrin	UG/KG	0.770 U	4.00 UJ
Endrin Aldehyde	UG/KG	1.50 U	8.00 UJ
Endrin Ketone	UG/KG	0.770 U	4.00 UJ
gamma-BHC (Lindane)	UG/KG	1.50 U	8.00 UJ

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-ASY-03-SB4	72-BM-RV46-SB2	72-1026-R86-SB2	72-1026-R89-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0039-0001-SO	072SB-0065-0001-SO	072SB-0014-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18703-18	240-18449-6	240-18544-3	240-18297-17	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/6/2012	12/3/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
gamma-Chlordane	UG/KG 0.760 UJ	0.800 U	0.760 U	0.770 UJ	0.690 U
Heptachlor	UG/KG 1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
Heptachlor Epoxide	UG/KG 1.50 UJ	1.60 U	1.50 U	1.50 UJ	1.40 U
Methoxychlor	UG/KG 3.80 UJ	3.90 U	3.70 U	3.80 UJ	3.40 U
p,p'-DDD	UG/KG 0.760 UJ	0.800 U	0.760 U	0.770 UJ	0.690 U
p,p'-DDE	UG/KG 0.760 UJ	0.800 U	0.760 U	0.770 UJ	0.690 U
p,p'-DDT	UG/KG 0.760 UJ	0.800 U	0.760 U	0.770 UJ	0.690 U
Toxaphene	UG/KG 23.0 U	24.0 U	23.0 UJ	23.0 U	21.0 U

Notes:

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UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-2F11-R41-SB1
Field Sample ID:	072SB-0003-0001-SO	072SB-0082-0001-SO
Lab Sample ID:	240-18297-11	240-18703-8
Lab Name:	TAM0	TAM0
Sample Date:	12/3/2012	12/10/2012
Field QC:		Field Duplicate
Analysis Information:	1X	5X
gamma-Chlordane	UG/KG 0.770 U	4.00 UJ
Heptachlor	UG/KG 1.50 U	8.00 UJ
Heptachlor Epoxide	UG/KG 1.50 U	8.00 UJ
Methoxychlor	UG/KG 3.80 U	20.0 UJ
p,p'-DDD	UG/KG 0.770 U	4.00 UJ
p,p'-DDE	UG/KG 0.770 U	4.00 UJ
p,p'-DDT	UG/KG 0.770 U	4.00 UJ
Toxaphene	UG/KG 23.0 U	120 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-ASY-03-SB4	72-BM-RV46-SB2	72-1026-R86-SB2	72-1026-R89-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0039-0001-SO	072SB-0065-0001-SO	072SB-0014-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18703-18	240-18449-6	240-18544-3	240-18297-17	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/6/2012	12/3/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Polychlorinated Biphenyls (PCB)	Units					
PCB-1016 (Arochlor 1016)	UG/KG	28.0 U	30.0 U	28.0 U	28.0 U	25.0 U
PCB-1221 (Arochlor 1221)	UG/KG	28.0 U	30.0 U	28.0 U	28.0 U	25.0 U
PCB-1232 (Arochlor 1232)	UG/KG	28.0 U	30.0 U	28.0 U	28.0 U	25.0 U
PCB-1242 (Arochlor 1242)	UG/KG	28.0 U	30.0 U	28.0 U	28.0 U	25.0 U
PCB-1248 (Arochlor 1248)	UG/KG	28.0 U	30.0 U	28.0 U	28.0 U	25.0 U
PCB-1254 (Arochlor 1254)	UG/KG	28.0 U	30.0 U	28.0 U	28.0 U	25.0 U
PCB-1260 (Arochlor 1260)	UG/KG	28.0 U	30.0 U	28.0 U	28.0 U	25.0 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-2F11-R41-SB1
Field Sample ID:	072SB-0003-0001-SO	072SB-0082-0001-SO
Lab Sample ID:	240-18297-11	240-18703-8
Lab Name:	TAM0	TAM0
Sample Date:	12/3/2012	12/10/2012
Field QC:		Field Duplicate
Analysis Information:	1X	1X

Polychlorinated Biphenyls (PCB)	Units		
PCB-1016 (Arochlor 1016)	UG/KG	29.0 U	30.0 U
PCB-1221 (Arochlor 1221)	UG/KG	29.0 U	30.0 U
PCB-1232 (Arochlor 1232)	UG/KG	29.0 U	30.0 U
PCB-1242 (Arochlor 1242)	UG/KG	29.0 U	30.0 U
PCB-1248 (Arochlor 1248)	UG/KG	29.0 U	30.0 U
PCB-1254 (Arochlor 1254)	UG/KG	29.0 U	30.0 U
PCB-1260 (Arochlor 1260)	UG/KG	29.0 U	30.0 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Chlorinated Herbicides by GC Using Units Methylation or Pentafluorobenzoylation Derivatization: Capillary Column Technique

2,4 DB	UG/KG	38.0 U	40.0 U	40.0 U	43.0 U	39.0 U
2,4,5-T (Trichlorophenoxyacetic Acid)	UG/KG	9.40 U	9.90 U	10.0 U	11.0 U	9.70 U
2,4-D (Dichlorophenoxyacetic Acid)	UG/KG	38.0 U	40.0 U	40.0 U	43.0 U	39.0 U
Dalapon	UG/KG	19.0 U	20.0 U	20.0 U	22.0 U	33.0 J
Dicamba	UG/KG	19.0 U	20.0 U	20.0 U	22.0 U	19.0 U
Dichloroprop	UG/KG	76.0 U	79.0 U	80.0 U	87.0 U	78.0 U
Dinoseb	UG/KG	11.0 U	12.0 U	12.0 U	13.0 U	12.0 U
MCPA	UG/KG	3800 UJ	4000 UJ	4000 UJ	4300 UJ	3900 UJ
MCPP	UG/KG	3800 UJ	4000 UJ	4000 UJ	4300 UJ	3900 UJ
Pentachlorophenol	UG/KG	9.40 U	9.90 U	10.0 U	11.0 U	9.70 U
Silvex (2,4,5-TP)	UG/KG	9.40 U	9.90 U	10.0 U	11.0 U	9.70 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5
Field Sample ID:	072SB-0081-0001-SO
Lab Sample ID:	240-18703-23
Lab Name:	TAM0
Sample Date:	12/10/2012
Field QC:	
Analysis Information:	1X

Chlorinated Herbicides by GC Using Units Methylation or Pentafluorobenzoylation Derivatization: Capillary Column Technique

2,4 DB	UG/KG	38.0 U
2,4,5-T (Trichlorophenoxyacetic Acid)	UG/KG	9.40 U
2,4-D (Dichlorophenoxyacetic Acid)	UG/KG	38.0 U
Dalapon	UG/KG	14.0 J
Dicamba	UG/KG	19.0 U
Dichloroprop	UG/KG	75.0 U
Dinoseb	UG/KG	11.0 U
MCPA	UG/KG	3800 UJ
MCPP	UG/KG	3800 UJ
Pentachlorophenol	UG/KG	9.40 U
Silvex (2,4,5-TP)	UG/KG	9.40 U

Notes:

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ID = Identification

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.880 U			
1,1,2,2-Tetrachloroethane	UG/KG	0.440 U			
1,1,2-Trichloroethane	UG/KG	0.440 U			
1,1-Dichloroethane	UG/KG	0.440 U			
1,1-Dichloroethene	UG/KG	0.880 U			
1,2-Dibromoethane (EDB)	UG/KG	0.880 U			
1,2-Dichloroethane	UG/KG	0.820 J			
1,2-Dichloroethene	UG/KG	0.880 U			
1,2-Dichloropropane	UG/KG	0.880 U			
2-Butanone (MEK)	UG/KG	1.80 U			
2-Hexanone	UG/KG	0.880 U			
4-Methyl-2-pentanone (MIBK)	UG/KG	0.880 U			
Acetone	UG/KG	5.50 U			
Benzene	UG/KG	0.440 U	9.90 J	1.80 J	46.0
					8.90

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG				
1,1,2,2-Tetrachloroethane	UG/KG				
1,1,2-Trichloroethane	UG/KG				
1,1-Dichloroethane	UG/KG				
1,1-Dichloroethene	UG/KG				
1,2-Dibromoethane (EDB)	UG/KG				
1,2-Dichloroethane	UG/KG				
1,2-Dichloroethene	UG/KG				
1,2-Dichloropropane	UG/KG				
2-Butanone (MEK)	UG/KG				
2-Hexanone	UG/KG				
4-Methyl-2-pentanone (MIBK)	UG/KG				
Acetone	UG/KG				
Benzene	UG/KG	0.790 U	0.440 U	0.460 U	0.510 U
					0.490 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB4	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1
Field Sample ID:	072SB-0048-0001-TB	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO
Lab Sample ID:	240-18449-15	240-18449-14	240-18449-2	240-18449-3	240-18449-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.250 U			
1,1,2,2-Tetrachloroethane	UG/KG	0.250 U			
1,1,2-Trichloroethane	UG/KG	0.500 U			
1,1-Dichloroethane	UG/KG	0.250 U			
1,1-Dichloroethene	UG/KG	0.250 U			
1,2-Dibromoethane (EDB)	UG/KG	0.250 U			
1,2-Dichloroethane	UG/KG	0.250 U			
1,2-Dichloroethene	UG/KG	0.500 U			
1,2-Dichloropropane	UG/KG	0.250 U			
2-Butanone (MEK)	UG/KG	0.570 U			
2-Hexanone	UG/KG	0.500 U			
4-Methyl-2-pentanone (MIBK)	UG/KG	0.500 U			
Acetone	UG/KG	1.10 U			
Benzene	UG/KG	0.250 U	0.540 U	0.520 U	0.480 U
					0.470 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB2	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-03-SB5
Field Sample ID:	072SB-0037-0001-SO	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0042-0001-TB
Lab Sample ID:	240-18449-4	240-18449-5	240-18449-6	240-18449-7	240-18449-9
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

Volatile Organic Compounds by Capillary GC/MS		Units				
1,1,1-Trichloroethane	UG/KG			0.980 U		0.250 U
1,1,2,2-Tetrachloroethane	UG/KG			0.490 U		0.250 U
1,1,2-Trichloroethane	UG/KG			0.490 U		0.500 U
1,1-Dichloroethane	UG/KG			0.490 U		0.250 U
1,1-Dichloroethene	UG/KG			0.980 U		0.250 U
1,2-Dibromoethane (EDB)	UG/KG			0.980 U		0.250 U
1,2-Dichloroethane	UG/KG			0.490 U		0.250 U
1,2-Dichloroethene	UG/KG			0.980 U		0.500 U
1,2-Dichloropropane	UG/KG			0.980 U		0.250 U
2-Butanone (MEK)	UG/KG			2.00 U		0.570 U
2-Hexanone	UG/KG			0.980 U		0.500 U
4-Methyl-2-pentanone (MIBK)	UG/KG			0.980 U		0.500 U
Acetone	UG/KG			6.20 U		1.10 U
Benzene	UG/KG	0.450 U	0.440 U	0.490 U	0.440 U	0.250 U

Notes:

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QC = Quality Control

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-04-SB1	72-ASY-04-SB2	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3
Field Sample ID:	072SB-0049-0001-SO	072SB-0050-0001-SO	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO
Lab Sample ID:	240-18449-16	240-18449-17	240-18449-18	240-18449-19	240-18449-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG				
1,1,2,2-Tetrachloroethane	UG/KG				
1,1,2-Trichloroethane	UG/KG				
1,1-Dichloroethane	UG/KG				
1,1-Dichloroethene	UG/KG				
1,2-Dibromoethane (EDB)	UG/KG				
1,2-Dichloroethane	UG/KG				
1,2-Dichloroethene	UG/KG				
1,2-Dichloropropane	UG/KG				
2-Butanone (MEK)	UG/KG				
2-Hexanone	UG/KG				
4-Methyl-2-pentanone (MIBK)	UG/KG				
Acetone	UG/KG				
Benzene	UG/KG	0.570 UJ	0.490 U	0.500 UJ	0.550 U
					0.480 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB4	72-ASY-05-SB4	72-SSP-08-SB1	72-SSP-08-SB2	72-SSP-08-SB3
Field Sample ID:	072SB-0054-0001-SO	072SB-0055-0001-TB	072SB-0070-0001-SO	072SB-0071-0001-SO	072SB-0072-0001-SO
Lab Sample ID:	240-18449-21	240-18449-22	240-18581-13	240-18581-14	240-18581-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.250 U			
1,1,2,2-Tetrachloroethane	UG/KG	0.250 U			
1,1,2-Trichloroethane	UG/KG	0.500 U			
1,1-Dichloroethane	UG/KG	0.250 U			
1,1-Dichloroethene	UG/KG	0.250 U			
1,2-Dibromoethane (EDB)	UG/KG	0.250 U			
1,2-Dichloroethane	UG/KG	0.250 U			
1,2-Dichloroethene	UG/KG	0.500 U			
1,2-Dichloropropane	UG/KG	0.250 U			
2-Butanone (MEK)	UG/KG	0.570 U			
2-Hexanone	UG/KG	0.500 U			
4-Methyl-2-pentanone (MIBK)	UG/KG	0.500 U			
Acetone	UG/KG	1.10 U			
Benzene	UG/KG	0.480 U	0.250 U	0.430 U	0.410 U
					0.440 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2	72-WTP-06-SB3	72-WTP-06-SB4
Field Sample ID:	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO	072SB-0089-0001-SO	072SB-0090-0001-SO
Lab Sample ID:	240-18581-16	240-18703-13	240-18703-14	240-18703-15	240-18703-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG				
1,1,2,2-Tetrachloroethane	UG/KG				
1,1,2-Trichloroethane	UG/KG				
1,1-Dichloroethane	UG/KG				
1,1-Dichloroethene	UG/KG				
1,2-Dibromoethane (EDB)	UG/KG				
1,2-Dichloroethane	UG/KG				
1,2-Dichloroethene	UG/KG				
1,2-Dichloropropane	UG/KG				
2-Butanone (MEK)	UG/KG				
2-Hexanone	UG/KG				
4-Methyl-2-pentanone (MIBK)	UG/KG				
Acetone	UG/KG				
Benzene	UG/KG	0.450 U	0.610 U	0.490 UJ	0.560 U
					0.530 U

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB2	72-BM-RV46-SB3
Field Sample ID:	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO	072SB-0065-0001-SO	072SB-0066-0001-SO
Lab Sample ID:	240-18544-1	240-18544-2	240-18544-6	240-18544-3	240-18544-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG			0.870 U	
1,1,2,2-Tetrachloroethane	UG/KG			0.430 U	
1,1,2-Trichloroethane	UG/KG			0.430 U	
1,1-Dichloroethane	UG/KG			0.430 U	
1,1-Dichloroethene	UG/KG			0.870 U	
1,2-Dibromoethane (EDB)	UG/KG			0.870 U	
1,2-Dichloroethane	UG/KG			0.430 U	
1,2-Dichloroethene	UG/KG			0.870 U	
1,2-Dichloropropane	UG/KG			0.870 U	
2-Butanone (MEK)	UG/KG			1.70 U	
2-Hexanone	UG/KG			0.870 UJ	
4-Methyl-2-pentanone (MIBK)	UG/KG			0.870 UJ	
Acetone	UG/KG			5.50 U	
Benzene	UG/KG	0.580 U	0.420 UJ	0.490 U	0.430 U
					0.410 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB4	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0067-0001-SO	072SB-0069-0001-TB	072SB-0012-0001-SO	072SB-0013-0001-SO	072SB-0019-0001-SO
Lab Sample ID:	240-18544-5	240-18544-9	240-18297-15	240-18297-16	240-18297-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.250 U			
1,1,2,2-Tetrachloroethane	UG/KG	0.250 U			
1,1,2-Trichloroethane	UG/KG	0.500 U			
1,1-Dichloroethane	UG/KG	0.250 U			
1,1-Dichloroethene	UG/KG	0.250 U			
1,2-Dibromoethane (EDB)	UG/KG	0.250 U			
1,2-Dichloroethane	UG/KG	0.250 U			
1,2-Dichloroethene	UG/KG	0.500 U			
1,2-Dichloropropane	UG/KG	0.250 U			
2-Butanone (MEK)	UG/KG	0.570 U			
2-Hexanone	UG/KG	0.500 U			
4-Methyl-2-pentanone (MIBK)	UG/KG	0.500 U			
Acetone	UG/KG	1.10 U			
Benzene	UG/KG	0.460 U	0.250 U	0.470 UJ	0.450 U
					0.440 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5	72-1026-R86-SB6
Field Sample ID:	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO	072SB-0018-0001-SO
Lab Sample ID:	240-18297-17	240-18297-18	240-18297-19	240-18297-20	240-18297-21
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.880 U			
1,1,2,2-Tetrachloroethane	UG/KG	0.440 U			
1,1,2-Trichloroethane	UG/KG	0.440 U			
1,1-Dichloroethane	UG/KG	0.440 U			
1,1-Dichloroethene	UG/KG	0.880 U			
1,2-Dibromoethane (EDB)	UG/KG	0.880 U			
1,2-Dichloroethane	UG/KG	0.440 U			
1,2-Dichloroethene	UG/KG	0.880 U			
1,2-Dichloropropane	UG/KG	0.880 U			
2-Butanone (MEK)	UG/KG	1.80 U			
2-Hexanone	UG/KG	0.880 UJ			
4-Methyl-2-pentanone (MIBK)	UG/KG	0.880 U			
Acetone	UG/KG	5.50 UJ			
Benzene	UG/KG	0.440 U	0.370 U	0.420 UJ	0.580 UJ
					0.480 UJ

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0020-0001-TB	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-23	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units					
1,1,1-Trichloroethane	UG/KG	0.250 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
1,1,2,2-Tetrachloroethane	UG/KG	0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
1,1,2-Trichloroethane	UG/KG	0.500 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
1,1-Dichloroethane	UG/KG	0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
1,1-Dichloroethene	UG/KG	0.250 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
1,2-Dibromoethane (EDB)	UG/KG	0.250 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
1,2-Dichloroethane	UG/KG	0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
1,2-Dichloroethene	UG/KG	0.500 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
1,2-Dichloropropane	UG/KG	0.250 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
2-Butanone (MEK)	UG/KG	0.570 U	1.70 U	1.90 UJ	2.30 U	2.80 UJ
2-Hexanone	UG/KG	0.500 U	0.840 UJ	0.960 UJ	1.20 UJ	1.40 UJ
4-Methyl-2-pentanone (MIBK)	UG/KG	0.500 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
Acetone	UG/KG	1.50 J	5.30 UJ	6.00 UJ	7.30 UJ	8.70 UJ
Benzene	UG/KG	0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R87-SB3	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3
Field Sample ID:	072SB-0025-0001-TB	072SB-0026-0001-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO
Lab Sample ID:	240-18441-10	240-18441-11	240-18441-12	240-18441-13	240-18441-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.250 U			
1,1,2,2-Tetrachloroethane	UG/KG	0.250 U			
1,1,2-Trichloroethane	UG/KG	0.500 U			
1,1-Dichloroethane	UG/KG	0.250 U			
1,1-Dichloroethene	UG/KG	0.250 U			
1,2-Dibromoethane (EDB)	UG/KG	0.250 U			
1,2-Dichloroethane	UG/KG	0.250 U			
1,2-Dichloroethene	UG/KG	0.500 U			
1,2-Dichloropropane	UG/KG	0.250 U			
2-Butanone (MEK)	UG/KG	0.570 U			
2-Hexanone	UG/KG	0.500 U			
4-Methyl-2-pentanone (MIBK)	UG/KG	0.500 U			
Acetone	UG/KG	1.10 U			
Benzene	UG/KG	0.250 U	0.510 UJ	0.440 UJ	0.520 U
					0.440 UJ

Notes:

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QC = Quality Control

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB3	72-1026-R89-SB4	72-1026-R89-SB4	72-1026-R89-SB5	72-1026-R89-SB5
Field Sample ID:	072SB-0033-0001-TB	072SB-0030-0001-SO	072SB-0034-0001-TB	072SB-0031-0001-SO	072SB-0032-0001-SO
Lab Sample ID:	240-18441-18	240-18441-15	240-18441-19	240-18441-16	240-18441-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.250 U	0.880 UJ	0.250 U	
1,1,2,2-Tetrachloroethane	UG/KG	0.250 U	0.440 UJ	0.250 U	
1,1,2-Trichloroethane	UG/KG	0.500 U	0.440 UJ	0.500 U	
1,1-Dichloroethane	UG/KG	0.250 U	0.440 UJ	0.250 U	
1,1-Dichloroethene	UG/KG	0.250 U	0.880 UJ	0.250 U	
1,2-Dibromoethane (EDB)	UG/KG	0.250 U	0.880 UJ	0.250 U	
1,2-Dichloroethane	UG/KG	0.250 U	0.440 UJ	0.250 U	
1,2-Dichloroethene	UG/KG	0.500 U	0.880 UJ	0.500 U	
1,2-Dichloropropane	UG/KG	0.250 U	0.880 UJ	0.250 U	
2-Butanone (MEK)	UG/KG	0.570 U	1.80 UJ	0.570 U	
2-Hexanone	UG/KG	0.500 U	0.880 UJ	0.500 U	
4-Methyl-2-pentanone (MIBK)	UG/KG	0.500 U	0.880 UJ	0.500 U	
Acetone	UG/KG	1.10 J	5.50 UJ	1.10 U	
Benzene	UG/KG	0.250 U	0.440 UJ	0.250 U	0.440 U 0.460 UJ

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB1	72-1026-RV4-SB1	72-1026-RV4-SB2	72-1026-RV4-SB3	72-1026-RV4-SB3
Field Sample ID:	072SB-0007-0001-SO	072SB-0010-0001-SO	072SB-0008-0001-SO	072SB-0009-0001-SO	072SB-0011-0001-TB
Lab Sample ID:	240-18441-1	240-18441-4	240-18441-2	240-18441-3	240-18441-30
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units					
1,1,1-Trichloroethane	UG/KG	1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.250 U
1,1,2,2-Tetrachloroethane	UG/KG	0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
1,1,2-Trichloroethane	UG/KG	0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.500 U
1,1-Dichloroethane	UG/KG	0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
1,1-Dichloroethene	UG/KG	1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.250 U
1,2-Dibromoethane (EDB)	UG/KG	1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.250 U
1,2-Dichloroethane	UG/KG	0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
1,2-Dichloroethene	UG/KG	1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.500 U
1,2-Dichloropropane	UG/KG	1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.250 U
2-Butanone (MEK)	UG/KG	2.20 UJ	2.50 U	2.50 UJ	2.30 UJ	0.570 U
2-Hexanone	UG/KG	1.10 UJ	1.30 UJ	1.30 UJ	1.10 UJ	0.500 U
4-Methyl-2-pentanone (MIBK)	UG/KG	1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.500 U
Acetone	UG/KG	6.80 UJ	7.90 UJ	7.90 UJ	7.10 UJ	1.10 U
Benzene	UG/KG	0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB2	72-1048-RV5-SB3
Field Sample ID:	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO	072SB-0003-0001-SO	072SB-0004-0001-SO
Lab Sample ID:	240-18297-9	240-18297-10	240-18297-13	240-18297-11	240-18297-12
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1.667X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG			33.0 UJ	
1,1,2,2-Tetrachloroethane	UG/KG			40.0 UJ	
1,1,2-Trichloroethane	UG/KG			40.0 UJ	
1,1-Dichloroethane	UG/KG			40.0 UJ	
1,1-Dichloroethene	UG/KG			40.0 UJ	
1,2-Dibromoethane (EDB)	UG/KG			40.0 UJ	
1,2-Dichloroethane	UG/KG			40.0 UJ	
1,2-Dichloroethene	UG/KG			13.0 UJ	
1,2-Dichloropropane	UG/KG			16.0 UJ	
2-Butanone (MEK)	UG/KG			160 UJ	
2-Hexanone	UG/KG			79.0 UJ	
4-Methyl-2-pentanone (MIBK)	UG/KG			160 UJ	
Acetone	UG/KG			320 UJ	
Benzene	UG/KG	25.0 UJ	24.0 UJ	22.0 UJ	40.0 UJ
					23.0 UJ

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3	72-1103-R88-SB4
Field Sample ID:	072SB-0006-0001-TB	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO	072SB-0059-0001-SO
Lab Sample ID:	240-18297-14	240-18581-7	240-18581-8	240-18581-9	240-18581-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/7/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.250 U			
1,1,2,2-Tetrachloroethane	UG/KG	0.250 U			
1,1,2-Trichloroethane	UG/KG	0.500 U			
1,1-Dichloroethane	UG/KG	0.250 U			
1,1-Dichloroethene	UG/KG	0.250 U			
1,2-Dibromoethane (EDB)	UG/KG	0.250 U			
1,2-Dichloroethane	UG/KG	0.250 U			
1,2-Dichloroethene	UG/KG	0.500 U			
1,2-Dichloropropane	UG/KG	0.250 U			
2-Butanone (MEK)	UG/KG	0.570 U			
2-Hexanone	UG/KG	0.500 U			
4-Methyl-2-pentanone (MIBK)	UG/KG	0.500 U			
Acetone	UG/KG	1.10 U			
Benzene	UG/KG	0.250 U	0.480 U	0.480 U	0.440 U
					0.410 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB5	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3
Field Sample ID:	072SB-0060-0001-SO	072SB-0061-0001-TB	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO
Lab Sample ID:	240-18581-11	240-18581-12	240-18703-8	240-18703-9	240-18703-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units				
1,1,1-Trichloroethane	UG/KG	0.250 U	0.960 U		
1,1,2,2-Tetrachloroethane	UG/KG	0.250 U	0.480 U		
1,1,2-Trichloroethane	UG/KG	0.500 U	0.480 U		
1,1-Dichloroethane	UG/KG	0.250 U	0.480 U		
1,1-Dichloroethene	UG/KG	0.250 U	0.960 U		
1,2-Dibromoethane (EDB)	UG/KG	0.250 U	0.960 U		
1,2-Dichloroethane	UG/KG	0.250 U	0.480 U		
1,2-Dichloroethene	UG/KG	0.500 U	0.960 U		
1,2-Dichloropropane	UG/KG	0.250 U	0.960 U		
2-Butanone (MEK)	UG/KG	0.570 U	1.90 U		
2-Hexanone	UG/KG	0.500 U	0.960 U		
4-Methyl-2-pentanone (MIBK)	UG/KG	0.500 U	0.960 U		
Acetone	UG/KG	1.10 U	6.10 U		
Benzene	UG/KG	0.440 U	0.250 U	0.480 U	0.470 U
					0.480 UJ

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0085-0001-SO	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-11	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units
1,1,1-Trichloroethane	UG/KG
1,1,2,2-Tetrachloroethane	UG/KG
1,1,2-Trichloroethane	UG/KG
1,1-Dichloroethane	UG/KG
1,1-Dichloroethene	UG/KG
1,2-Dibromoethane (EDB)	UG/KG
1,2-Dichloroethane	UG/KG
1,2-Dichloroethene	UG/KG
1,2-Dichloropropane	UG/KG
2-Butanone (MEK)	UG/KG
2-Hexanone	UG/KG
4-Methyl-2-pentanone (MIBK)	UG/KG
Acetone	UG/KG
Benzene	UG/KG 0.600 U 0.480 U 0.650 U 0.420 U

Notes:

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ID = Identification

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4	
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO	
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22	
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0	
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012	
Field QC:			Field Duplicate		Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X	
Bromochloromethane	UG/KG	0.880 U				
Bromodichloromethane	UG/KG	0.440 U				
Bromoform	UG/KG	0.440 UJ				
Bromomethane	UG/KG	0.880 U				
Carbon Disulfide	UG/KG	0.440 U				
Carbon Tetrachloride	UG/KG	0.440 U				
Chlorobenzene	UG/KG	0.440 U				
Chloroethane	UG/KG	0.880 U				
Chloroform	UG/KG	0.440 U				
Chloromethane	UG/KG	0.440 U				
cis-1,3-Dichloropropene	UG/KG	0.440 U				
Dibromochloromethane	UG/KG	0.880 U				
Ethylbenzene	UG/KG	0.440 U	22.0 J	0.710 J	30.0	22.0
Methylene Chloride	UG/KG	0.880 U				
Styrene	UG/KG	0.440 U				
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.440 U	0.400 U	0.460 U	0.540 U	0.440 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG				
Bromodichloromethane	UG/KG				
Bromoform	UG/KG				
Bromomethane	UG/KG				
Carbon Disulfide	UG/KG				
Carbon Tetrachloride	UG/KG				
Chlorobenzene	UG/KG				
Chloroethane	UG/KG				
Chloroform	UG/KG				
Chloromethane	UG/KG				
cis-1,3-Dichloropropene	UG/KG				
Dibromochloromethane	UG/KG				
Ethylbenzene	UG/KG	0.790 U	0.440 U	0.460 U	0.510 U
Methylene Chloride	UG/KG				
Styrene	UG/KG				
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.790 U	0.440 U	0.460 U	0.510 U

Notes:

J = Detected, Estimated

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB4	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1
Field Sample ID:	072SB-0048-0001-TB	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO
Lab Sample ID:	240-18449-15	240-18449-14	240-18449-2	240-18449-3	240-18449-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG	0.500 U			
Bromodichloromethane	UG/KG	0.250 U			
Bromoform	UG/KG	0.640 U			
Bromomethane	UG/KG	0.500 U			
Carbon Disulfide	UG/KG	0.250 U			
Carbon Tetrachloride	UG/KG	0.250 U			
Chlorobenzene	UG/KG	0.250 U			
Chloroethane	UG/KG	0.500 U			
Chloroform	UG/KG	0.250 U			
Chloromethane	UG/KG	0.500 U			
cis-1,3-Dichloropropene	UG/KG	0.250 U			
Dibromochloromethane	UG/KG	0.250 U			
Ethylbenzene	UG/KG	0.250 U	0.540 U	0.520 U	0.480 U
Methylene Chloride	UG/KG	0.500 U			
Styrene	UG/KG	0.250 U			
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.250 U	0.540 U	0.520 U	0.480 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB2	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-03-SB5
Field Sample ID:	072SB-0037-0001-SO	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0042-0001-TB
Lab Sample ID:	240-18449-4	240-18449-5	240-18449-6	240-18449-7	240-18449-9
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG		0.980 U		0.500 U
Bromodichloromethane	UG/KG		0.490 U		0.250 U
Bromoform	UG/KG		0.490 U		0.640 U
Bromomethane	UG/KG		0.980 U		0.500 U
Carbon Disulfide	UG/KG		0.490 U		0.250 U
Carbon Tetrachloride	UG/KG		0.490 U		0.250 U
Chlorobenzene	UG/KG		0.490 U		0.250 U
Chloroethane	UG/KG		0.980 U		0.500 U
Chloroform	UG/KG		0.490 U		0.250 U
Chloromethane	UG/KG		0.490 U		0.500 U
cis-1,3-Dichloropropene	UG/KG		0.490 U		0.250 U
Dibromochloromethane	UG/KG		0.980 U		0.250 U
Ethylbenzene	UG/KG	0.450 U	0.440 U	0.490 U	0.440 U
Methylene Chloride	UG/KG		0.980 U		0.500 U
Styrene	UG/KG		0.490 U		0.250 U
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.450 U	0.440 U	0.490 U	0.440 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-04-SB1	72-ASY-04-SB2	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	
Field Sample ID:	072SB-0049-0001-SO	072SB-0050-0001-SO	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	
Lab Sample ID:	240-18449-16	240-18449-17	240-18449-18	240-18449-19	240-18449-20	
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0	
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012	
Field QC:						
Analysis Information:	1X	1X	1X	1X	1X	
Bromochloromethane	UG/KG					
Bromodichloromethane	UG/KG					
Bromoform	UG/KG					
Bromomethane	UG/KG					
Carbon Disulfide	UG/KG					
Carbon Tetrachloride	UG/KG					
Chlorobenzene	UG/KG					
Chloroethane	UG/KG					
Chloroform	UG/KG					
Chloromethane	UG/KG					
cis-1,3-Dichloropropene	UG/KG					
Dibromochloromethane	UG/KG					
Ethylbenzene	UG/KG	0.570 UJ	0.490 U	0.500 UJ	0.550 U	0.480 U
Methylene Chloride	UG/KG					
Styrene	UG/KG					
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.570 UJ	0.490 U	0.500 UJ	0.550 U	0.480 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB4	72-ASY-05-SB4	72-SSP-08-SB1	72-SSP-08-SB2	72-SSP-08-SB3
Field Sample ID:	072SB-0054-0001-SO	072SB-0055-0001-TB	072SB-0070-0001-SO	072SB-0071-0001-SO	072SB-0072-0001-SO
Lab Sample ID:	240-18449-21	240-18449-22	240-18581-13	240-18581-14	240-18581-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG	0.500 U			
Bromodichloromethane	UG/KG	0.250 U			
Bromoform	UG/KG	0.640 U			
Bromomethane	UG/KG	0.500 U			
Carbon Disulfide	UG/KG	0.250 U			
Carbon Tetrachloride	UG/KG	0.250 U			
Chlorobenzene	UG/KG	0.250 U			
Chloroethane	UG/KG	0.500 U			
Chloroform	UG/KG	0.250 U			
Chloromethane	UG/KG	0.500 U			
cis-1,3-Dichloropropene	UG/KG	0.250 U			
Dibromochloromethane	UG/KG	0.250 U			
Ethylbenzene	UG/KG	0.480 U	0.250 U	0.430 U	0.410 U
Methylene Chloride	UG/KG	0.500 U			
Styrene	UG/KG	0.250 U			
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.480 U	0.250 U	0.430 U	0.410 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2	72-WTP-06-SB3	72-WTP-06-SB4	
Field Sample ID:	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO	072SB-0089-0001-SO	072SB-0090-0001-SO	
Lab Sample ID:	240-18581-16	240-18703-13	240-18703-14	240-18703-15	240-18703-16	
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0	
Sample Date:	12/7/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012	
Field QC:						
Analysis Information:	1X	1X	1X	1X	1X	
Bromochloromethane	UG/KG					
Bromodichloromethane	UG/KG					
Bromoform	UG/KG					
Bromomethane	UG/KG					
Carbon Disulfide	UG/KG					
Carbon Tetrachloride	UG/KG					
Chlorobenzene	UG/KG					
Chloroethane	UG/KG					
Chloroform	UG/KG					
Chloromethane	UG/KG					
cis-1,3-Dichloropropene	UG/KG					
Dibromochloromethane	UG/KG					
Ethylbenzene	UG/KG	0.450 U	0.610 U	0.490 UJ	0.560 U	0.530 U
Methylene Chloride	UG/KG					
Styrene	UG/KG					
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.450 U	0.610 U	0.490 UJ	0.560 U	0.530 U

Notes:

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QC = Quality Control

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB2	72-BM-RV46-SB3
Field Sample ID:	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO	072SB-0065-0001-SO	072SB-0066-0001-SO
Lab Sample ID:	240-18544-1	240-18544-2	240-18544-6	240-18544-3	240-18544-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG			0.870 U	
Bromodichloromethane	UG/KG			0.430 U	
Bromoform	UG/KG			0.430 U	
Bromomethane	UG/KG			0.870 U	
Carbon Disulfide	UG/KG			0.430 U	
Carbon Tetrachloride	UG/KG			0.430 U	
Chlorobenzene	UG/KG			0.430 U	
Chloroethane	UG/KG			0.870 U	
Chloroform	UG/KG			0.430 U	
Chloromethane	UG/KG			0.430 U	
cis-1,3-Dichloropropene	UG/KG			0.430 U	
Dibromochloromethane	UG/KG			0.870 U	
Ethylbenzene	UG/KG	0.580 U	0.420 UJ	0.490 U	0.430 U
Methylene Chloride	UG/KG			0.870 U	
Styrene	UG/KG			0.430 U	
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.580 U	0.420 UJ	0.490 U	0.430 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB4	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0067-0001-SO	072SB-0069-0001-TB	072SB-0012-0001-SO	072SB-0013-0001-SO	072SB-0019-0001-SO
Lab Sample ID:	240-18544-5	240-18544-9	240-18297-15	240-18297-16	240-18297-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG	0.500 U			
Bromodichloromethane	UG/KG	0.250 U			
Bromoform	UG/KG	0.640 U			
Bromomethane	UG/KG	0.500 U			
Carbon Disulfide	UG/KG	0.250 U			
Carbon Tetrachloride	UG/KG	0.250 U			
Chlorobenzene	UG/KG	0.250 U			
Chloroethane	UG/KG	0.500 U			
Chloroform	UG/KG	0.250 U			
Chloromethane	UG/KG	0.500 U			
cis-1,3-Dichloropropene	UG/KG	0.250 U			
Dibromochloromethane	UG/KG	0.250 U			
Ethylbenzene	UG/KG	0.460 U	0.250 U	0.470 UJ	0.450 U
Methylene Chloride	UG/KG	0.500 U			0.440 U
Styrene	UG/KG	0.250 U			
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.460 U	0.250 U	0.470 UJ	0.450 U

Notes:

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ID = Identification

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5	72-1026-R86-SB6
Field Sample ID:	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO	072SB-0018-0001-SO
Lab Sample ID:	240-18297-17	240-18297-18	240-18297-19	240-18297-20	240-18297-21
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG 0.880 U				
Bromodichloromethane	UG/KG 0.440 U				
Bromoform	UG/KG 0.440 U				
Bromomethane	UG/KG 0.880 U				
Carbon Disulfide	UG/KG 0.440 U				
Carbon Tetrachloride	UG/KG 0.440 U				
Chlorobenzene	UG/KG 0.440 U				
Chloroethane	UG/KG 0.880 U				
Chloroform	UG/KG 0.440 U				
Chloromethane	UG/KG 0.440 U				
cis-1,3-Dichloropropene	UG/KG 0.440 U				
Dibromochloromethane	UG/KG 0.880 U				
Ethylbenzene	UG/KG 0.440 U	0.370 U	0.420 UJ	0.580 UJ	0.480 UJ
Methylene Chloride	UG/KG 0.880 U				
Styrene	UG/KG 0.440 U				
tert-Butyl Methyl Ether (MTBE)	UG/KG 0.440 U	0.370 U	0.420 UJ	0.580 UJ	0.480 UJ

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0020-0001-TB	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-23	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG 0.500 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
Bromodichloromethane	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Bromoform	UG/KG 0.640 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Bromomethane	UG/KG 0.500 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
Carbon Disulfide	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Carbon Tetrachloride	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Chlorobenzene	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Chloroethane	UG/KG 0.500 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
Chloroform	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Chloromethane	UG/KG 0.500 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
cis-1,3-Dichloropropene	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Dibromochloromethane	UG/KG 0.250 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
Ethylbenzene	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Methylene Chloride	UG/KG 0.500 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
Styrene	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
tert-Butyl Methyl Ether (MTBE)	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R87-SB3	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3
Field Sample ID:	072SB-0025-0001-TB	072SB-0026-0001-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO
Lab Sample ID:	240-18441-10	240-18441-11	240-18441-12	240-18441-13	240-18441-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG	0.500 U			
Bromodichloromethane	UG/KG	0.250 U			
Bromoform	UG/KG	0.640 U			
Bromomethane	UG/KG	0.500 U			
Carbon Disulfide	UG/KG	0.250 U			
Carbon Tetrachloride	UG/KG	0.250 U			
Chlorobenzene	UG/KG	0.250 U			
Chloroethane	UG/KG	0.500 U			
Chloroform	UG/KG	0.250 U			
Chloromethane	UG/KG	0.500 U			
cis-1,3-Dichloropropene	UG/KG	0.250 U			
Dibromochloromethane	UG/KG	0.250 U			
Ethylbenzene	UG/KG	0.250 U	0.510 UJ	0.440 UJ	0.520 U
Methylene Chloride	UG/KG	0.500 U			0.440 UJ
Styrene	UG/KG	0.250 U			
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.250 U	0.510 UJ	0.440 UJ	0.520 U

Notes:

J = Detected, Estimated

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U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB3	72-1026-R89-SB4	72-1026-R89-SB4	72-1026-R89-SB5	72-1026-R89-SB5
Field Sample ID:	072SB-0033-0001-TB	072SB-0030-0001-SO	072SB-0034-0001-TB	072SB-0031-0001-SO	072SB-0032-0001-SO
Lab Sample ID:	240-18441-18	240-18441-15	240-18441-19	240-18441-16	240-18441-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG 0.500 U	0.880 UJ	0.500 U		
Bromodichloromethane	UG/KG 0.250 U	0.440 UJ	0.250 U		
Bromoform	UG/KG 0.640 U	0.440 UJ	0.640 U		
Bromomethane	UG/KG 0.500 U	0.880 UJ	0.500 U		
Carbon Disulfide	UG/KG 0.250 U	0.440 UJ	0.750 J		
Carbon Tetrachloride	UG/KG 0.250 U	0.440 UJ	0.250 U		
Chlorobenzene	UG/KG 0.250 U	0.440 UJ	0.250 U		
Chloroethane	UG/KG 0.500 U	0.880 UJ	0.500 U		
Chloroform	UG/KG 0.250 U	0.440 UJ	0.250 U		
Chloromethane	UG/KG 0.500 U	0.440 UJ	0.500 U		
cis-1,3-Dichloropropene	UG/KG 0.250 U	0.440 UJ	0.250 U		
Dibromochloromethane	UG/KG 0.250 U	0.880 UJ	0.250 U		
Ethylbenzene	UG/KG 0.250 U	0.440 UJ	0.250 U	0.440 U	0.460 UJ
Methylene Chloride	UG/KG 0.500 U	0.880 UJ	0.500 U		
Styrene	UG/KG 0.250 U	0.440 UJ	0.250 U		
tert-Butyl Methyl Ether (MTBE)	UG/KG 0.250 U	0.440 UJ	0.250 U	0.440 U	0.460 UJ

Notes:

J = Detected, Estimated

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U = Compound was Not Detected

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB1	72-1026-RV4-SB1	72-1026-RV4-SB2	72-1026-RV4-SB3	72-1026-RV4-SB3
Field Sample ID:	072SB-0007-0001-SO	072SB-0010-0001-SO	072SB-0008-0001-SO	072SB-0009-0001-SO	072SB-0011-0001-TB
Lab Sample ID:	240-18441-1	240-18441-4	240-18441-2	240-18441-3	240-18441-30
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG 1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.500 U
Bromodichloromethane	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Bromoform	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.640 U
Bromomethane	UG/KG 1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.500 U
Carbon Disulfide	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Carbon Tetrachloride	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Chlorobenzene	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Chloroethane	UG/KG 1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.500 U
Chloroform	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Chloromethane	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.500 U
cis-1,3-Dichloropropene	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Dibromochloromethane	UG/KG 1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.250 U
Ethylbenzene	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Methylene Chloride	UG/KG 1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.500 U
Styrene	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
tert-Butyl Methyl Ether (MTBE)	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB2	72-1048-RV5-SB3	
Field Sample ID:	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO	072SB-0003-0001-SO	072SB-0004-0001-SO	
Lab Sample ID:	240-18297-9	240-18297-10	240-18297-13	240-18297-11	240-18297-12	
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0	
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012	
Field QC:		Field Duplicate				
Analysis Information:	1X	1X	1X	1.667X	1X	
Bromochloromethane	UG/KG			40.0 UJ		
Bromodichloromethane	UG/KG			40.0 UJ		
Bromoform	UG/KG			40.0 UJ		
Bromomethane	UG/KG			79.0 UJ		
Carbon Disulfide	UG/KG			40.0 UJ		
Carbon Tetrachloride	UG/KG			14000 J		
Chlorobenzene	UG/KG			16.0 UJ		
Chloroethane	UG/KG			160 UJ		
Chloroform	UG/KG			190 J		
Chloromethane	UG/KG			40.0 UJ		
cis-1,3-Dichloropropene	UG/KG			16.0 UJ		
Dibromochloromethane	UG/KG			40.0 UJ		
Ethylbenzene	UG/KG	9.90 UJ	9.50 UJ	8.70 UJ	16.0 UJ	9.10 UJ
Methylene Chloride	UG/KG			160 UJ		
Styrene	UG/KG			16.0 UJ		
tert-Butyl Methyl Ether (MTBE)	UG/KG	9.90 UJ	9.50 UJ	8.70 UJ	16.0 UJ	9.10 UJ

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3	72-1103-R88-SB4
Field Sample ID:	072SB-0006-0001-TB	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO	072SB-0059-0001-SO
Lab Sample ID:	240-18297-14	240-18581-7	240-18581-8	240-18581-9	240-18581-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/7/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG 0.500 U				
Bromodichloromethane	UG/KG 0.250 U				
Bromoform	UG/KG 0.640 U				
Bromomethane	UG/KG 0.500 U				
Carbon Disulfide	UG/KG 0.250 U				
Carbon Tetrachloride	UG/KG 0.250 U				
Chlorobenzene	UG/KG 0.250 U				
Chloroethane	UG/KG 0.500 U				
Chloroform	UG/KG 0.250 U				
Chloromethane	UG/KG 0.500 U				
cis-1,3-Dichloropropene	UG/KG 0.250 U				
Dibromochloromethane	UG/KG 0.250 U				
Ethylbenzene	UG/KG 0.250 U	0.480 U	0.480 U	0.440 U	0.410 U
Methylene Chloride	UG/KG 0.500 U				
Styrene	UG/KG 0.250 U				
tert-Butyl Methyl Ether (MTBE)	UG/KG 0.250 U	0.480 U	0.480 U	0.440 U	0.410 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB5	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3
Field Sample ID:	072SB-0060-0001-SO	072SB-0061-0001-TB	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO
Lab Sample ID:	240-18581-11	240-18581-12	240-18703-8	240-18703-9	240-18703-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	UG/KG	0.500 U	0.960 U		
Bromodichloromethane	UG/KG	0.250 U	0.480 U		
Bromoform	UG/KG	0.640 U	0.480 U		
Bromomethane	UG/KG	0.500 U	0.960 U		
Carbon Disulfide	UG/KG	0.250 U	0.480 U		
Carbon Tetrachloride	UG/KG	0.250 U	0.480 U		
Chlorobenzene	UG/KG	0.250 U	0.480 U		
Chloroethane	UG/KG	0.500 U	0.960 U		
Chloroform	UG/KG	0.250 U	0.480 U		
Chloromethane	UG/KG	0.500 U	0.480 U		
cis-1,3-Dichloropropene	UG/KG	0.250 U	0.480 U		
Dibromochloromethane	UG/KG	0.250 U	0.960 U		
Ethylbenzene	UG/KG 0.440 U	0.250 U	0.480 U	0.470 U	0.480 UJ
Methylene Chloride	UG/KG	0.500 U	0.960 U		
Styrene	UG/KG	0.250 U	0.480 U		
tert-Butyl Methyl Ether (MTBE)	UG/KG 0.440 U	0.250 U	0.480 U	0.470 U	0.480 UJ

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0085-0001-SO	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-11	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
Bromochloromethane	UG/KG			
Bromodichloromethane	UG/KG			
Bromoform	UG/KG			
Bromomethane	UG/KG			
Carbon Disulfide	UG/KG			
Carbon Tetrachloride	UG/KG			
Chlorobenzene	UG/KG			
Chloroethane	UG/KG			
Chloroform	UG/KG			
Chloromethane	UG/KG			
cis-1,3-Dichloropropene	UG/KG			
Dibromochloromethane	UG/KG			
Ethylbenzene	UG/KG	0.600 U	0.480 U	0.650 U
Methylene Chloride	UG/KG			0.420 U
Styrene	UG/KG			
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.600 U	0.480 U	0.650 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG 0.880 U				
Toluene	UG/KG 3.80 J	52.0 J	6.70 J	140	87.0
trans-1,3-Dichloropropene	UG/KG 0.880 U				
Trichloroethene (TCE)	UG/KG 0.440 U				
Vinyl Chloride	UG/KG 0.440 U				
Xylenes, Total	UG/KG 1.30 U	150 J	5.40 J	230	140

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG				
Toluene	UG/KG	5.30 J	0.440 U	0.460 U	0.510 U
trans-1,3-Dichloropropene	UG/KG				
Trichloroethene (TCE)	UG/KG				
Vinyl Chloride	UG/KG				
Xylenes, Total	UG/KG	2.40 U	1.30 U	1.40 U	1.50 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB4	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1
Field Sample ID:	072SB-0048-0001-TB	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO
Lab Sample ID:	240-18449-15	240-18449-14	240-18449-2	240-18449-3	240-18449-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG 0.500 U				
Toluene	UG/KG 0.250 U	0.540 U	0.520 U	0.480 U	0.470 U
trans-1,3-Dichloropropene	UG/KG 0.250 U				
Trichloroethene (TCE)	UG/KG 0.250 U				
Vinyl Chloride	UG/KG 0.250 U				
Xylenes, Total	UG/KG 0.750 U	1.60 U	1.60 U	1.40 U	1.40 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB2	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-03-SB5
Field Sample ID:	072SB-0037-0001-SO	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0042-0001-TB
Lab Sample ID:	240-18449-4	240-18449-5	240-18449-6	240-18449-7	240-18449-9
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG		0.980 U		0.500 U
Toluene	UG/KG	0.450 U	0.440 U	0.790 J	0.440 U
trans-1,3-Dichloropropene	UG/KG		0.980 U		0.250 U
Trichloroethene (TCE)	UG/KG		0.490 U		0.250 U
Vinyl Chloride	UG/KG		0.490 U		0.250 U
Xylenes, Total	UG/KG	1.40 U	1.30 U	1.50 U	1.30 U
					0.750 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-04-SB1	72-ASY-04-SB2	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3
Field Sample ID:	072SB-0049-0001-SO	072SB-0050-0001-SO	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO
Lab Sample ID:	240-18449-16	240-18449-17	240-18449-18	240-18449-19	240-18449-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG				
Toluene	UG/KG	0.570 UJ	0.490 U	0.500 UJ	0.550 U
trans-1,3-Dichloropropene	UG/KG				
Trichloroethene (TCE)	UG/KG				
Vinyl Chloride	UG/KG				
Xylenes, Total	UG/KG	1.70 UJ	1.50 U	1.50 UJ	1.60 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB4	72-ASY-05-SB4	72-SSP-08-SB1	72-SSP-08-SB2	72-SSP-08-SB3
Field Sample ID:	072SB-0054-0001-SO	072SB-0055-0001-TB	072SB-0070-0001-SO	072SB-0071-0001-SO	072SB-0072-0001-SO
Lab Sample ID:	240-18449-21	240-18449-22	240-18581-13	240-18581-14	240-18581-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG	0.500 U			
Toluene	UG/KG	0.480 U	0.250 U	1.10 J	1.20 J
trans-1,3-Dichloropropene	UG/KG		0.250 U		1.00 J
Trichloroethene (TCE)	UG/KG		0.250 U		
Vinyl Chloride	UG/KG		0.250 U		
Xylenes, Total	UG/KG	1.40 U	0.750 U	1.30 U	1.20 U
				1.30 U	

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2	72-WTP-06-SB3	72-WTP-06-SB4
Field Sample ID:	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO	072SB-0089-0001-SO	072SB-0090-0001-SO
Lab Sample ID:	240-18581-16	240-18703-13	240-18703-14	240-18703-15	240-18703-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG				
Toluene	UG/KG	1.00 J	6.20	5.20 J	3.80 J
trans-1,3-Dichloropropene	UG/KG				
Trichloroethene (TCE)	UG/KG				
Vinyl Chloride	UG/KG				
Xylenes, Total	UG/KG	1.40 U	1.80 U	1.50 UJ	1.70 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB2	72-BM-RV46-SB3
Field Sample ID:	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO	072SB-0065-0001-SO	072SB-0066-0001-SO
Lab Sample ID:	240-18544-1	240-18544-2	240-18544-6	240-18544-3	240-18544-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG			0.870 U	
Toluene	UG/KG	0.580 U	0.940 J	3.10 J	0.860 J
trans-1,3-Dichloropropene	UG/KG			0.870 U	0.530 J
Trichloroethene (TCE)	UG/KG			0.430 U	
Vinyl Chloride	UG/KG			0.430 U	
Xylenes, Total	UG/KG	1.80 U	1.30 UJ	1.50 U	1.30 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB4	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0067-0001-SO	072SB-0069-0001-TB	072SB-0012-0001-SO	072SB-0013-0001-SO	072SB-0019-0001-SO
Lab Sample ID:	240-18544-5	240-18544-9	240-18297-15	240-18297-16	240-18297-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG	0.500 U			
Toluene	UG/KG	3.00 J	0.250 U	0.470 UJ	0.450 U
trans-1,3-Dichloropropene	UG/KG	0.250 U			
Trichloroethene (TCE)	UG/KG	0.250 U			
Vinyl Chloride	UG/KG	0.250 U			
Xylenes, Total	UG/KG	1.40 U	0.750 U	1.40 UJ	1.30 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5	72-1026-R86-SB6
Field Sample ID:	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO	072SB-0018-0001-SO
Lab Sample ID:	240-18297-17	240-18297-18	240-18297-19	240-18297-20	240-18297-21
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG 0.880 U				
Toluene	UG/KG 0.440 U	0.370 U	0.420 UJ	0.580 UJ	0.480 UJ
trans-1,3-Dichloropropene	UG/KG 0.880 U				
Trichloroethene (TCE)	UG/KG 0.440 U				
Vinyl Chloride	UG/KG 0.440 U				
Xylenes, Total	UG/KG 1.30 U	1.10 U	1.30 UJ	1.70 UJ	1.40 UJ

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0020-0001-TB	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-23	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG 0.500 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
Toluene	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
trans-1,3-Dichloropropene	UG/KG 0.250 U	0.840 U	0.960 UJ	1.20 U	1.40 UJ
Trichloroethene (TCE)	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Vinyl Chloride	UG/KG 0.250 U	0.420 U	0.480 UJ	0.580 U	0.690 UJ
Xylenes, Total	UG/KG 0.750 U	1.30 U	1.40 UJ	1.70 U	2.10 UJ

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R87-SB3	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3
Field Sample ID:	072SB-0025-0001-TB	072SB-0026-0001-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO
Lab Sample ID:	240-18441-10	240-18441-11	240-18441-12	240-18441-13	240-18441-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG 0.500 U				
Toluene	UG/KG 0.250 U	0.510 UJ	0.440 UJ	0.520 U	0.440 UJ
trans-1,3-Dichloropropene	UG/KG 0.250 U				
Trichloroethene (TCE)	UG/KG 0.250 U				
Vinyl Chloride	UG/KG 0.250 U				
Xylenes, Total	UG/KG 0.750 U	1.50 UJ	1.30 UJ	1.60 U	1.30 UJ

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB3	72-1026-R89-SB4	72-1026-R89-SB4	72-1026-R89-SB5	72-1026-R89-SB5
Field Sample ID:	072SB-0033-0001-TB	072SB-0030-0001-SO	072SB-0034-0001-TB	072SB-0031-0001-SO	072SB-0032-0001-SO
Lab Sample ID:	240-18441-18	240-18441-15	240-18441-19	240-18441-16	240-18441-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG 0.500 U	0.880 UJ	0.500 U		
Toluene	UG/KG 0.250 U	0.440 UJ	0.250 U	0.440 U	0.460 UJ
trans-1,3-Dichloropropene	UG/KG 0.250 U	0.880 UJ	0.250 U		
Trichloroethene (TCE)	UG/KG 0.250 U	0.440 UJ	0.250 U		
Vinyl Chloride	UG/KG 0.250 U	0.440 UJ	0.250 U		
Xylenes, Total	UG/KG 0.750 U	1.30 UJ	0.750 U	1.30 U	1.40 UJ

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB1	72-1026-RV4-SB1	72-1026-RV4-SB2	72-1026-RV4-SB3	72-1026-RV4-SB3
Field Sample ID:	072SB-0007-0001-SO	072SB-0010-0001-SO	072SB-0008-0001-SO	072SB-0009-0001-SO	072SB-0011-0001-TB
Lab Sample ID:	240-18441-1	240-18441-4	240-18441-2	240-18441-3	240-18441-30
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG 1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.500 U
Toluene	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
trans-1,3-Dichloropropene	UG/KG 1.10 UJ	1.30 U	1.30 UJ	1.10 UJ	0.250 U
Trichloroethene (TCE)	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Vinyl Chloride	UG/KG 0.540 UJ	0.630 U	0.630 UJ	0.560 UJ	0.250 U
Xylenes, Total	UG/KG 1.60 UJ	1.90 U	1.90 UJ	1.70 UJ	0.750 U

Notes:

J = Detected, Estimated

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB2	72-1048-RV5-SB3
Field Sample ID:	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO	072SB-0003-0001-SO	072SB-0004-0001-SO
Lab Sample ID:	240-18297-9	240-18297-10	240-18297-13	240-18297-11	240-18297-12
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1.667X	1X
Tetrachloroethene (PCE)	UG/KG			40.0 UJ	
Toluene	UG/KG	25.0 UJ	24.0 UJ	22.0 UJ	40.0 UJ
trans-1,3-Dichloropropene	UG/KG			40.0 UJ	23.0 UJ
Trichloroethene (TCE)	UG/KG			40.0 UJ	
Vinyl Chloride	UG/KG			40.0 UJ	
Xylenes, Total	UG/KG	30.0 UJ	29.0 UJ	26.0 UJ	47.0 UJ
					27.0 UJ

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3	72-1103-R88-SB4
Field Sample ID:	072SB-0006-0001-TB	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO	072SB-0059-0001-SO
Lab Sample ID:	240-18297-14	240-18581-7	240-18581-8	240-18581-9	240-18581-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/7/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG 0.500 U				
Toluene	UG/KG 0.250 U	1.90 J	1.90 J	1.30 J	1.20 J
trans-1,3-Dichloropropene	UG/KG 0.250 U				
Trichloroethene (TCE)	UG/KG 0.250 U				
Vinyl Chloride	UG/KG 0.250 U				
Xylenes, Total	UG/KG 0.750 U	1.40 U	1.40 U	1.30 U	1.20 U

Notes:

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UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB5	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3
Field Sample ID:	072SB-0060-0001-SO	072SB-0061-0001-TB	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO
Lab Sample ID:	240-18581-11	240-18581-12	240-18703-8	240-18703-9	240-18703-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG	0.500 U	0.960 U		
Toluene	UG/KG	1.40 J	0.250 U	1.70 J	3.50 J
trans-1,3-Dichloropropene	UG/KG		0.250 U	0.960 U	
Trichloroethene (TCE)	UG/KG		0.250 U	0.480 U	
Vinyl Chloride	UG/KG		0.250 U	0.480 U	
Xylenes, Total	UG/KG	1.30 U	0.750 U	1.40 U	1.40 UJ

Notes:

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QC = Quality Control

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0085-0001-SO	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-11	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
Tetrachloroethene (PCE)	UG/KG			
Toluene	UG/KG	4.30 J	2.60 J	5.00 J
trans-1,3-Dichloropropene	UG/KG			
Trichloroethene (TCE)	UG/KG			
Vinyl Chloride	UG/KG			
Xylenes, Total	UG/KG	1.80 U	1.40 U	2.00 U
				1.30 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units					
1,2,4-Trichlorobenzene	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
1,2-Dichlorobenzene	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
1,3-Dichlorobenzene	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
1,4-Dichlorobenzene	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
2,4,5-Trichlorophenol	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
2,4,6-Trichlorophenol	UG/KG	93.0 U	95.0 U	98.0 U	100 U	94.0 U
2,4-Dichlorophenol	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
2,4-Dimethylphenol	UG/KG	93.0 U	95.0 U	98.0 U	100 U	94.0 U
2,4-Dinitrophenol	UG/KG	93.0 U	95.0 UJ	98.0 UJ	100 UJ	94.0 UJ
2,4-Dinitrotoluene	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
2,6-Dinitrotoluene	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
2-Chloronaphthalene	UG/KG	3.80 U	3.90 U	4.10 U	4.30 U	3.90 U
2-Chlorophenol	UG/KG	31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
2-Methylnaphthalene	UG/KG	3.80 U	3.90 U	4.10 U	11.0	17.0

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units	
1,2,4-Trichlorobenzene	UG/KG	30.0 U
1,2-Dichlorobenzene	UG/KG	30.0 U
1,3-Dichlorobenzene	UG/KG	30.0 U
1,4-Dichlorobenzene	UG/KG	30.0 U
2,4,5-Trichlorophenol	UG/KG	30.0 U
2,4,6-Trichlorophenol	UG/KG	90.0 U
2,4-Dichlorophenol	UG/KG	30.0 U
2,4-Dimethylphenol	UG/KG	90.0 U
2,4-Dinitrophenol	UG/KG	90.0 U
2,4-Dinitrotoluene	UG/KG	30.0 U
2,6-Dinitrotoluene	UG/KG	30.0 U
2-Chloronaphthalene	UG/KG	3.70 U
2-Chlorophenol	UG/KG	30.0 U
2-Methylnaphthalene	UG/KG	3.70 U

Notes:

J = Detected, Estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units				
1,2,4-Trichlorobenzene	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
1,2-Dichlorobenzene	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
1,3-Dichlorobenzene	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
1,4-Dichlorobenzene	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
2,4,5-Trichlorophenol	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
2,4,6-Trichlorophenol	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
2,4-Dichlorophenol	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
2,4-Dimethylphenol	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
2,4-Dinitrophenol	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
2,4-Dinitrotoluene	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
2,6-Dinitrotoluene	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
2-Chloronaphthalene	UG/KG	4.00 U	3.80 U	4.00 U	3.90 U
2-Chlorophenol	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
2-Methylnaphthalene	UG/KG	13.0	27.0	14.0	3.90 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units			
1,2,4-Trichlorobenzene	UG/KG	31.0 U	32.0 U	31.0 U
1,2-Dichlorobenzene	UG/KG	31.0 U	32.0 U	31.0 U
1,3-Dichlorobenzene	UG/KG	31.0 U	32.0 U	31.0 U
1,4-Dichlorobenzene	UG/KG	31.0 U	32.0 U	31.0 U
2,4,5-Trichlorophenol	UG/KG	31.0 U	32.0 U	31.0 U
2,4,6-Trichlorophenol	UG/KG	92.0 U	96.0 U	93.0 U
2,4-Dichlorophenol	UG/KG	31.0 U	32.0 U	31.0 U
2,4-Dimethylphenol	UG/KG	92.0 U	96.0 U	93.0 U
2,4-Dinitrophenol	UG/KG	92.0 U	96.0 U	93.0 U
2,4-Dinitrotoluene	UG/KG	31.0 U	32.0 U	31.0 U
2,6-Dinitrotoluene	UG/KG	31.0 U	32.0 U	31.0 U
2-Chloronaphthalene	UG/KG	3.80 U	4.00 U	3.80 U
2-Chlorophenol	UG/KG	31.0 U	32.0 U	31.0 U
2-Methylnaphthalene	UG/KG	3.80 U	4.00 U	3.80 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units
1,2,4-Trichlorobenzene	UG/KG
1,2-Dichlorobenzene	UG/KG
1,3-Dichlorobenzene	UG/KG
1,4-Dichlorobenzene	UG/KG
2,4,5-Trichlorophenol	UG/KG
2,4,6-Trichlorophenol	UG/KG
2,4-Dichlorophenol	UG/KG
2,4-Dimethylphenol	UG/KG
2,4-Dinitrophenol	UG/KG
2,4-Dinitrotoluene	UG/KG
2,6-Dinitrotoluene	UG/KG
2-Chloronaphthalene	UG/KG
2-Chlorophenol	UG/KG
2-Methylnaphthalene	UG/KG

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units		
1,2,4-Trichlorobenzene	UG/KG	29.0 U	29.0 U
1,2-Dichlorobenzene	UG/KG	29.0 U	29.0 U
1,3-Dichlorobenzene	UG/KG	29.0 U	29.0 U
1,4-Dichlorobenzene	UG/KG	29.0 U	29.0 U
2,4,5-Trichlorophenol	UG/KG	29.0 U	29.0 U
2,4,6-Trichlorophenol	UG/KG	86.0 U	87.0 U
2,4-Dichlorophenol	UG/KG	29.0 U	29.0 U
2,4-Dimethylphenol	UG/KG	86.0 U	87.0 U
2,4-Dinitrophenol	UG/KG	86.0 UJ	87.0 UJ
2,4-Dinitrotoluene	UG/KG	29.0 U	29.0 U
2,6-Dinitrotoluene	UG/KG	29.0 U	29.0 U
2-Chloronaphthalene	UG/KG	3.60 U	3.60 U
2-Chlorophenol	UG/KG	29.0 U	29.0 U
2-Methylnaphthalene	UG/KG	3.90 J	3.60 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units					
1,2,4-Trichlorobenzene	UG/KG	30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
1,2-Dichlorobenzene	UG/KG	30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
1,3-Dichlorobenzene	UG/KG	30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
1,4-Dichlorobenzene	UG/KG	30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
2,4,5-Trichlorophenol	UG/KG	30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
2,4,6-Trichlorophenol	UG/KG	90.0 U	90.0 U	91.0 U	89.0 U	87.0 U
2,4-Dichlorophenol	UG/KG	30.0 U	30.0 U	31.0 UJ	30.0 UJ	29.0 UJ
2,4-Dimethylphenol	UG/KG	90.0 U	90.0 U	91.0 U	89.0 U	87.0 U
2,4-Dinitrophenol	UG/KG	90.0 UJ	90.0 UJ	91.0 U	89.0 U	87.0 U
2,4-Dinitrotoluene	UG/KG	30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
2,6-Dinitrotoluene	UG/KG	30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
2-Chloronaphthalene	UG/KG	3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
2-Chlorophenol	UG/KG	30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
2-Methylnaphthalene	UG/KG	3.70 U	3.70 U	3.70 U	3.70 U	3.60 U

Notes:

J = Detected, Estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	4X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units			
1,2,4-Trichlorobenzene	UG/KG	30.0 U	31.0 U	120 U
1,2-Dichlorobenzene	UG/KG	30.0 U	31.0 U	120 U
1,3-Dichlorobenzene	UG/KG	30.0 U	31.0 U	120 U
1,4-Dichlorobenzene	UG/KG	30.0 U	31.0 U	120 U
2,4,5-Trichlorophenol	UG/KG	30.0 U	31.0 U	120 U
2,4,6-Trichlorophenol	UG/KG	89.0 U	91.0 U	350 U
2,4-Dichlorophenol	UG/KG	30.0 UJ	31.0 UJ	120 UJ
2,4-Dimethylphenol	UG/KG	89.0 U	91.0 U	350 U
2,4-Dinitrophenol	UG/KG	89.0 U	91.0 U	350 U
2,4-Dinitrotoluene	UG/KG	30.0 U	31.0 U	120 U
2,6-Dinitrotoluene	UG/KG	30.0 U	31.0 U	120 U
2-Chloronaphthalene	UG/KG	3.70 U	3.80 U	15.0 U
2-Chlorophenol	UG/KG	30.0 U	31.0 U	120 U
2-Methylnaphthalene	UG/KG	3.70 U	3.80 U	15.0 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units	
1,2,4-Trichlorobenzene	UG/KG	30.0 U
1,2-Dichlorobenzene	UG/KG	30.0 U
1,3-Dichlorobenzene	UG/KG	30.0 U
1,4-Dichlorobenzene	UG/KG	30.0 U
2,4,5-Trichlorophenol	UG/KG	30.0 U
2,4,6-Trichlorophenol	UG/KG	90.0 U
2,4-Dichlorophenol	UG/KG	30.0 U
2,4-Dimethylphenol	UG/KG	90.0 U
2,4-Dinitrophenol	UG/KG	90.0 UJ
2,4-Dinitrotoluene	UG/KG	30.0 U
2,6-Dinitrotoluene	UG/KG	30.0 U
2-Chloronaphthalene	UG/KG	3.70 U
2-Chlorophenol	UG/KG	30.0 U
2-Methylnaphthalene	UG/KG	3.70 U

Notes:

J = Detected, Estimated

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U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units
1,2,4-Trichlorobenzene	UG/KG
1,2-Dichlorobenzene	UG/KG
1,3-Dichlorobenzene	UG/KG
1,4-Dichlorobenzene	UG/KG
2,4,5-Trichlorophenol	UG/KG
2,4,6-Trichlorophenol	UG/KG
2,4-Dichlorophenol	UG/KG
2,4-Dimethylphenol	UG/KG
2,4-Dinitrophenol	UG/KG
2,4-Dinitrotoluene	UG/KG
2,6-Dinitrotoluene	UG/KG
2-Chloronaphthalene	UG/KG
2-Chlorophenol	UG/KG
2-Methylnaphthalene	UG/KG

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3
Field Sample ID:	072SB-0026-0001-SO	072SB-0026-0002-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO
Lab Sample ID:	240-18441-11	240-18441-17	240-18441-12	240-18441-13	240-18441-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units				
1,2,4-Trichlorobenzene	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
1,2-Dichlorobenzene	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
1,3-Dichlorobenzene	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
1,4-Dichlorobenzene	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
2,4,5-Trichlorophenol	UG/KG	28.0 U	28.0 U	28.0 UJ	28.0 U
2,4,6-Trichlorophenol	UG/KG	83.0 U	83.0 U	84.0 UJ	83.0 U
2,4-Dichlorophenol	UG/KG	28.0 U	28.0 U	28.0 UJ	28.0 U
2,4-Dimethylphenol	UG/KG	83.0 U	83.0 U	84.0 UJ	83.0 U
2,4-Dinitrophenol	UG/KG	83.0 U	83.0 U	84.0 UJ	83.0 U
2,4-Dinitrotoluene	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
2,6-Dinitrotoluene	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
2-Chloronaphthalene	UG/KG	3.40 UJ	3.40 U	3.40 UJ	3.40 U
2-Chlorophenol	UG/KG	28.0 U	28.0 U	28.0 UJ	28.0 U
2-Methylnaphthalene	UG/KG	100 J	11.0 J	67.0 J	130

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB4	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1
Field Sample ID:	072SB-0030-0001-SO	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO
Lab Sample ID:	240-18441-15	240-18441-16	240-18441-17	240-18441-1	240-18441-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units			
1,2,4-Trichlorobenzene	UG/KG	28.0 U	28.0 U	28.0 UJ
1,2-Dichlorobenzene	UG/KG	28.0 U	28.0 U	28.0 UJ
1,3-Dichlorobenzene	UG/KG	28.0 U	28.0 U	28.0 UJ
1,4-Dichlorobenzene	UG/KG	28.0 U	28.0 U	28.0 UJ
2,4,5-Trichlorophenol	UG/KG	28.0 U	28.0 U	28.0 UJ
2,4,6-Trichlorophenol	UG/KG	82.0 U	84.0 U	83.0 UJ
2,4-Dichlorophenol	UG/KG	28.0 U	28.0 U	28.0 UJ
2,4-Dimethylphenol	UG/KG	82.0 U	84.0 U	83.0 UJ
2,4-Dinitrophenol	UG/KG	82.0 U	84.0 U	83.0 UJ
2,4-Dinitrotoluene	UG/KG	28.0 U	28.0 U	28.0 UJ
2,6-Dinitrotoluene	UG/KG	28.0 U	28.0 U	28.0 UJ
2-Chloronaphthalene	UG/KG	3.40 U	3.50 U	3.40 UJ
2-Chlorophenol	UG/KG	28.0 U	28.0 U	28.0 UJ
2-Methylnaphthalene	UG/KG	83.0	110	120 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB2	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1
Field Sample ID:	072SB-0008-0001-SO	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO
Lab Sample ID:	240-18441-2	240-18441-3	240-18297-9	240-18297-10	240-18297-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units
1,2,4-Trichlorobenzene	UG/KG
1,2-Dichlorobenzene	UG/KG
1,3-Dichlorobenzene	UG/KG
1,4-Dichlorobenzene	UG/KG
2,4,5-Trichlorophenol	UG/KG
2,4,6-Trichlorophenol	UG/KG
2,4-Dichlorophenol	UG/KG
2,4-Dimethylphenol	UG/KG
2,4-Dinitrophenol	UG/KG
2,4-Dinitrotoluene	UG/KG
2,6-Dinitrotoluene	UG/KG
2-Chloronaphthalene	UG/KG
2-Chlorophenol	UG/KG
2-Methylnaphthalene	UG/KG

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3
Field Sample ID:	072SB-0003-0001-SO	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO
Lab Sample ID:	240-18297-11	240-18297-12	240-18581-7	240-18581-8	240-18581-9
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units	
1,2,4-Trichlorobenzene	UG/KG	32.0 U
1,2-Dichlorobenzene	UG/KG	32.0 U
1,3-Dichlorobenzene	UG/KG	32.0 U
1,4-Dichlorobenzene	UG/KG	32.0 U
2,4,5-Trichlorophenol	UG/KG	32.0 U
2,4,6-Trichlorophenol	UG/KG	94.0 U
2,4-Dichlorophenol	UG/KG	32.0 U
2,4-Dimethylphenol	UG/KG	94.0 U
2,4-Dinitrophenol	UG/KG	94.0 UJ
2,4-Dinitrotoluene	UG/KG	32.0 U
2,6-Dinitrotoluene	UG/KG	32.0 U
2-Chloronaphthalene	UG/KG	3.90 U
2-Chlorophenol	UG/KG	32.0 U
2-Methylnaphthalene	UG/KG	3.90 U

Notes:

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UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB4	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3
Field Sample ID:	072SB-0059-0001-SO	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO
Lab Sample ID:	240-18581-10	240-18581-11	240-18703-8	240-18703-9	240-18703-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units			
1,2,4-Trichlorobenzene	UG/KG	32.0 U	31.0 U	31.0 U
1,2-Dichlorobenzene	UG/KG	32.0 U	31.0 U	31.0 U
1,3-Dichlorobenzene	UG/KG	32.0 U	31.0 U	31.0 U
1,4-Dichlorobenzene	UG/KG	32.0 U	31.0 U	31.0 U
2,4,5-Trichlorophenol	UG/KG	32.0 U	31.0 U	31.0 U
2,4,6-Trichlorophenol	UG/KG	94.0 U	92.0 U	92.0 U
2,4-Dichlorophenol	UG/KG	32.0 U	31.0 U	31.0 U
2,4-Dimethylphenol	UG/KG	94.0 U	92.0 U	92.0 U
2,4-Dinitrophenol	UG/KG	94.0 UJ	92.0 UJ	92.0 UJ
2,4-Dinitrotoluene	UG/KG	32.0 U	31.0 U	31.0 U
2,6-Dinitrotoluene	UG/KG	32.0 U	31.0 U	31.0 U
2-Chloronaphthalene	UG/KG	3.90 U	3.80 U	3.80 U
2-Chlorophenol	UG/KG	32.0 U	31.0 U	31.0 U
2-Methylnaphthalene	UG/KG	17.0	3.80 U	3.80 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0085-0001-SO	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-11	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

	Units			
1,2,4-Trichlorobenzene	UG/KG	32.0 U	31.0 U	31.0 U
1,2-Dichlorobenzene	UG/KG	32.0 U	31.0 U	31.0 U
1,3-Dichlorobenzene	UG/KG	32.0 U	31.0 U	31.0 U
1,4-Dichlorobenzene	UG/KG	32.0 U	31.0 U	31.0 U
2,4,5-Trichlorophenol	UG/KG	32.0 U	31.0 U	31.0 U
2,4,6-Trichlorophenol	UG/KG	94.0 U	92.0 U	90.0 U
2,4-Dichlorophenol	UG/KG	32.0 U	31.0 U	31.0 U
2,4-Dimethylphenol	UG/KG	94.0 U	92.0 U	90.0 U
2,4-Dinitrophenol	UG/KG	94.0 UJ	92.0 UJ	90.0 UJ
2,4-Dinitrotoluene	UG/KG	32.0 U	31.0 U	31.0 U
2,6-Dinitrotoluene	UG/KG	32.0 U	31.0 U	31.0 U
2-Chloronaphthalene	UG/KG	3.90 U	3.80 U	3.70 U
2-Chlorophenol	UG/KG	32.0 U	31.0 U	31.0 U
2-Methylnaphthalene	UG/KG	3.90 U	3.80 U	3.70 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG 93.0 U	95.0 U	98.0 U	100 U	94.0 U
2-Nitroaniline	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
2-Nitrophenol	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
3,3'-Dichlorobenzidine	UG/KG 93.0 U	95.0 UJ	98.0 UJ	100 UJ	94.0 UJ
3-Nitroaniline	UG/KG 93.0 U	95.0 U	98.0 U	100 U	94.0 U
4,6-Dinitro-2-Methylphenol	UG/KG 93.0 U	95.0 UJ	98.0 UJ	100 UJ	94.0 UJ
4-Bromophenyl phenyl ether	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
4-Chloro-3-Methylphenol	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
4-Chloroaniline	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
4-Chlorophenyl Phenyl Ether	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
4-Nitroaniline	UG/KG 31.0 UJ	32.0 U	33.0 U	35.0 U	32.0 U
4-Nitrophenol	UG/KG 93.0 U	95.0 U	98.0 U	100 U	94.0 U
Acenaphthene	UG/KG 3.80 U	3.90 U	4.10 U	4.30 U	3.90 U
Acenaphthylene	UG/KG 3.80 U	7.60 J	4.10 U	5.30 J	3.90 U
Anthracene	UG/KG 3.80 U	5.80 J	4.80 J	5.50 J	3.90 U
Benzo(a)anthracene	UG/KG 3.80 U	55.0 J	24.0 J	46.0	3.90 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG	90.0 U			
2-Nitroaniline	UG/KG	30.0 U			
2-Nitrophenol	UG/KG	30.0 U			
3,3'-Dichlorobenzidine	UG/KG	90.0 U			
3-Nitroaniline	UG/KG	90.0 U			
4,6-Dinitro-2-Methylphenol	UG/KG	90.0 U			
4-Bromophenyl phenyl ether	UG/KG	30.0 U			
4-Chloro-3-Methylphenol	UG/KG	30.0 U			
4-Chloroaniline	UG/KG	30.0 U			
4-Chlorophenyl Phenyl Ether	UG/KG	30.0 U			
4-Nitroaniline	UG/KG	30.0 UJ			
4-Nitrophenol	UG/KG	90.0 U			
Acenaphthene	UG/KG	3.70 U	3.90 U	3.80 U	3.70 U
Acenaphthylene	UG/KG	3.70 U	3.90 U	3.80 U	3.70 U
Anthracene	UG/KG	3.70 U	3.90 U	3.80 U	3.70 U
Benzo(a)anthracene	UG/KG	3.70 U	3.90 U	8.30	3.70 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:	Field Duplicate				
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
2-Nitroaniline	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
2-Nitrophenol	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
3,3'-Dichlorobenzidine	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
3-Nitroaniline	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
4,6-Dinitro-2-Methylphenol	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
4-Bromophenyl phenyl ether	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
4-Chloro-3-Methylphenol	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
4-Chloroaniline	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
4-Chlorophenyl Phenyl Ether	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
4-Nitroaniline	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
4-Nitrophenol	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
Acenaphthene	UG/KG 3.70 U	4.00 U	3.80 U	4.00 U	3.90 U
Acenaphthylene	UG/KG 3.70 U	4.00 U	3.80 U	4.00 U	3.90 U
Anthracene	UG/KG 3.70 U	4.00 U	3.80 U	4.00 U	3.90 U
Benzo(a)anthracene	UG/KG 3.70 U	4.00 U	3.80 U	4.00 U	3.90 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG 92.0 U	96.0 U	93.0 U		
2-Nitroaniline	UG/KG 31.0 U	32.0 U	31.0 U		
2-Nitrophenol	UG/KG 31.0 U	32.0 U	31.0 U		
3,3'-Dichlorobenzidine	UG/KG 92.0 U	96.0 U	93.0 U		
3-Nitroaniline	UG/KG 92.0 U	96.0 U	93.0 U		
4,6-Dinitro-2-Methylphenol	UG/KG 92.0 U	96.0 U	93.0 U		
4-Bromophenyl phenyl ether	UG/KG 31.0 U	32.0 U	31.0 U		
4-Chloro-3-Methylphenol	UG/KG 31.0 U	32.0 U	31.0 U		
4-Chloroaniline	UG/KG 31.0 U	32.0 U	31.0 U		
4-Chlorophenyl Phenyl Ether	UG/KG 31.0 U	32.0 U	31.0 U		
4-Nitroaniline	UG/KG 31.0 U	32.0 U	31.0 U		
4-Nitrophenol	UG/KG 92.0 U	96.0 U	93.0 U		
Acenaphthene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	3.80 U
Acenaphthylene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	3.80 U
Anthracene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	3.80 U
Benzo(a)anthracene	UG/KG 3.80 U	5.70 J	3.80 U	3.70 U	9.30

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG				
2-Nitroaniline	UG/KG				
2-Nitrophenol	UG/KG				
3,3'-Dichlorobenzidine	UG/KG				
3-Nitroaniline	UG/KG				
4,6-Dinitro-2-Methylphenol	UG/KG				
4-Bromophenyl phenyl ether	UG/KG				
4-Chloro-3-Methylphenol	UG/KG				
4-Chloroaniline	UG/KG				
4-Chlorophenyl Phenyl Ether	UG/KG				
4-Nitroaniline	UG/KG				
4-Nitrophenol	UG/KG				
Acenaphthene	UG/KG	3.80 U	3.90 U	3.80 U	3.80 U
Acenaphthylene	UG/KG	3.80 U	3.90 U	3.80 U	3.80 U
Anthracene	UG/KG	3.80 U	3.90 U	3.80 U	3.80 U
Benzo(a)anthracene	UG/KG	6.00 J	3.90 U	3.80 U	3.80 U

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG			86.0 U	87.0 U
2-Nitroaniline	UG/KG			29.0 U	29.0 U
2-Nitrophenol	UG/KG			29.0 U	29.0 U
3,3'-Dichlorobenzidine	UG/KG			86.0 UJ	87.0 UJ
3-Nitroaniline	UG/KG			86.0 U	87.0 U
4,6-Dinitro-2-Methylphenol	UG/KG			86.0 UJ	87.0 UJ
4-Bromophenyl phenyl ether	UG/KG			29.0 U	29.0 U
4-Chloro-3-Methylphenol	UG/KG			29.0 U	29.0 U
4-Chloroaniline	UG/KG			29.0 U	29.0 U
4-Chlorophenyl Phenyl Ether	UG/KG			29.0 U	29.0 U
4-Nitroaniline	UG/KG			29.0 U	29.0 U
4-Nitrophenol	UG/KG			86.0 U	87.0 U
Acenaphthene	UG/KG	3.80 U	3.90 U	3.80 U	3.60 U
Acenaphthylene	UG/KG	3.80 U	3.90 U	3.80 U	3.60 U
Anthracene	UG/KG	3.80 U	3.90 U	3.80 U	3.60 U
Benzo(a)anthracene	UG/KG	3.80 U	3.90 U	3.80 U	13.0

Notes:

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UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG 90.0 U	90.0 U	91.0 U	89.0 U	87.0 U
2-Nitroaniline	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
2-Nitrophenol	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
3,3'-Dichlorobenzidine	UG/KG 90.0 UJ	90.0 UJ	91.0 R	89.0 R	87.0 R
3-Nitroaniline	UG/KG 90.0 U	90.0 U	91.0 U	89.0 U	87.0 U
4,6-Dinitro-2-Methylphenol	UG/KG 90.0 UJ	90.0 UJ	91.0 U	89.0 U	87.0 U
4-Bromophenyl phenyl ether	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
4-Chloro-3-Methylphenol	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
4-Chloroaniline	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
4-Chlorophenyl Phenyl Ether	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
4-Nitroaniline	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
4-Nitrophenol	UG/KG 90.0 U	90.0 U	91.0 U	89.0 U	87.0 U
Acenaphthene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Acenaphthylene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Anthracene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Benzo(a)anthracene	UG/KG 3.70 U	11.0	3.70 U	3.70 U	3.60 U

Notes:

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UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	4X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG 89.0 U	91.0 U	350 U		
2-Nitroaniline	UG/KG 30.0 U	31.0 U	120 U		
2-Nitrophenol	UG/KG 30.0 U	31.0 U	120 U		
3,3'-Dichlorobenzidine	UG/KG 89.0 R	91.0 R	350 R		
3-Nitroaniline	UG/KG 89.0 U	91.0 U	350 U		
4,6-Dinitro-2-Methylphenol	UG/KG 89.0 U	91.0 U	350 U		
4-Bromophenyl phenyl ether	UG/KG 30.0 U	31.0 U	120 U		
4-Chloro-3-Methylphenol	UG/KG 30.0 U	31.0 U	120 U		
4-Chloroaniline	UG/KG 30.0 U	31.0 U	120 U		
4-Chlorophenyl Phenyl Ether	UG/KG 30.0 U	31.0 U	120 U		
4-Nitroaniline	UG/KG 30.0 U	31.0 U	120 U		
4-Nitrophenol	UG/KG 89.0 U	91.0 U	350 U		
Acenaphthene	UG/KG 3.70 U	3.80 U	83.0	3.80 U	3.60 U
Acenaphthylene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Anthracene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Benzo(a)anthracene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U

Notes:

J = Detected, Estimated

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U = Compound was Not Detected

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG	90.0 U			
2-Nitroaniline	UG/KG	30.0 U			
2-Nitrophenol	UG/KG	30.0 U			
3,3'-Dichlorobenzidine	UG/KG	90.0 UJ			
3-Nitroaniline	UG/KG	90.0 U			
4,6-Dinitro-2-Methylphenol	UG/KG	90.0 UJ			
4-Bromophenyl phenyl ether	UG/KG	30.0 U			
4-Chloro-3-Methylphenol	UG/KG	30.0 U			
4-Chloroaniline	UG/KG	30.0 U			
4-Chlorophenyl Phenyl Ether	UG/KG	30.0 U			
4-Nitroaniline	UG/KG	30.0 UJ			
4-Nitrophenol	UG/KG	90.0 U			
Acenaphthene	UG/KG	3.60 U	3.70 U	3.60 U	3.90 U
Acenaphthylene	UG/KG	3.60 U	3.70 U	3.60 U	3.90 U
Anthracene	UG/KG	3.60 U	3.70 U	3.60 U	3.90 U
Benzo(a)anthracene	UG/KG	11.0	3.70 U	3.60 U	3.90 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG				
2-Nitroaniline	UG/KG				
2-Nitrophenol	UG/KG				
3,3'-Dichlorobenzidine	UG/KG				
3-Nitroaniline	UG/KG				
4,6-Dinitro-2-Methylphenol	UG/KG				
4-Bromophenyl phenyl ether	UG/KG				
4-Chloro-3-Methylphenol	UG/KG				
4-Chloroaniline	UG/KG				
4-Chlorophenyl Phenyl Ether	UG/KG				
4-Nitroaniline	UG/KG				
4-Nitrophenol	UG/KG				
Acenaphthene	UG/KG	3.90 U	3.50 UJ	3.60 UJ	3.60 UJ
Acenaphthylene	UG/KG	3.90 U	3.50 UJ	3.60 UJ	3.60 UJ
Anthracene	UG/KG	3.90 U	3.50 UJ	3.60 UJ	3.60 UJ
Benzo(a)anthracene	UG/KG	3.90 U	3.50 UJ	8.30 J	3.60 UJ

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3
Field Sample ID:	072SB-0026-0001-SO	072SB-0026-0002-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO
Lab Sample ID:	240-18441-11	240-18441-17	240-18441-12	240-18441-13	240-18441-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG	83.0 U	83.0 U	84.0 UJ	83.0 U
2-Nitroaniline	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
2-Nitrophenol	UG/KG	28.0 U	28.0 U	28.0 UJ	28.0 U
3,3'-Dichlorobenzidine	UG/KG	83.0 UJ	83.0 UJ	84.0 UJ	83.0 UJ
3-Nitroaniline	UG/KG	83.0 UJ	83.0 U	84.0 UJ	83.0 U
4,6-Dinitro-2-Methylphenol	UG/KG	83.0 U	83.0 U	84.0 UJ	83.0 U
4-Bromophenyl phenyl ether	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
4-Chloro-3-Methylphenol	UG/KG	28.0 U	28.0 U	28.0 UJ	28.0 U
4-Chloroaniline	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
4-Chlorophenyl Phenyl Ether	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
4-Nitroaniline	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
4-Nitrophenol	UG/KG	83.0 U	83.0 U	84.0 UJ	83.0 U
Acenaphthene	UG/KG	3.40 UJ	3.40 U	3.40 UJ	3.40 U
Acenaphthylene	UG/KG	3.40 UJ	3.40 U	3.40 UJ	3.40 U
Anthracene	UG/KG	3.40 UJ	3.40 U	3.40 UJ	3.40 U
Benzo(a)anthracene	UG/KG	15.0 J	4.40 J	11.0 J	7.00

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB4	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1
Field Sample ID:	072SB-0030-0001-SO	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO
Lab Sample ID:	240-18441-15	240-18441-16	240-18441-17	240-18441-1	240-18441-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG 82.0 U	84.0 U	83.0 UJ		
2-Nitroaniline	UG/KG 28.0 U	28.0 U	28.0 UJ		
2-Nitrophenol	UG/KG 28.0 U	28.0 U	28.0 UJ		
3,3'-Dichlorobenzidine	UG/KG 82.0 UJ	84.0 UJ	83.0 UJ		
3-Nitroaniline	UG/KG 82.0 U	84.0 U	83.0 UJ		
4,6-Dinitro-2-Methylphenol	UG/KG 82.0 U	84.0 U	83.0 UJ		
4-Bromophenyl phenyl ether	UG/KG 28.0 U	28.0 U	28.0 UJ		
4-Chloro-3-Methylphenol	UG/KG 28.0 U	28.0 U	28.0 UJ		
4-Chloroaniline	UG/KG 28.0 U	28.0 U	28.0 UJ		
4-Chlorophenyl Phenyl Ether	UG/KG 28.0 U	28.0 U	28.0 UJ		
4-Nitroaniline	UG/KG 28.0 U	28.0 U	28.0 UJ		
4-Nitrophenol	UG/KG 82.0 U	84.0 U	83.0 UJ		
Acenaphthene	UG/KG 3.40 U	3.50 U	5.10 J	3.70 U	3.60 U
Acenaphthylene	UG/KG 3.40 U	3.50 U	3.70 J	3.70 U	3.60 U
Anthracene	UG/KG 3.40 U	3.50 U	7.10 J	3.70 U	3.60 U
Benzo(a)anthracene	UG/KG 6.80	7.00	3.40 UJ	3.70 U	3.60 U

Notes:

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UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB2	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1
Field Sample ID:	072SB-0008-0001-SO	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO
Lab Sample ID:	240-18441-2	240-18441-3	240-18297-9	240-18297-10	240-18297-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG				
2-Nitroaniline	UG/KG				
2-Nitrophenol	UG/KG				
3,3'-Dichlorobenzidine	UG/KG				
3-Nitroaniline	UG/KG				
4,6-Dinitro-2-Methylphenol	UG/KG				
4-Bromophenyl phenyl ether	UG/KG				
4-Chloro-3-Methylphenol	UG/KG				
4-Chloroaniline	UG/KG				
4-Chlorophenyl Phenyl Ether	UG/KG				
4-Nitroaniline	UG/KG				
4-Nitrophenol	UG/KG				
Acenaphthene	UG/KG	3.60 U	3.60 U	4.00 U	3.90 U
Acenaphthylene	UG/KG	3.60 U	3.60 U	4.00 U	3.90 U
Anthracene	UG/KG	3.60 U	3.60 U	4.00 U	3.90 U
Benzo(a)anthracene	UG/KG	3.60 U	3.60 U	4.00 U	3.90 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3
Field Sample ID:	072SB-0003-0001-SO	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO
Lab Sample ID:	240-18297-11	240-18297-12	240-18581-7	240-18581-8	240-18581-9
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG	94.0 U			
2-Nitroaniline	UG/KG	32.0 U			
2-Nitrophenol	UG/KG	32.0 U			
3,3'-Dichlorobenzidine	UG/KG	94.0 UJ			
3-Nitroaniline	UG/KG	94.0 U			
4,6-Dinitro-2-Methylphenol	UG/KG	94.0 UJ			
4-Bromophenyl phenyl ether	UG/KG	32.0 U			
4-Chloro-3-Methylphenol	UG/KG	32.0 U			
4-Chloroaniline	UG/KG	32.0 U			
4-Chlorophenyl Phenyl Ether	UG/KG	32.0 U			
4-Nitroaniline	UG/KG	32.0 UJ			
4-Nitrophenol	UG/KG	94.0 U			
Acenaphthene	UG/KG	3.90 U	3.80 U	3.80 U	3.70 U
Acenaphthylene	UG/KG	3.90 U	3.80 U	3.80 U	3.70 U
Anthracene	UG/KG	3.90 U	3.80 U	3.80 U	3.70 U
Benzo(a)anthracene	UG/KG	3.90 U	3.80 U	3.80 U	3.70 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB4	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3
Field Sample ID:	072SB-0059-0001-SO	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO
Lab Sample ID:	240-18581-10	240-18581-11	240-18703-8	240-18703-9	240-18703-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:	Field Duplicate				
Analysis Information:	1X	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG		94.0 U	92.0 U	92.0 U
2-Nitroaniline	UG/KG		32.0 U	31.0 U	31.0 U
2-Nitrophenol	UG/KG		32.0 U	31.0 U	31.0 U
3,3'-Dichlorobenzidine	UG/KG		94.0 UJ	92.0 UJ	92.0 UJ
3-Nitroaniline	UG/KG		94.0 U	92.0 U	92.0 U
4,6-Dinitro-2-Methylphenol	UG/KG		94.0 UJ	92.0 UJ	92.0 UJ
4-Bromophenyl phenyl ether	UG/KG		32.0 U	31.0 U	31.0 U
4-Chloro-3-Methylphenol	UG/KG		32.0 U	31.0 U	31.0 U
4-Chloroaniline	UG/KG		32.0 U	31.0 U	31.0 U
4-Chlorophenyl Phenyl Ether	UG/KG		32.0 U	31.0 U	31.0 U
4-Nitroaniline	UG/KG		32.0 U	31.0 U	31.0 U
4-Nitrophenol	UG/KG		94.0 U	92.0 U	92.0 U
Acenaphthene	UG/KG	3.70 U	3.70 U	3.90 U	3.80 U
Acenaphthylene	UG/KG	3.70 U	3.70 U	3.90 U	3.80 U
Anthracene	UG/KG	3.70 U	3.70 U	8.80	3.80 U
Benzo(a)anthracene	UG/KG	3.70 U	3.70 U	17.0	3.80 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0085-0001-SO	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-11	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
2-Methylphenol (o-Cresol)	UG/KG 94.0 U	92.0 U	90.0 U	
2-Nitroaniline	UG/KG 32.0 U	31.0 U	31.0 U	
2-Nitrophenol	UG/KG 32.0 U	31.0 U	31.0 U	
3,3'-Dichlorobenzidine	UG/KG 94.0 UJ	92.0 UJ	90.0 UJ	
3-Nitroaniline	UG/KG 94.0 U	92.0 U	90.0 U	
4,6-Dinitro-2-Methylphenol	UG/KG 94.0 UJ	92.0 UJ	90.0 UJ	
4-Bromophenyl phenyl ether	UG/KG 32.0 U	31.0 U	31.0 U	
4-Chloro-3-Methylphenol	UG/KG 32.0 U	31.0 U	31.0 U	
4-Chloroaniline	UG/KG 32.0 U	31.0 U	31.0 U	
4-Chlorophenyl Phenyl Ether	UG/KG 32.0 U	31.0 U	31.0 U	
4-Nitroaniline	UG/KG 32.0 U	31.0 U	31.0 U	
4-Nitrophenol	UG/KG 94.0 U	92.0 U	90.0 U	
Acenaphthene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Acenaphthylene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Anthracene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Benzo(a)anthracene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U

Notes:

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U = Compound was Not Detected

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.80 U	40.0 J	16.0 J	37.0	3.90 U
Benzo(b)fluoranthene	UG/KG 3.80 J	65.0 J	22.0 J	50.0	6.10 J
Benzo(g,h,i)perylene	UG/KG 3.80 U	34.0 J	20.0 J	32.0	3.90 U
Benzo(k)fluoranthene	UG/KG 3.80 U	22.0 J	8.90 J	21.0	3.90 U
Benzoic acid	UG/KG 390 R	400 R	410 R	440 R	390 R
Benzyl alcohol	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Benzyl butyl phthalate	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
bis(2-Chloroethoxy) Methane	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 3.80 U	3.90 U	4.10 U	4.30 U	3.90 U
bis(2-Chloroisopropyl) Ether	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
bis(2-Ethylhexyl) Phthalate	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Carbazole	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Chrysene	UG/KG 3.80 U	41.0 J	17.0 J	35.0	4.50 J
Cresols, m & p	UG/KG 93.0 U	95.0 U	98.0 U	100 U	94.0 U
Dibenz(a,h)anthracene	UG/KG 3.80 U	3.90 U	4.10 U	4.30 U	3.90 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.70 U	3.90 U	3.80 U	3.80 U	3.70 U
Benzo(b)fluoranthene	UG/KG 3.70 U	3.90 U	3.80 U	4.30 J	3.80 J
Benzo(g,h,i)perylene	UG/KG 3.70 U	3.90 U	3.80 U	3.80 U	3.70 U
Benzo(k)fluoranthene	UG/KG 3.70 U	3.90 U	3.80 U	3.80 U	3.70 U
Benzoic acid	UG/KG 370 R				
Benzyl alcohol	UG/KG 30.0 U				
Benzyl butyl phthalate	UG/KG 30.0 U				
bis(2-Chloroethoxy) Methane	UG/KG 30.0 U				
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 3.70 U				
bis(2-Chloroisopropyl) Ether	UG/KG 30.0 U				
bis(2-Ethylhexyl) Phthalate	UG/KG 31.0 J				
Carbazole	UG/KG 30.0 U				
Chrysene	UG/KG 3.70 U	3.90 U	6.80 J	3.80 U	3.70 U
Cresols, m & p	UG/KG 90.0 U				
Dibenz(a,h)anthracene	UG/KG 3.70 U	3.90 U	3.80 U	3.80 U	3.70 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.70 U	4.00 U	13.0	4.00 U	3.90 U
Benzo(b)fluoranthene	UG/KG 3.70 U	4.90 J	7.80	4.00 U	5.60 J
Benzo(g,h,i)perylene	UG/KG 3.70 U	11.0	17.0	4.00 U	3.90 U
Benzo(k)fluoranthene	UG/KG 3.70 U	4.00 U	3.80 U	4.00 U	3.90 U
Benzoic acid	UG/KG	400 R	380 R	400 R	400 R
Benzyl alcohol	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Benzyl butyl phthalate	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
bis(2-Chloroethoxy) Methane	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG	4.00 U	3.80 U	4.00 U	3.90 U
bis(2-Chloroisopropyl) Ether	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
bis(2-Ethylhexyl) Phthalate	UG/KG	43.0 J	30.0 J	25.0 J	27.0 J
Carbazole	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Chrysene	UG/KG 3.70 U	4.00 U	3.80 U	4.00 U	3.90 U
Cresols, m & p	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
Dibenz(a,h)anthracene	UG/KG 3.70 U	4.00 U	3.80 U	4.00 U	3.90 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	3.80 U
Benzo(b)fluoranthene	UG/KG 6.40 J	4.30 J	3.80 U	4.70 J	5.50 J
Benzo(g,h,i)perylene	UG/KG 3.80 U	4.00 U	3.80 U	4.20 J	3.80 U
Benzo(k)fluoranthene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	3.80 U
Benzoic acid	UG/KG 380 R	400 R	390 R		
Benzyl alcohol	UG/KG 31.0 U	32.0 U	31.0 U		
Benzyl butyl phthalate	UG/KG 31.0 U	32.0 U	31.0 U		
bis(2-Chloroethoxy) Methane	UG/KG 31.0 U	32.0 U	31.0 U		
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 3.80 U	4.00 U	3.80 U		
bis(2-Chloroisopropyl) Ether	UG/KG 31.0 U	32.0 U	31.0 U		
bis(2-Ethylhexyl) Phthalate	UG/KG 31.0 J	28.0 J	31.0 J		
Carbazole	UG/KG 31.0 U	32.0 U	31.0 U		
Chrysene	UG/KG 3.80 U	7.20 J	3.80 U	3.70 U	9.50
Cresols, m & p	UG/KG 92.0 U	96.0 U	93.0 U		
Dibenz(a,h)anthracene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	3.80 U

Notes:

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.80 U	3.90 U	3.80 U	3.90 U	3.80 U
Benzo(b)fluoranthene	UG/KG 3.80 U	3.90 U	5.40 J	4.50 J	3.80 U
Benzo(g,h,i)perylene	UG/KG 3.80 U	3.90 U	6.60 J	3.90 U	3.80 U
Benzo(k)fluoranthene	UG/KG 3.80 U	3.90 U	3.80 U	3.90 U	3.80 U
Benzoic acid	UG/KG				
Benzyl alcohol	UG/KG				
Benzyl butyl phthalate	UG/KG				
bis(2-Chloroethoxy) Methane	UG/KG				
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG				
bis(2-Chloroisopropyl) Ether	UG/KG				
bis(2-Ethylhexyl) Phthalate	UG/KG				
Carbazole	UG/KG				
Chrysene	UG/KG 6.90 J	3.90 U	3.80 U	3.90 U	3.80 U
Cresols, m & p	UG/KG				
Dibenz(a,h)anthracene	UG/KG 3.80 U	3.90 U	3.80 U	3.90 U	3.80 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.80 U	3.90 U	3.80 U	3.60 U	3.60 U
Benzo(b)fluoranthene	UG/KG 3.80 U	3.90 U	3.80 U	9.30	3.60 U
Benzo(g,h,i)perylene	UG/KG 3.80 U	3.90 U	3.80 U	3.60 U	3.60 U
Benzo(k)fluoranthene	UG/KG 3.80 U	3.90 U	3.80 U	3.60 J	3.60 U
Benzoic acid	UG/KG			360 R	360 R
Benzyl alcohol	UG/KG			29.0 U	29.0 U
Benzyl butyl phthalate	UG/KG			29.0 U	29.0 U
bis(2-Chloroethoxy) Methane	UG/KG			29.0 U	29.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG			3.60 U	3.60 U
bis(2-Chloroisopropyl) Ether	UG/KG			29.0 U	29.0 U
bis(2-Ethylhexyl) Phthalate	UG/KG			29.0 U	29.0 U
Carbazole	UG/KG			29.0 U	29.0 U
Chrysene	UG/KG 3.80 U	3.90 U	3.80 U	5.50 J	3.60 U
Cresols, m & p	UG/KG			86.0 U	87.0 U
Dibenz(a,h)anthracene	UG/KG 3.80 U	3.90 U	3.80 U	3.60 U	3.60 U

Notes:

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ID = Identification

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Benzo(b)fluoranthene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Benzo(g,h,i)perylene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Benzo(k)fluoranthene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Benzoic acid	UG/KG 370 R	370 R	380 R	370 R	360 R
Benzyl alcohol	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Benzyl butyl phthalate	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
bis(2-Chloroethoxy) Methane	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
bis(2-Chloroisopropyl) Ether	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
bis(2-Ethylhexyl) Phthalate	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Carbazole	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Chrysene	UG/KG 3.70 U	4.00 J	3.70 U	3.70 U	3.60 U
Cresols, m & p	UG/KG 90.0 U	90.0 U	91.0 U	89.0 U	87.0 U
Dibenz(a,h)anthracene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	4X	1X	1X
Benzo(a)pyrene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Benzo(b)fluoranthene	UG/KG 6.10 J	3.80 U	15.0 U	3.80 U	4.40 J
Benzo(g,h,i)perylene	UG/KG 6.90 J	3.80 U	15.0 U	3.80 U	3.60 U
Benzo(k)fluoranthene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Benzoic acid	UG/KG 370 R	380 R	1500 R		
Benzyl alcohol	UG/KG 30.0 U	31.0 U	120 U		
Benzyl butyl phthalate	UG/KG 30.0 U	31.0 U	120 U		
bis(2-Chloroethoxy) Methane	UG/KG 30.0 U	31.0 U	120 U		
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 3.70 U	3.80 U	15.0 U		
bis(2-Chloroisopropyl) Ether	UG/KG 30.0 U	31.0 U	120 U		
bis(2-Ethylhexyl) Phthalate	UG/KG 30.0 U	31.0 U	120 U		
Carbazole	UG/KG 30.0 U	31.0 U	120 U		
Chrysene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Cresols, m & p	UG/KG 89.0 U	91.0 U	350 U		
Dibenz(a,h)anthracene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.60 U	3.70 U	3.70 U	3.60 U	3.90 U
Benzo(b)fluoranthene	UG/KG 29.0	6.70 J	6.90 J	4.90 J	6.70 J
Benzo(g,h,i)perylene	UG/KG 10.0	3.70 U	3.70 U	3.60 U	3.90 U
Benzo(k)fluoranthene	UG/KG 10.0	3.70 U	3.70 U	3.60 U	3.90 U
Benzoic acid	UG/KG	380 U			
Benzyl alcohol	UG/KG	30.0 U			
Benzyl butyl phthalate	UG/KG	30.0 U			
bis(2-Chloroethoxy) Methane	UG/KG	30.0 U			
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG	3.70 U			
bis(2-Chloroisopropyl) Ether	UG/KG	30.0 U			
bis(2-Ethylhexyl) Phthalate	UG/KG	30.0 U			
Carbazole	UG/KG	30.0 U			
Chrysene	UG/KG 12.0	3.70 U	3.70 U	3.60 U	3.90 U
Cresols, m & p	UG/KG	90.0 U			
Dibenz(a,h)anthracene	UG/KG 3.60 U	3.70 U	3.70 U	3.60 U	3.90 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.90 U	3.50 UJ	3.60 UJ	3.60 UJ	3.70 U
Benzo(b)fluoranthene	UG/KG 6.20 J	5.80 J	13.0 J	9.40 J	7.20 J
Benzo(g,h,i)perylene	UG/KG 3.90 U	3.50 UJ	3.60 UJ	3.60 UJ	3.70 U
Benzo(k)fluoranthene	UG/KG 3.90 U	6.20 J	6.90 J	6.10 J	3.70 U
Benzoic acid	UG/KG				
Benzyl alcohol	UG/KG				
Benzyl butyl phthalate	UG/KG				
bis(2-Chloroethoxy) Methane	UG/KG				
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG				
bis(2-Chloroisopropyl) Ether	UG/KG				
bis(2-Ethylhexyl) Phthalate	UG/KG				
Carbazole	UG/KG				
Chrysene	UG/KG 3.90 U	3.50 UJ	5.60 J	3.60 UJ	3.70 U
Cresols, m & p	UG/KG				
Dibenz(a,h)anthracene	UG/KG 3.90 U	3.50 UJ	3.60 UJ	3.60 UJ	3.70 U

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3
Field Sample ID:	072SB-0026-0001-SO	072SB-0026-0002-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO
Lab Sample ID:	240-18441-11	240-18441-17	240-18441-12	240-18441-13	240-18441-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG	18.0 J	3.40 UJ	11.0 J	25.0
Benzo(b)fluoranthene	UG/KG	16.0 J	15.0	13.0 J	12.0
Benzo(g,h,i)perylene	UG/KG	140 J	42.0 J	84.0 J	140
Benzo(k)fluoranthene	UG/KG	5.80 J	3.40 U	4.80 J	4.40 J
Benzoic acid	UG/KG	340 U	350 U	350 UJ	340 U
Benzyl alcohol	UG/KG	28.0 U	28.0 U	28.0 UJ	28.0 U
Benzyl butyl phthalate	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
bis(2-Chloroethoxy) Methane	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG	3.40 UJ	3.40 U	3.40 UJ	3.40 U
bis(2-Chloroisopropyl) Ether	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
bis(2-Ethylhexyl) Phthalate	UG/KG	28.0 UJ	25.0 J	28.0 UJ	22.0 J
Carbazole	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
Chrysene	UG/KG	9.10 J	9.10	7.70 J	10.0
Cresols, m & p	UG/KG	83.0 U	83.0 U	84.0 UJ	83.0 U
Dibenz(a,h)anthracene	UG/KG	3.40 UJ	3.40 U	3.40 UJ	3.40 U

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB4	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1
Field Sample ID:	072SB-0030-0001-SO	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO
Lab Sample ID:	240-18441-15	240-18441-16	240-18441-17	240-18441-1	240-18441-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 20.0	26.0	22.0 J	3.70 U	3.60 U
Benzo(b)fluoranthene	UG/KG 12.0	13.0	21.0 J	16.0	16.0
Benzo(g,h,i)perylene	UG/KG 98.0	150	130 J	3.70 U	3.60 U
Benzo(k)fluoranthene	UG/KG 5.30 J	6.10 J	7.90 J	7.30 J	5.00 J
Benzoic acid	UG/KG 340 U	350 U	350 UJ		
Benzyl alcohol	UG/KG 28.0 U	28.0 U	28.0 UJ		
Benzyl butyl phthalate	UG/KG 28.0 U	28.0 U	28.0 UJ		
bis(2-Chloroethoxy) Methane	UG/KG 28.0 U	28.0 U	28.0 UJ		
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 3.40 U	3.50 U	3.40 UJ		
bis(2-Chloroisopropyl) Ether	UG/KG 28.0 U	28.0 U	28.0 UJ		
bis(2-Ethylhexyl) Phthalate	UG/KG 20.0 J	22.0 J	24.0 J		
Carbazole	UG/KG 28.0 U	28.0 U	28.0 UJ		
Chrysene	UG/KG 10.0	10.0	3.40 UJ	3.70 U	3.60 U
Cresols, m & p	UG/KG 82.0 U	84.0 U	83.0 UJ		
Dibenz(a,h)anthracene	UG/KG 16.0	20.0	11.0 J	3.70 U	3.60 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB2	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1
Field Sample ID:	072SB-0008-0001-SO	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO
Lab Sample ID:	240-18441-2	240-18441-3	240-18297-9	240-18297-10	240-18297-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.60 U	3.60 U	4.00 U	3.90 U	3.90 U
Benzo(b)fluoranthene	UG/KG 8.10	7.00 J	4.00 U	3.90 U	3.90 U
Benzo(g,h,i)perylene	UG/KG 3.60 U	3.60 U	4.00 U	3.90 U	3.90 U
Benzo(k)fluoranthene	UG/KG 3.60 U	3.60 U	4.00 U	3.90 U	3.90 U
Benzoic acid	UG/KG				
Benzyl alcohol	UG/KG				
Benzyl butyl phthalate	UG/KG				
bis(2-Chloroethoxy) Methane	UG/KG				
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG				
bis(2-Chloroisopropyl) Ether	UG/KG				
bis(2-Ethylhexyl) Phthalate	UG/KG				
Carbazole	UG/KG				
Chrysene	UG/KG 3.60 U	3.60 U	4.00 U	3.90 U	3.90 U
Cresols, m & p	UG/KG				
Dibenz(a,h)anthracene	UG/KG 3.60 U	3.60 U	4.00 U	3.90 U	3.90 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3
Field Sample ID:	072SB-0003-0001-SO	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO
Lab Sample ID:	240-18297-11	240-18297-12	240-18581-7	240-18581-8	240-18581-9
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.90 U	3.80 U	3.80 U	3.80 U	3.70 U
Benzo(b)fluoranthene	UG/KG 3.90 U	3.80 U	3.80 U	3.80 U	3.70 U
Benzo(g,h,i)perylene	UG/KG 3.90 U	3.80 U	3.80 U	3.80 U	3.70 U
Benzo(k)fluoranthene	UG/KG 3.90 U	3.80 U	3.80 U	3.80 U	3.70 U
Benzoic acid	UG/KG 390 U				
Benzyl alcohol	UG/KG 32.0 U				
Benzyl butyl phthalate	UG/KG 32.0 U				
bis(2-Chloroethoxy) Methane	UG/KG 32.0 U				
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 3.90 U				
bis(2-Chloroisopropyl) Ether	UG/KG 32.0 U				
bis(2-Ethylhexyl) Phthalate	UG/KG 32.0 U				
Carbazole	UG/KG 32.0 U				
Chrysene	UG/KG 3.90 U	3.80 U	3.80 U	3.80 U	3.70 U
Cresols, m & p	UG/KG 94.0 U				
Dibenz(a,h)anthracene	UG/KG 3.90 U	3.80 U	3.80 U	3.80 U	3.70 U

Notes:

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U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB4	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3
Field Sample ID:	072SB-0059-0001-SO	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO
Lab Sample ID:	240-18581-10	240-18581-11	240-18703-8	240-18703-9	240-18703-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:	Field Duplicate				
Analysis Information:	1X	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.70 U	3.70 U	9.60	3.80 U	3.80 U
Benzo(b)fluoranthene	UG/KG 3.70 U	3.70 U	13.0	3.80 U	3.80 U
Benzo(g,h,i)perylene	UG/KG 3.70 U	3.70 U	17.0	3.80 U	3.80 U
Benzo(k)fluoranthene	UG/KG 3.70 U	3.70 U	5.60 J	3.80 U	3.80 U
Benzoic acid	UG/KG		390 R	380 R	380 R
Benzyl alcohol	UG/KG		32.0 U	31.0 U	31.0 U
Benzyl butyl phthalate	UG/KG		32.0 U	31.0 U	31.0 U
bis(2-Chloroethoxy) Methane	UG/KG		32.0 U	31.0 U	31.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG		3.90 U	3.80 U	3.80 U
bis(2-Chloroisopropyl) Ether	UG/KG		32.0 U	31.0 U	31.0 U
bis(2-Ethylhexyl) Phthalate	UG/KG		32.0 U	31.0 U	31.0 U
Carbazole	UG/KG		32.0 U	31.0 U	31.0 U
Chrysene	UG/KG 3.70 U	3.70 U	9.20	3.80 U	5.30 J
Cresols, m & p	UG/KG		94.0 U	92.0 U	92.0 U
Dibenz(a,h)anthracene	UG/KG 3.70 U	3.70 U	3.90 U	3.80 U	3.80 U

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0085-0001-SO	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-11	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
Benzo(a)pyrene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Benzo(b)fluoranthene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Benzo(g,h,i)perylene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Benzo(k)fluoranthene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Benzoic acid	UG/KG 390 R	380 R	380 R	
Benzyl alcohol	UG/KG 32.0 U	31.0 U	31.0 U	
Benzyl butyl phthalate	UG/KG 32.0 U	31.0 U	31.0 U	
bis(2-Chloroethoxy) Methane	UG/KG 32.0 U	31.0 U	31.0 U	
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 3.90 U	3.80 U	3.70 U	
bis(2-Chloroisopropyl) Ether	UG/KG 32.0 U	31.0 U	31.0 U	
bis(2-Ethylhexyl) Phthalate	UG/KG 32.0 U	31.0 U	31.0 U	
Carbazole	UG/KG 32.0 U	31.0 U	31.0 U	
Chrysene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Cresols, m & p	UG/KG 94.0 U	92.0 U	90.0 U	
Dibenz(a,h)anthracene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG 3.80 U	3.90 U	4.10 U	4.30 U	3.90 U
Diethyl Phthalate	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Dimethyl Phthalate	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Di-n-Butyl Phthalate	UG/KG 31.0 UJ	32.0 U	33.0 U	35.0 U	32.0 U
Di-n-Octylphthalate	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Fluoranthene	UG/KG 3.80 U	96.0 J	34.0 J	74.0	3.90 U
Fluorene	UG/KG 3.80 U	3.90 U	4.10 U	4.30 U	3.90 U
Hexachlorobenzene	UG/KG 3.80 U	3.90 U	4.10 U	4.30 U	3.90 U
Hexachlorobutadiene	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Hexachlorocyclopentadiene	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Hexachloroethane	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Indeno(1,2,3-c,d)pyrene	UG/KG 3.80 U	22.0 J	10.0 J	20.0	3.90 U
Isophorone	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Naphthalene	UG/KG 3.80 U	3.90 U	4.10 U	7.60 J	12.0
Nitrobenzene	UG/KG 3.80 U	3.90 U	4.10 U	4.30 U	3.90 U
n-Nitrosodi-n-propylamine	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U

Notes:

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG	3.70 U			
Diethyl Phthalate	UG/KG	30.0 U			
Dimethyl Phthalate	UG/KG	30.0 U			
Di-n-Butyl Phthalate	UG/KG	30.0 UJ			
Di-n-Octylphthalate	UG/KG	30.0 U			
Fluoranthene	UG/KG	3.70 U	3.90 U	3.80 U	3.80 U
Fluorene	UG/KG	3.70 U	3.90 U	3.80 U	3.80 U
Hexachlorobenzene	UG/KG	3.70 U			
Hexachlorobutadiene	UG/KG	30.0 U			
Hexachlorocyclopentadiene	UG/KG	30.0 U			
Hexachloroethane	UG/KG	30.0 U			
Indeno(1,2,3-c,d)pyrene	UG/KG	3.70 U	3.90 U	3.80 U	3.80 U
Isophorone	UG/KG	30.0 U			
Naphthalene	UG/KG	3.70 U	3.90 U	3.80 U	3.80 U
Nitrobenzene	UG/KG	3.70 U			
n-Nitrosodi-n-propylamine	UG/KG	30.0 U			

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG	8.40 J	20.0 J	4.80 J	3.90 U
Diethyl Phthalate	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Dimethyl Phthalate	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Di-n-Butyl Phthalate	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Di-n-Octylphthalate	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Fluoranthene	UG/KG 3.70 U	6.40 J	6.50 J	4.00 U	3.90 U
Fluorene	UG/KG 3.70 U	4.00 U	7.20 J	4.00 U	3.90 U
Hexachlorobenzene	UG/KG	4.00 U	3.80 U	4.00 U	3.90 U
Hexachlorobutadiene	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Hexachlorocyclopentadiene	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Hexachloroethane	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Indeno(1,2,3-c,d)pyrene	UG/KG 3.70 U	4.00 U	9.80	4.00 U	3.90 U
Isophorone	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Naphthalene	UG/KG 3.70 U	7.00 J	9.80	8.90	3.90 U
Nitrobenzene	UG/KG	4.00 U	3.80 U	4.00 U	3.90 U
n-Nitrosodi-n-propylamine	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U

Notes:

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UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG 3.80 U	4.00 U	3.80 U		
Diethyl Phthalate	UG/KG 31.0 U	32.0 U	31.0 U		
Dimethyl Phthalate	UG/KG 31.0 U	32.0 U	31.0 U		
Di-n-Butyl Phthalate	UG/KG 31.0 U	32.0 U	31.0 U		
Di-n-Octylphthalate	UG/KG 31.0 U	32.0 U	31.0 U		
Fluoranthene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	6.30 J
Fluorene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	3.80 U
Hexachlorobenzene	UG/KG 3.80 U	4.00 U	3.80 U		
Hexachlorobutadiene	UG/KG 31.0 U	32.0 U	31.0 U		
Hexachlorocyclopentadiene	UG/KG 31.0 U	32.0 U	31.0 U		
Hexachloroethane	UG/KG 31.0 U	32.0 U	31.0 U		
Indeno(1,2,3-c,d)pyrene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	3.80 U
Isophorone	UG/KG 31.0 U	32.0 U	31.0 U		
Naphthalene	UG/KG 3.80 U	5.20 J	3.80 U	4.20 J	3.80 U
Nitrobenzene	UG/KG 3.80 U	4.00 U	3.80 U		
n-Nitrosodi-n-propylamine	UG/KG 31.0 U	32.0 U	31.0 U		

Notes:

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1	
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO	
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13	
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0	
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012	
Field QC:						
Analysis Information:	1X	1X	1X	1X	1X	
Dibenzofuran	UG/KG					
Diethyl Phthalate	UG/KG					
Dimethyl Phthalate	UG/KG					
Di-n-Butyl Phthalate	UG/KG					
Di-n-Octylphthalate	UG/KG					
Fluoranthene	UG/KG	3.80 U	3.90 U	5.40 J	3.90 U	3.80 UJ
Fluorene	UG/KG	3.80 U	3.90 U	3.80 U	3.90 U	3.80 U
Hexachlorobenzene	UG/KG					
Hexachlorobutadiene	UG/KG					
Hexachlorocyclopentadiene	UG/KG					
Hexachloroethane	UG/KG					
Indeno(1,2,3-c,d)pyrene	UG/KG	3.80 U	3.90 U	3.80 U	3.90 U	3.80 U
Isophorone	UG/KG					
Naphthalene	UG/KG	3.80 U	3.90 U	3.80 U	3.90 U	3.80 U
Nitrobenzene	UG/KG					
n-Nitrosodi-n-propylamine	UG/KG					

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG			3.60 U	3.60 U
Diethyl Phthalate	UG/KG			29.0 U	29.0 U
Dimethyl Phthalate	UG/KG			29.0 U	29.0 U
Di-n-Butyl Phthalate	UG/KG			29.0 U	29.0 U
Di-n-Octylphthalate	UG/KG			29.0 U	29.0 U
Fluoranthene	UG/KG	3.80 UJ	3.90 UJ	3.80 UJ	12.0
Fluorene	UG/KG	3.80 U	3.90 U	3.80 U	5.60 J
Hexachlorobenzene	UG/KG			3.60 U	3.60 U
Hexachlorobutadiene	UG/KG			29.0 U	29.0 U
Hexachlorocyclopentadiene	UG/KG			29.0 U	29.0 U
Hexachloroethane	UG/KG			29.0 U	29.0 U
Indeno(1,2,3-c,d)pyrene	UG/KG	3.80 U	3.90 U	3.80 U	3.60 U
Isophorone	UG/KG			29.0 U	29.0 U
Naphthalene	UG/KG	3.80 U	3.90 U	3.80 U	3.60 U
Nitrobenzene	UG/KG			3.60 U	3.60 U
n-Nitrosodi-n-propylamine	UG/KG			29.0 U	29.0 U

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Diethyl Phthalate	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Dimethyl Phthalate	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Di-n-Butyl Phthalate	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Di-n-Octylphthalate	UG/KG 30.0 U	30.0 U	31.0 UJ	30.0 UJ	29.0 UJ
Fluoranthene	UG/KG 5.50 J	6.30 J	3.70 U	3.70 U	3.60 U
Fluorene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Hexachlorobenzene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Hexachlorobutadiene	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Hexachlorocyclopentadiene	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Hexachloroethane	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Indeno(1,2,3-c,d)pyrene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Isophorone	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Naphthalene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
Nitrobenzene	UG/KG 3.70 U	3.70 U	3.70 U	3.70 U	3.60 U
n-Nitrosodi-n-propylamine	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	4X	1X	1X
Dibenzofuran	UG/KG 3.70 U	3.80 U	100 J		
Diethyl Phthalate	UG/KG 30.0 U	31.0 U	120 U		
Dimethyl Phthalate	UG/KG 30.0 U	31.0 U	120 U		
Di-n-Butyl Phthalate	UG/KG 30.0 U	31.0 U	120 U		
Di-n-Octylphthalate	UG/KG 30.0 UJ	31.0 UJ	120 UJ		
Fluoranthene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Fluorene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Hexachlorobenzene	UG/KG 3.70 U	3.80 U	15.0 U		
Hexachlorobutadiene	UG/KG 30.0 U	31.0 U	120 U		
Hexachlorocyclopentadiene	UG/KG 30.0 U	31.0 U	120 U		
Hexachloroethane	UG/KG 30.0 U	31.0 U	120 U		
Indeno(1,2,3-c,d)pyrene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Isophorone	UG/KG 30.0 U	31.0 U	120 U		
Naphthalene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Nitrobenzene	UG/KG 3.70 U	3.80 U	15.0 U		
n-Nitrosodi-n-propylamine	UG/KG 30.0 U	31.0 U	120 U		

Notes:

J = Detected, Estimated

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5	
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO	
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20	
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0	
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012	
Field QC:						
Analysis Information:	1X	1X	1X	1X	1X	
Dibenzofuran	UG/KG	3.70 U				
Diethyl Phthalate	UG/KG	30.0 U				
Dimethyl Phthalate	UG/KG	30.0 U				
Di-n-Butyl Phthalate	UG/KG	30.0 U				
Di-n-Octylphthalate	UG/KG	30.0 U				
Fluoranthene	UG/KG	12.0	3.70 U	3.70 U	3.60 U	3.90 U
Fluorene	UG/KG	3.60 U	3.70 U	3.70 U	3.60 U	3.90 U
Hexachlorobenzene	UG/KG	3.70 U				
Hexachlorobutadiene	UG/KG	30.0 U				
Hexachlorocyclopentadiene	UG/KG	30.0 U				
Hexachloroethane	UG/KG	30.0 U				
Indeno(1,2,3-c,d)pyrene	UG/KG	3.60 U	3.70 U	3.70 U	3.60 U	3.90 U
Isophorone	UG/KG	30.0 U				
Naphthalene	UG/KG	5.00 J	5.40 J	6.70 J	4.10 J	3.90 U
Nitrobenzene	UG/KG	3.70 U				
n-Nitrosodi-n-propylamine	UG/KG	30.0 U				

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG				
Diethyl Phthalate	UG/KG				
Dimethyl Phthalate	UG/KG				
Di-n-Butyl Phthalate	UG/KG				
Di-n-Octylphthalate	UG/KG				
Fluoranthene	UG/KG	3.90 U	3.50 UJ	3.70 J	3.60 UJ
Fluorene	UG/KG	3.90 U	3.50 UJ	3.60 UJ	3.60 UJ
Hexachlorobenzene	UG/KG				
Hexachlorobutadiene	UG/KG				
Hexachlorocyclopentadiene	UG/KG				
Hexachloroethane	UG/KG				
Indeno(1,2,3-c,d)pyrene	UG/KG	3.90 U	3.50 UJ	3.60 UJ	3.60 UJ
Isophorone	UG/KG				
Naphthalene	UG/KG	3.90 U	3.50 UJ	4.20 J	3.60 UJ
Nitrobenzene	UG/KG				
n-Nitrosodi-n-propylamine	UG/KG				

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3
Field Sample ID:	072SB-0026-0001-SO	072SB-0026-0002-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO
Lab Sample ID:	240-18441-11	240-18441-17	240-18441-12	240-18441-13	240-18441-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG	16.0 J	8.70 J	14.0 J	15.0 J
Diethyl Phthalate	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
Dimethyl Phthalate	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
Di-n-Butyl Phthalate	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
Di-n-Octylphthalate	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
Fluoranthene	UG/KG	12.0 J	10.0	11.0 J	10.0
Fluorene	UG/KG	8.40 J	3.40 U	4.30 J	9.00
Hexachlorobenzene	UG/KG	3.40 UJ	3.40 U	3.40 UJ	3.40 U
Hexachlorobutadiene	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
Hexachlorocyclopentadiene	UG/KG	28.0 UJ	28.0 UJ	28.0 UJ	28.0 U
Hexachloroethane	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
Indeno(1,2,3-c,d)pyrene	UG/KG	17.0 J	12.0	13.0 J	23.0
Isophorone	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U
Naphthalene	UG/KG	29.0 J	14.0 J	27.0 J	36.0
Nitrobenzene	UG/KG	3.40 UJ	3.40 U	3.40 UJ	3.40 U
n-Nitrosodi-n-propylamine	UG/KG	28.0 UJ	28.0 U	28.0 UJ	28.0 U

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB4	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1
Field Sample ID:	072SB-0030-0001-SO	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO
Lab Sample ID:	240-18441-15	240-18441-16	240-18441-17	240-18441-1	240-18441-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG 14.0 J	16.0 J	20.0 J		
Diethyl Phthalate	UG/KG 28.0 U	28.0 U	28.0 UJ		
Dimethyl Phthalate	UG/KG 28.0 U	28.0 U	28.0 UJ		
Di-n-Butyl Phthalate	UG/KG 28.0 U	28.0 U	28.0 UJ		
Di-n-Octylphthalate	UG/KG 28.0 U	28.0 U	28.0 UJ		
Fluoranthene	UG/KG 12.0	12.0	20.0 J	3.70 U	3.60 U
Fluorene	UG/KG 5.20 J	7.60	11.0 J	3.70 U	3.60 U
Hexachlorobenzene	UG/KG 3.40 U	3.50 U	3.40 UJ		
Hexachlorobutadiene	UG/KG 28.0 U	28.0 U	28.0 UJ		
Hexachlorocyclopentadiene	UG/KG 28.0 U	28.0 U	28.0 UJ		
Hexachloroethane	UG/KG 28.0 U	28.0 U	28.0 UJ		
Indeno(1,2,3-c,d)pyrene	UG/KG 18.0	24.0	22.0 J	3.70 U	3.60 U
Isophorone	UG/KG 28.0 U	28.0 U	28.0 UJ		
Naphthalene	UG/KG 27.0	34.0	35.0 J	3.70 U	3.60 U
Nitrobenzene	UG/KG 3.40 U	3.50 U	3.40 UJ		
n-Nitrosodi-n-propylamine	UG/KG 28.0 U	28.0 U	28.0 UJ		

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB2	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1
Field Sample ID:	072SB-0008-0001-SO	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO
Lab Sample ID:	240-18441-2	240-18441-3	240-18297-9	240-18297-10	240-18297-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG				
Diethyl Phthalate	UG/KG				
Dimethyl Phthalate	UG/KG				
Di-n-Butyl Phthalate	UG/KG				
Di-n-Octylphthalate	UG/KG				
Fluoranthene	UG/KG	3.60 U	3.60 U	4.00 U	3.90 U
Fluorene	UG/KG	3.60 U	3.60 U	4.00 U	3.90 U
Hexachlorobenzene	UG/KG				
Hexachlorobutadiene	UG/KG				
Hexachlorocyclopentadiene	UG/KG				
Hexachloroethane	UG/KG				
Indeno(1,2,3-c,d)pyrene	UG/KG	3.60 U	3.60 U	4.00 U	3.90 U
Isophorone	UG/KG				
Naphthalene	UG/KG	3.60 U	3.60 U	8.90	3.90 U
Nitrobenzene	UG/KG				
n-Nitrosodi-n-propylamine	UG/KG				

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3
Field Sample ID:	072SB-0003-0001-SO	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO
Lab Sample ID:	240-18297-11	240-18297-12	240-18581-7	240-18581-8	240-18581-9
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG	3.90 U			
Diethyl Phthalate	UG/KG	32.0 U			
Dimethyl Phthalate	UG/KG	32.0 U			
Di-n-Butyl Phthalate	UG/KG	32.0 U			
Di-n-Octylphthalate	UG/KG	32.0 U			
Fluoranthene	UG/KG	3.90 U	3.80 U	3.80 UJ	3.70 UJ
Fluorene	UG/KG	3.90 U	3.80 U	3.80 U	3.70 U
Hexachlorobenzene	UG/KG	3.90 U			
Hexachlorobutadiene	UG/KG	32.0 U			
Hexachlorocyclopentadiene	UG/KG	32.0 U			
Hexachloroethane	UG/KG	32.0 U			
Indeno(1,2,3-c,d)pyrene	UG/KG	3.90 U	3.80 U	3.80 U	3.70 U
Isophorone	UG/KG	32.0 U			
Naphthalene	UG/KG	3.90 U	3.80 U	3.80 U	3.70 U
Nitrobenzene	UG/KG	3.90 U			
n-Nitrosodi-n-propylamine	UG/KG	32.0 U			

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB4	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3
Field Sample ID:	072SB-0059-0001-SO	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO
Lab Sample ID:	240-18581-10	240-18581-11	240-18703-8	240-18703-9	240-18703-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:	Field Duplicate				
Analysis Information:	1X	1X	1X	1X	1X
Dibenzofuran	UG/KG		12.0 J	3.80 U	3.80 U
Diethyl Phthalate	UG/KG		32.0 U	31.0 U	31.0 U
Dimethyl Phthalate	UG/KG		32.0 U	31.0 U	31.0 U
Di-n-Butyl Phthalate	UG/KG		32.0 U	31.0 U	31.0 U
Di-n-Octylphthalate	UG/KG		32.0 U	31.0 U	31.0 U
Fluoranthene	UG/KG 3.70 UJ	3.70 UJ	15.0	3.80 U	3.80 U
Fluorene	UG/KG 3.70 U	3.70 U	11.0	3.80 U	3.80 U
Hexachlorobenzene	UG/KG		3.90 U	3.80 U	3.80 U
Hexachlorobutadiene	UG/KG		32.0 U	31.0 U	31.0 U
Hexachlorocyclopentadiene	UG/KG		32.0 U	31.0 U	31.0 U
Hexachloroethane	UG/KG		32.0 U	31.0 U	31.0 U
Indeno(1,2,3-c,d)pyrene	UG/KG 3.70 U	3.70 U	7.60 J	3.80 U	3.80 U
Isophorone	UG/KG		32.0 U	31.0 U	31.0 U
Naphthalene	UG/KG 3.70 U	3.70 U	7.00 J	3.80 U	3.80 U
Nitrobenzene	UG/KG		3.90 U	3.80 U	3.80 U
n-Nitrosodi-n-propylamine	UG/KG		32.0 U	31.0 U	31.0 U

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0085-0001-SO	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-11	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
Dibenzofuran	UG/KG 3.90 U	3.80 U	3.70 U	
Diethyl Phthalate	UG/KG 32.0 U	31.0 U	31.0 U	
Dimethyl Phthalate	UG/KG 32.0 U	31.0 U	31.0 U	
Di-n-Butyl Phthalate	UG/KG 32.0 U	31.0 U	31.0 U	
Di-n-Octylphthalate	UG/KG 32.0 U	31.0 U	31.0 U	
Fluoranthene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Fluorene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Hexachlorobenzene	UG/KG 3.90 U	3.80 U	3.70 U	
Hexachlorobutadiene	UG/KG 32.0 U	31.0 U	31.0 U	
Hexachlorocyclopentadiene	UG/KG 32.0 U	31.0 U	31.0 U	
Hexachloroethane	UG/KG 32.0 U	31.0 U	31.0 U	
Indeno(1,2,3-c,d)pyrene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Isophorone	UG/KG 32.0 U	31.0 U	31.0 U	
Naphthalene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Nitrobenzene	UG/KG 3.90 U	3.80 U	3.70 U	
n-Nitrosodi-n-propylamine	UG/KG 32.0 U	31.0 U	31.0 U	

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-FS-01-SB2	72-FS-01-SB2	72-FS-01-SB3	72-FS-01-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0076-0001-SO	072SB-0077-0001-SO	072SB-0079-0001-SO	072SB-0080-0001-SO
Lab Sample ID:	240-18703-18	240-18703-19	240-18703-20	240-18703-21	240-18703-22
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		Field Duplicate
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Pentachlorophenol	UG/KG 93.0 U	95.0 U	98.0 U	100 U	94.0 U
Phenanthrene	UG/KG 3.80 U	47.0 J	21.0 J	32.0	3.90 U
Phenol	UG/KG 31.0 U	32.0 U	33.0 U	35.0 U	32.0 U
Pyrene	UG/KG 3.80 U	77.0	26.0	57.0	3.90 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-ASY-02-SB1	72-ASY-02-SB2	72-ASY-02-SB3	72-ASY-02-SB4
Field Sample ID:	072SB-0081-0001-SO	072SB-0043-0001-SO	072SB-0044-0001-SO	072SB-0045-0001-SO	072SB-0046-0001-SO
Lab Sample ID:	240-18703-23	240-18449-10	240-18449-11	240-18449-12	240-18449-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG 30.0 U				
Pentachlorophenol	UG/KG 90.0 U				
Phenanthrene	UG/KG 3.70 U	3.90 U	3.80 U	3.80 U	3.70 U
Phenol	UG/KG 30.0 U				
Pyrene	UG/KG 3.70 U	3.90 U	3.80 U	3.80 U	3.70 U

Notes:

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TAM0 = TestAmerica, Inc., North Canton, OH

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-02-SB5	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB1	72-ASY-03-SB2
Field Sample ID:	072SB-0047-0001-SO	072SB-0035-0001-SO	072SB-0036-0001-SO	072SB-0041-0001-SO	072SB-0037-0001-SO
Lab Sample ID:	240-18449-14	240-18449-2	240-18449-3	240-18449-8	240-18449-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Pentachlorophenol	UG/KG	96.0 U	92.0 U	96.0 U	95.0 U
Phenanthrene	UG/KG 3.70 U	13.0 J	32.0 J	10.0	3.90 U
Phenol	UG/KG	32.0 U	31.0 U	33.0 U	32.0 U
Pyrene	UG/KG 3.70 U	10.0	10.0	6.60 J	3.90 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-03-SB3	72-ASY-03-SB4	72-ASY-03-SB5	72-ASY-04-SB1	72-ASY-04-SB2
Field Sample ID:	072SB-0038-0001-SO	072SB-0039-0001-SO	072SB-0040-0001-SO	072SB-0049-0001-SO	072SB-0050-0001-SO
Lab Sample ID:	240-18449-5	240-18449-6	240-18449-7	240-18449-16	240-18449-17
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/5/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG 31.0 U	32.0 U	31.0 U		
Pentachlorophenol	UG/KG 92.0 U	96.0 U	93.0 U		
Phenanthrene	UG/KG 3.80 U	4.00 U	3.80 U	3.70 U	10.0
Phenol	UG/KG 31.0 U	32.0 U	31.0 U		
Pyrene	UG/KG 3.80 U	4.00 U	3.80 U	5.10 J	3.80 U

Notes:

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ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-ASY-05-SB1	72-ASY-05-SB2	72-ASY-05-SB3	72-ASY-05-SB4	72-SSP-08-SB1
Field Sample ID:	072SB-0051-0001-SO	072SB-0052-0001-SO	072SB-0053-0001-SO	072SB-0054-0001-SO	072SB-0070-0001-SO
Lab Sample ID:	240-18449-18	240-18449-19	240-18449-20	240-18449-21	240-18581-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/5/2012	12/5/2012	12/5/2012	12/5/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG				
Pentachlorophenol	UG/KG				
Phenanthrene	UG/KG 3.80 U	3.90 U	20.0	3.90 U	18.0
Phenol	UG/KG				
Pyrene	UG/KG 3.80 U	3.90 U	3.80 U	3.90 U	3.80 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-SSP-08-SB2	72-SSP-08-SB3	72-SSP-08-SB4	72-WTP-06-SB1	72-WTP-06-SB2
Field Sample ID:	072SB-0071-0001-SO	072SB-0072-0001-SO	072SB-0073-0001-SO	072SB-0087-0001-SO	072SB-0088-0001-SO
Lab Sample ID:	240-18581-14	240-18581-15	240-18581-16	240-18703-13	240-18703-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/7/2012	12/10/2012	12/10/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG			29.0 U	29.0 U
Pentachlorophenol	UG/KG			86.0 U	87.0 U
Phenanthrene	UG/KG	3.80 U	3.90 U	3.80 U	3.60 U
Phenol	UG/KG			29.0 U	29.0 U
Pyrene	UG/KG	3.80 U	3.90 U	3.80 U	10.0

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-WTP-06-SB3	72-WTP-06-SB4	72-BM-RV46-SB1	72-BM-RV46-SB1	72-BM-RV46-SB1
Field Sample ID:	072SB-0089-0001-SO	072SB-0090-0001-SO	072SB-0063-0001-SO	072SB-0064-0001-SO	072SB-0068-0001-SO
Lab Sample ID:	240-18703-15	240-18703-16	240-18544-1	240-18544-2	240-18544-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/6/2012	12/6/2012	12/6/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Pentachlorophenol	UG/KG 90.0 U	90.0 U	91.0 U	89.0 U	87.0 U
Phenanthrene	UG/KG 4.10 J	4.50 J	3.70 U	3.70 U	3.60 U
Phenol	UG/KG 30.0 U	30.0 U	31.0 U	30.0 U	29.0 U
Pyrene	UG/KG 3.90 J	5.00 J	3.70 U	3.70 U	3.60 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-BM-RV46-SB2	72-BM-RV46-SB3	72-BM-RV46-SB4	72-1026-R86-SB1	72-1026-R86-SB1
Field Sample ID:	072SB-0065-0001-SO	072SB-0066-0001-SO	072SB-0067-0001-SO	072SB-0012-0001-SO	072SB-0013-0001-SO
Lab Sample ID:	240-18544-3	240-18544-4	240-18544-5	240-18297-15	240-18297-16
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/6/2012	12/6/2012	12/6/2012	12/3/2012	12/3/2012
Field QC:					Field Duplicate
Analysis Information:	1X	1X	4X	1X	1X
n-Nitrosodiphenylamine	UG/KG 30.0 U	31.0 U	120 U		
Pentachlorophenol	UG/KG 89.0 U	91.0 U	350 U		
Phenanthrene	UG/KG 3.70 U	3.80 U	15.0 U	3.80 U	3.60 U
Phenol	UG/KG 30.0 U	31.0 U	120 U		
Pyrene	UG/KG 3.70 U	3.80 U	20.0 J	3.80 U	3.60 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB1	72-1026-R86-SB2	72-1026-R86-SB3	72-1026-R86-SB4	72-1026-R86-SB5
Field Sample ID:	072SB-0019-0001-SO	072SB-0014-0001-SO	072SB-0015-0001-SO	072SB-0016-0001-SO	072SB-0017-0001-SO
Lab Sample ID:	240-18297-22	240-18297-17	240-18297-18	240-18297-19	240-18297-20
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG	30.0 U			
Pentachlorophenol	UG/KG	90.0 U			
Phenanthrene	UG/KG	34.0	3.70 U	3.60 U	3.90 U
Phenol	UG/KG	30.0 U			
Pyrene	UG/KG	8.10	3.70 U	3.60 U	3.90 U

Notes:

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R86-SB6	72-1026-R87-SB1	72-1026-R87-SB1	72-1026-R87-SB2	72-1026-R87-SB3
Field Sample ID:	072SB-0018-0001-SO	072SB-0021-0001-SO	072SB-0024-0001-SO	072SB-0022-0001-SO	072SB-0023-0001-SO
Lab Sample ID:	240-18297-21	240-18441-6	240-18441-9	240-18441-7	240-18441-8
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG				
Pentachlorophenol	UG/KG				
Phenanthrene	UG/KG 3.90 U	3.50 UJ	7.20 J	3.60 UJ	3.70 U
Phenol	UG/KG				
Pyrene	UG/KG 3.90 U	3.50 UJ	5.20 J	3.60 UJ	3.70 U

Notes:

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QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB1	72-1026-R89-SB2	72-1026-R89-SB3
Field Sample ID:	072SB-0026-0001-SO	072SB-0026-0002-SO	072SB-0027-0001-SO	072SB-0028-0001-SO	072SB-0029-0001-SO
Lab Sample ID:	240-18441-11	240-18441-17	240-18441-12	240-18441-13	240-18441-14
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG 28.0 UJ		28.0 U	28.0 UJ	28.0 U
Pentachlorophenol	UG/KG 83.0 UJ		83.0 U	84.0 UJ	83.0 U
Phenanthrene	UG/KG 50.0 J		36.0	43.0 J	46.0
Phenol	UG/KG 28.0 U		28.0 U	28.0 UJ	28.0 U
Pyrene	UG/KG 16.0 J		7.10 J	16.0 J	14.0

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-R89-SB4	72-1026-R89-SB5	72-1026-R89-SB5	72-1026-RV4-SB1	72-1026-RV4-SB1
Field Sample ID:	072SB-0030-0001-SO	072SB-0031-0001-SO	072SB-0032-0001-SO	072SB-0007-0001-SO	072SB-0010-0001-SO
Lab Sample ID:	240-18441-15	240-18441-16	240-18441-17	240-18441-1	240-18441-4
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/4/2012	12/4/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG 28.0 U	28.0 U	28.0 UJ		
Pentachlorophenol	UG/KG 82.0 U	84.0 U	83.0 UJ		
Phenanthrene	UG/KG 48.0	54.0	57.0 J	5.60 J	4.40 J
Phenol	UG/KG 28.0 U	28.0 U	28.0 UJ		
Pyrene	UG/KG 14.0	16.0	22.0 J	3.70 U	7.10 J

Notes:

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1026-RV4-SB2	72-1026-RV4-SB3	72-1048-RV5-SB1	72-1048-RV5-SB1	72-1048-RV5-SB1
Field Sample ID:	072SB-0008-0001-SO	072SB-0009-0001-SO	072SB-0001-0001-SO	072SB-0002-0001-SO	072SB-0005-0001-SO
Lab Sample ID:	240-18441-2	240-18441-3	240-18297-9	240-18297-10	240-18297-13
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/4/2012	12/4/2012	12/3/2012	12/3/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG				
Pentachlorophenol	UG/KG				
Phenanthrene	UG/KG 3.60 U	3.60 U	4.00 U	3.90 U	3.90 U
Phenol	UG/KG				
Pyrene	UG/KG 3.60 U	3.60 U	4.00 U	3.90 U	3.90 U

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-1048-RV5-SB3	72-1103-R88-SB1	72-1103-R88-SB2	72-1103-R88-SB3
Field Sample ID:	072SB-0003-0001-SO	072SB-0004-0001-SO	072SB-0056-0001-SO	072SB-0057-0001-SO	072SB-0058-0001-SO
Lab Sample ID:	240-18297-11	240-18297-12	240-18581-7	240-18581-8	240-18581-9
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	12/7/2012	12/7/2012	12/7/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG 32.0 U				
Pentachlorophenol	UG/KG 94.0 U				
Phenanthrene	UG/KG 3.90 U	3.80 U	3.80 U	3.80 U	3.70 U
Phenol	UG/KG 32.0 U				
Pyrene	UG/KG 3.90 U	3.80 U	3.80 U	3.80 U	3.70 U

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1103-R88-SB4	72-1103-R88-SB5	72-2F11-R41-SB1	72-2F11-R41-SB2	72-2F11-R41-SB3
Field Sample ID:	072SB-0059-0001-SO	072SB-0060-0001-SO	072SB-0082-0001-SO	072SB-0083-0001-SO	072SB-0084-0001-SO
Lab Sample ID:	240-18581-10	240-18581-11	240-18703-8	240-18703-9	240-18703-10
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/7/2012	12/7/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:			Field Duplicate		
Analysis Information:	1X	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG		32.0 U	31.0 U	31.0 U
Pentachlorophenol	UG/KG		94.0 U	92.0 U	92.0 U
Phenanthrene	UG/KG 3.70 U	3.70 U	20.0	3.80 U	8.90
Phenol	UG/KG		32.0 U	31.0 U	31.0 U
Pyrene	UG/KG 3.70 U	3.70 U	22.0	3.80 U	3.80 U

Notes:

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UJ = Compound was not detected and reporting limit is estimated

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QC = Quality Control

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MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB4	72-2F11-R41-SB4	72-2F11-R41-SB5	72-2F11-R41-SB5
Field Sample ID:	072SB-0085-0001-SO	072SB-0086-0001-SO	072SB-0091-0001-SO	072SB-0092-0001-SO
Lab Sample ID:	240-18703-11	240-18703-12	240-18703-17	240-18703-1
Lab Name:	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/10/2012	12/10/2012	12/10/2012
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
n-Nitrosodiphenylamine	UG/KG 32.0 U	31.0 U	31.0 U	
Pentachlorophenol	UG/KG 94.0 U	92.0 U	90.0 U	
Phenanthrene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U
Phenol	UG/KG 32.0 U	31.0 U	31.0 U	
Pyrene	UG/KG 3.90 U	3.80 U	3.70 U	3.70 U

Notes:

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UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-ASY-03-SB4	72-BM-RV46-SB2	72-1026-R86-SB2	72-1026-R89-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0039-0001-SO	072SB-0065-0001-SO	072SB-0014-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18703-18	240-18449-6	240-18544-3	240-18297-17	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/6/2012	12/3/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Nitroaromatics and Nitramines by HPLC

	Units					
1,3,5-Trinitrobenzene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
1,3-Dinitrobenzene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
2,4,6-Trinitrotoluene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
2,4-Dinitrotoluene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
2,6-Dinitrotoluene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
2-Amino-4,6-dinitrotoluene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
2-Nitrotoluene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
3-Nitrotoluene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
4-Amino-2,6-Dinitrotoluene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
4-Nitrotoluene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
Nitrobenzene	MG/KG	0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
Nitroglycerin	MG/KG	0.250 U	0.240 U	0.250 U	0.250 U	0.250 U
NITROGUANIDINE	MG/KG	0.0400 U	0.0390 U	0.0390 U	0.0400 U	0.0390 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-2F11-R41-SB1
Field Sample ID:	072SB-0003-0001-SO	072SB-0082-0001-SO
Lab Sample ID:	240-18297-11	240-18703-8
Lab Name:	TAM0	TAM0
Sample Date:	12/3/2012	12/10/2012
Field QC:		Field Duplicate
Analysis Information:	1X	1X

Nitroaromatics and Nitramines by HPLC

	Units		
1,3,5-Trinitrobenzene	MG/KG	0.0480 U	0.0500 U
1,3-Dinitrobenzene	MG/KG	0.0480 U	0.0500 U
2,4,6-Trinitrotoluene	MG/KG	0.0480 U	0.0500 U
2,4-Dinitrotoluene	MG/KG	0.0480 U	0.0500 U
2,6-Dinitrotoluene	MG/KG	0.0480 U	0.0500 U
2-Amino-4,6-dinitrotoluene	MG/KG	0.0480 U	0.0500 U
2-Nitrotoluene	MG/KG	0.0480 U	0.0500 U
3-Nitrotoluene	MG/KG	0.0480 U	0.0500 U
4-Amino-2,6-Dinitrotoluene	MG/KG	0.0480 U	0.0500 U
4-Nitrotoluene	MG/KG	0.0480 U	0.0500 U
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	MG/KG	0.0480 U	0.0500 U
Nitrobenzene	MG/KG	0.0480 U	0.0500 U
Nitroglycerin	MG/KG	0.240 U	0.250 U
NITROGUANIDINE	MG/KG	0.0390 U	0.0390 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB1	72-ASY-03-SB4	72-BM-RV46-SB2	72-1026-R86-SB2	72-1026-R89-SB4
Field Sample ID:	072SB-0075-0001-SO	072SB-0039-0001-SO	072SB-0065-0001-SO	072SB-0014-0001-SO	072SB-0030-0001-SO
Lab Sample ID:	240-18703-18	240-18449-6	240-18544-3	240-18297-17	240-18441-15
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/10/2012	12/5/2012	12/6/2012	12/3/2012	12/4/2012
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	MG/KG 0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U
Pentaerythritol Tetranitrate	MG/KG 0.250 U	0.240 U	0.250 U	0.250 U	0.250 U
Tetryl	MG/KG 0.0500 U	0.0480 U	0.0500 U	0.0490 U	0.0490 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:	72-1048-RV5-SB2	72-2F11-R41-SB1
Field Sample ID:	072SB-0003-0001-SO	072SB-0082-0001-SO
Lab Sample ID:	240-18297-11	240-18703-8
Lab Name:	TAM0	TAM0
Sample Date:	12/3/2012	12/10/2012
Field QC:		Field Duplicate
Analysis Information:	1X	1X
Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	MG/KG 0.0480 U	0.0500 U
Pentaerythritol Tetranitrate	MG/KG 0.240 U	0.250 U
Tetryl	MG/KG 0.0480 U	0.0500 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:

Field Sample ID: 072SB-0078-0001-SO

Lab Sample ID: 240-18544-18

Lab Name: TAM0

Sample Date: 12/6/2012

Field QC:

Analysis Information: 1X

Volatile Organic Compounds by Capillary GC/MS Units

Benzene	UG/KG	0.530 U
Ethylbenzene	UG/KG	0.530 U
tert-Butyl Methyl Ether (MTBE)	UG/L	0.530 U
Toluene	UG/KG	4.00 J
Xylenes, Total	UG/KG	1.60 U

Notes:

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

MG/L = Milligrams per Liter

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

J = Detected, Estimated

UJ = Compound was not detected and repo

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:

Field Sample ID: 072SB-0078-0001-SO

Lab Sample ID: 240-18544-18

Lab Name: TAM0

Sample Date: 12/6/2012

Field QC:

Analysis Information: 1X

Semivolatile Organic Compounds by**Capillary GC/MS****Units**

Acenaphthene	UG/KG	3.60 UJ
Acenaphthylene	UG/KG	3.60 UJ
Anthracene	UG/KG	3.60 UJ
Benzo(a)anthracene	UG/KG	3.60 UJ
Benzo(a)pyrene	UG/KG	3.60 UJ
Benzo(b)fluoranthene	UG/KG	4.40 J
Benzo(g,h,i)perylene	UG/KG	9.70 J
Benzo(k)fluoranthene	UG/KG	4.70 J
Chrysene	UG/KG	3.60 UJ
Dibenz(a,h)anthracene	UG/KG	3.60 UJ
Fluoranthene	UG/KG	3.70 J
Fluorene	UG/KG	3.60 UJ
Indeno(1,2,3-c,d)pyrene	UG/KG	3.60 UJ
Naphthalene	UG/KG	3.60 UJ
Phenanthrene	UG/KG	3.60 UJ
Pyrene	UG/KG	4.80 J

Notes:

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

MG/L = Milligrams per Liter

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

J = Detected, Estimated

UJ = Compound was not detected and repo

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:

Field Sample ID: 072SB-0078-0001-SO

Lab Sample ID: 240-18544-18

Lab Name: TAM0

Sample Date: 12/6/2012

Field QC:

Analysis Information: 1X

Modified SW8015 for the Determination of Diesel

Range Organics in Soil and Water, GC/FID

Units

C10-C20 Diesel Range Organics	UG/L	10.0 U
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C20-C34 Motor Oil Range Organics	UG/L	10.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

072SB-0078Data.xls

TAM0 = TestAmerica, Inc., North Canton, OH

M

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:

Field Sample ID: 072SB-0078-0001-SO

Lab Sample ID: 240-18544-18

Lab Name: TAM0

Sample Date: 12/6/2012

Field QC:

Analysis Information: 1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/L	48.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

072SB-0078Data.xls

TAM0 = TestAmerica, Inc., North Canton, OH

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:

Field Sample ID: 072SB-0078-0001-SO

Lab Sample ID: 240-18544-18

Lab Name: TAM0

Sample Date: 12/6/2012

Field QC:

Analysis Information: 1X

Trace Metals by Inductively Coupled

Plasma/Mass Spectrometry

Units

Aluminum	MG/KG	3500
Antimony	MG/KG	0.180 J
Arsenic	MG/KG	15.0
Barium	MG/KG	44.0
Beryllium	MG/KG	0.280
Cadmium	MG/KG	0.200
Calcium	MG/KG	14000
Chromium	MG/KG	5.90
Cobalt	MG/KG	5.00
Copper	MG/KG	17.0
Iron	MG/KG	31000
Lead	MG/KG	10.0
Magnesium	MG/KG	3100
Manganese	MG/KG	290
Nickel	MG/KG	13.0
Potassium	MG/KG	620
Selenium	MG/KG	0.280 J
Silver	MG/KG	0.0600 J

Notes:

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

MG/L = Milligrams per Liter

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

J = Detected, Estimated

UJ = Compound was not detected and repo

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Sodium	MG/KG	35.0
Thallium	MG/KG	0.140
Vanadium	MG/KG	7.40
Zinc	MG/KG	49.0

Notes:

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

MG/L = Milligrams per Liter

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

J = Detected, Estimated

UJ = Compound was not detected and repo

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 72

Location ID:

Field Sample ID: 072SB-0078-0001-SO

Lab Sample ID: 240-18544-18

Lab Name: TAM0

Sample Date: 12/6/2012

Field QC:

Analysis Information: 1X

Mercury in Soil (Manual Cold-Vapor

Technique)	Units
Mercury	MG/KG 0.0290 J

Notes:

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

MG/L = Milligrams per Liter

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

J = Detected, Estimated

UJ = Compound was not detected and repo

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72						
Location ID:	72-FS-01-SB5	72-SSP-08-SB4	72-WTP-06-SB2	72-1103-R88-SB5	72-2F11-R41-SB1	
Field Sample ID:	072SB-0095-0001-SO	072SB-0094-0001-SO	072SB-0096-0001-SO	072SB-0093-0001-SO	072SB-0097-0001-SO	
Lab Sample ID:	240-28007-5	240-28007-4	240-28007-3	240-28007-7	240-28007-6	
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0	
Sample Date:	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	
Field QC:						
Analysis Information:	1X	1X	1X	1X	1X	
Modified SW8015 for the Determination of Diesel Range Organics in Soil and Water, GC/FID		Units				
C10-C20 Diesel Range Organics	MG/KG	19.0 U	21.0 UJ	18.0 U	19.0 U	15.0 J
C20-C34 Motor Oil Range Organics	MG/KG	13.0 J	21.0 UJ	10.0 J	19.0 U	18.0 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-SSP-08-SB4	72-SSP-08-SB4	72-WTP-06-SB2	72-1103-R88-SB5
Field Sample ID:	072SB-0095-0001-SO	072SB-0094-0001-SO	072SB-0098-0001-TB	072SB-0096-0001-SO	072SB-0093-0001-SO
Lab Sample ID:	240-28007-5	240-28007-4	240-28007-21	240-28007-3	240-28007-7
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID

Units

Petroleum Hydrocarbons C6-C12	UG/KG	98.0 U	110 U	60.0 U	78.0 U	85.0 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID:	72-2F11-R41-SB1
Field Sample ID:	072SB-0097-0001-SO
Lab Sample ID:	240-28007-6
Lab Name:	TAM0
Sample Date:	8/14/2013
Field QC:	
Analysis Information:	1X

**Modified SW8015 for the
Determination of Gasoline Range
Organics in Soil and Water, GC/FID****Units**

Petroleum Hydrocarbons C6-C12	UG/KG	8200
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-SSP-08-SB4	72-WTP-06-SB2	72-1103-R88-SB5	72-2F11-R41-SB1
Field Sample ID:	072SB-0095-0001-SO	072SB-0094-0001-SO	072SB-0096-0001-SO	072SB-0093-0001-SO	072SB-0097-0001-SO
Lab Sample ID:	240-28007-5	240-28007-4	240-28007-3	240-28007-7	240-28007-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units					
Aluminum	MG/KG	11000	10000	6300	13000	7300
Antimony	MG/KG	0.0860 J	0.290	0.110 U	0.0520 J	0.0570 J
Arsenic	MG/KG	11.0	20.0	9.90	8.90	13.0
Barium	MG/KG	29.0	31.0	36.0	80.0	24.0
Beryllium	MG/KG	0.540	0.460	0.360	0.590	0.370
Cadmium	MG/KG	0.130	0.130	0.140	0.140	0.130
Calcium	MG/KG	11000	5800	1500	5300	7400
Chromium	MG/KG	14.0	14.0	8.80	16.0	10.0
Cobalt	MG/KG	11.0	11.0	7.40	8.30	8.10
Copper	MG/KG	16.0	21.0	14.0	18.0	17.0
Iron	MG/KG	26000	30000	19000	23000	22000
Lead	MG/KG	10.0	13.0	12.0	10.0	11.0
Magnesium	MG/KG	8600	5600	2000	4000	4300
Manganese	MG/KG	280	450	390	290	380

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-SSP-08-SB4	72-WTP-06-SB2	72-1103-R88-SB5	72-2F11-R41-SB1
Field Sample ID:	072SB-0095-0001-SO	072SB-0094-0001-SO	072SB-0096-0001-SO	072SB-0093-0001-SO	072SB-0097-0001-SO
Lab Sample ID:	240-28007-5	240-28007-4	240-28007-3	240-28007-7	240-28007-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nickel	MG/KG 25.0	25.0	16.0	23.0	19.0
Potassium	MG/KG 1700	1300	680	990	1000
Selenium	MG/KG 0.120 J	0.120 J	0.110 J	0.220 J	0.100 J
Silver	MG/KG 0.0570 J	0.250	0.390	0.520	0.0430 J
Sodium	MG/KG 110	91.0	63.0	180	72.0
Thallium	MG/KG 0.130	0.120	0.110	0.150	0.100 J
Vanadium	MG/KG 14.0	13.0	10.0	17.0	10.0
Zinc	MG/KG 55.0	56.0	49.0	51.0	50.0

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-SSP-08-SB4	72-WTP-06-SB2	72-1103-R88-SB5	72-2F11-R41-SB1
Field Sample ID:	072SB-0095-0001-SO	072SB-0094-0001-SO	072SB-0096-0001-SO	072SB-0093-0001-SO	072SB-0097-0001-SO
Lab Sample ID:	240-28007-5	240-28007-4	240-28007-3	240-28007-7	240-28007-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique) Units

Mercury	MG/KG	0.0400 U	0.0420 U	0.0380 U	0.0390 U	0.0330 U
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Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-SSP-08-SB4	72-SSP-08-SB4	72-WTP-06-SB2	72-1103-R88-SB5
Field Sample ID:	072SB-0095-0001-SO	072SB-0094-0001-SO	072SB-0098-0001-TB	072SB-0096-0001-SO	072SB-0093-0001-SO
Lab Sample ID:	240-28007-5	240-28007-4	240-28007-21	240-28007-3	240-28007-7
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS		Units				
Benzene	UG/KG	0.440 U	0.550 U	0.250 U	0.400 U	0.440 U
Ethylbenzene	UG/KG	0.440 U	0.550 U	0.250 U	0.400 U	0.440 U
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.440 U	0.550 U	0.250 U	0.400 U	0.440 U
Toluene	UG/KG	0.440 U	0.550 U	0.250 U	0.400 U	0.440 U
Xylenes, Total	UG/KG	0.440 U	0.550 U	0.250 U	0.400 U	0.440 U

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

TAM0 = TestAmerica, Inc., North Canton, OH

MG/KG = Milligrams per Kilogram

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID: 72-2F11-R41-SB1
Field Sample ID: 072SB-0097-0001-SO
Lab Sample ID: 240-28007-6
Lab Name: TAM0
Sample Date: 8/14/2013
Field QC:
Analysis Information: 1X

Volatile Organic Compounds by Capillary GC/MS	Units	
Benzene	UG/KG	0.420 U
Ethylbenzene	UG/KG	0.420 U
tert-Butyl Methyl Ether (MTBE)	UG/KG	0.420 U
Toluene	UG/KG	0.420 U
Xylenes, Total	UG/KG	0.420 U

Notes:

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-SSP-08-SB4	72-WTP-06-SB2	72-1103-R88-SB5	72-2F11-R41-SB1
Field Sample ID:	072SB-0095-0001-SO	072SB-0094-0001-SO	072SB-0096-0001-SO	072SB-0093-0001-SO	072SB-0097-0001-SO
Lab Sample ID:	240-28007-5	240-28007-4	240-28007-3	240-28007-7	240-28007-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Capillary GC/MS

Semivolatile Organic Compounds by Capillary GC/MS	Units					
Acenaphthene	UG/KG	3.80 U	4.10 U	3.60 U	3.70 U	3.50 U
Acenaphthylene	UG/KG	1.90 U	2.10 U	1.80 U	1.90 U	1.80 U
Anthracene	UG/KG	3.80 U	4.10 U	3.60 U	3.70 U	3.50 U
Benzo(a)anthracene	UG/KG	3.80 U	4.10 U	10.0	5.40 J	3.50 U
Benzo(a)pyrene	UG/KG	3.80 U	4.10 U	7.70	4.70 J	3.50 U
Benzo(b)fluoranthene	UG/KG	6.90 J	4.10 U	12.0	7.60	3.90 J
Benzo(g,h,i)perylene	UG/KG	16.0	2.10 U	6.50 J	5.20 J	1.80 U
Benzo(k)fluoranthene	UG/KG	3.80 U	4.10 U	3.70 J	3.70 U	3.50 U
Chrysene	UG/KG	12.0	4.10 U	8.80	5.40 J	4.50 J
Dibenz(a,h)anthracene	UG/KG	3.80 U	4.10 U	3.60 U	3.70 U	3.50 U
Fluoranthene	UG/KG	6.60 J	4.10 U	19.0	16.0	3.50 U
Fluorene	UG/KG	3.80 U	4.10 U	3.60 U	3.70 U	6.50 J
Indeno(1,2,3-c,d)pyrene	UG/KG	1.90 U	2.10 U	4.90 J	4.20 J	1.80 U
Naphthalene	UG/KG	13.0	4.70 J	6.20 J	4.40 J	4.30 J

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MG/KG = Milligrams per Kilogram

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UG/L = Micrograms per Liter

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 72

Location ID:	72-FS-01-SB5	72-SSP-08-SB4	72-WTP-06-SB2	72-1103-R88-SB5	72-2F11-R41-SB1
Field Sample ID:	072SB-0095-0001-SO	072SB-0094-0001-SO	072SB-0096-0001-SO	072SB-0093-0001-SO	072SB-0097-0001-SO
Lab Sample ID:	240-28007-5	240-28007-4	240-28007-3	240-28007-7	240-28007-6
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Phenanthrene	UG/KG 19.0	4.40 J	18.0	16.0	6.40 J
Pyrene	UG/KG 10.0	2.10 U	17.0	11.0	1.80 U

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