

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 77

Location ID:	77-1037-DU1-SB	77-1037-DU1-SB	77-1037-DU1-SS	77-1037-DU1-SS	77-1037-DU1-SB1
Field Sample ID:	077SB-0004M-0001-SO	077SB-0005M-0001-SO	077SS-0001M-0001-SO	077SS-0002M-0001-SO	077SB-0006M-0001-SO
Lab Sample ID:	240-18297-1	240-18297-2	240-17525-5	240-17525-6	240-18297-3
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	11/11/2012	11/11/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X
Nitrogen, Nitrate-Nitrite (Colorimetric Units Automated, Cadmium Reduction)					
Nitrocellulose	MG/KG	18.0 U	18.0 U	17.0 U	18.0 U
				18.0 U	18.0 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 77

Location ID:	77-1037-DU1-SB2	77-1037-DU1-SB2	77-1037-DU1-SB3	77-1037-DU1-SB4	77-1037-DU1-SB5
Field Sample ID:	077SB-0007M-0001-SO	077SB-0008M-0001-SO	077SB-0009M-0001-SO	077SB-0010M-0001-SO	077SB-0011M-0001-SO
Lab Sample ID:	240-18297-4	240-18297-5	240-18297-6	240-18297-7	240-18297-8
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
Nitrogen, Nitrate-Nitrite (Colorimetric Units Automated, Cadmium Reduction)					
Nitrocellulose	MG/KG	18.0 U	17.0 U	16.0 U	18.0 U
					19.0 U

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Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 77

Location ID:	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	1X	1X

Trace Metals by Inductively Coupled Plasma/Mass Spectrometry

	Units		
Aluminum	MG/KG	8200	7700
Antimony	MG/KG	0.200 J	0.170 J
Arsenic	MG/KG	12.0	14.0
Barium	MG/KG	49.0	48.0
Beryllium	MG/KG	0.460	0.420
Cadmium	MG/KG	0.190	0.200
Calcium	MG/KG	4500 J	5200 J
Chromium	MG/KG	18.0	15.0
Cobalt	MG/KG	7.40	7.70
Copper	MG/KG	16.0 J	17.0 J
Iron	MG/KG	22000	20000
Lead	MG/KG	22.0	21.0
Magnesium	MG/KG	2800 J	2700 J
Manganese	MG/KG	540	520

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Location ID:	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	1X	1X
Nickel	MG/KG 24.0	28.0
Potassium	MG/KG 830	740
Selenium	MG/KG 0.560	0.530
Silver	MG/KG 0.0270 J	0.0300 J
Sodium	MG/KG 29.0 J	32.0 J
Thallium	MG/KG 0.130	0.140
Vanadium	MG/KG 16.0	15.0
Zinc	MG/KG 63.0	62.0

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Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 77

Location ID:	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	1X	1X

Mercury in Soil (Manual Cold-Vapor Technique)	Units
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Mercury	MG/KG	0.0450 J	0.0410 J
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Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 77

Location ID:	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	10X	10X

Organochlorine Pesticides and PCBs by Capillary GC

	Units		
Aldrin	UG/KG	13.0 UJ	13.0 UJ
alpha-BHC (alpha-Hexachlorocyclohexane)	UG/KG	13.0 UJ	13.0 UJ
alpha-Chlordane	UG/KG	13.0 UJ	13.0 UJ
alpha-Endosulfan	UG/KG	6.70 UJ	6.60 UJ
beta-BHC (beta-Hexachlorocyclohexane)	UG/KG	13.0 UJ	13.0 UJ
beta-Endosulfan	UG/KG	13.0 UJ	13.0 UJ
delta-BHC (delta-Hexachlorocyclohexane)	UG/KG	13.0 UJ	13.0 UJ
Dieldrin	UG/KG	6.70 UJ	6.60 UJ
Endosulfan Sulfate	UG/KG	13.0 UJ	13.0 UJ
Endrin	UG/KG	6.70 UJ	6.60 UJ
Endrin Aldehyde	UG/KG	13.0 UJ	13.0 UJ
Endrin Ketone	UG/KG	6.70 UJ	6.60 UJ

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Site Name: Site 77

Location ID:	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	10X	10X
gamma-BHC (Lindane)	UG/KG 13.0 UJ	13.0 UJ
gamma-Chlordane	UG/KG 6.70 UJ	6.60 UJ
Heptachlor	UG/KG 13.0 UJ	13.0 UJ
Heptachlor Epoxide	UG/KG 13.0 UJ	13.0 UJ
Methoxychlor	UG/KG 33.0 UJ	32.0 UJ
p,p'-DDD	UG/KG 6.70 UJ	6.60 UJ
p,p'-DDE	UG/KG 5.20 J	8.60 J
p,p'-DDT	UG/KG 6.70 UJ	6.60 UJ
Toxaphene	UG/KG 200 UJ	200 UJ

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Location ID:	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	1X	1X

Polychlorinated Biphenyls (PCB)	Units		
PCB-1016 (Arochlor 1016)	UG/KG	25.0 U	24.0 U
PCB-1221 (Arochlor 1221)	UG/KG	25.0 U	24.0 U
PCB-1232 (Arochlor 1232)	UG/KG	25.0 U	24.0 U
PCB-1242 (Arochlor 1242)	UG/KG	25.0 U	24.0 U
PCB-1248 (Arochlor 1248)	UG/KG	25.0 U	24.0 U
PCB-1254 (Arochlor 1254)	UG/KG	25.0 U	24.0 U
PCB-1260 (Arochlor 1260)	UG/KG	25.0 U	24.0 U

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Location ID:	77-1037-DU1-SS	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO 1	077SS-0002M-0001-SO 1	077SS-0003M-0001-TB
Lab Sample ID:	240-17525-5	240-17525-6	240-17525-7
Lab Name:	TAM0	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012	11/11/2012
Field QC:		Field Duplicate	
Analysis Information:	1X	1X	1X

Volatile Organic Compounds by Capillary GC/MS

	Units			
1,1,1-Trichloroethane	UG/L	0.990 U	0.750 U	0.250 U
1,1,2,2-Tetrachloroethane	UG/L	0.510 U	0.460 U	0.250 U
1,1,2-Trichloroethane	UG/L	0.510 U	0.460 U	0.500 U
1,1-Dichloroethane	UG/L	0.510 U	0.460 U	0.250 U
1,1-Dichloroethene	UG/L	1.00 U	0.920 U	0.250 U
1,2-Dibromoethane (EDB)	UG/L	1.00 U	0.920 U	0.250 U
1,2-Dichloroethane	UG/L	0.510 U	0.460 U	0.250 U
1,2-Dichloroethene	UG/L	1.00 U	0.920 U	0.500 U
1,2-Dichloropropane	UG/L	1.00 U	0.920 U	0.250 U
2-Butanone (MEK)	UG/L	2.10 U	1.80 U	0.570 U
2-Hexanone	UG/L	1.00 U	0.920 U	0.500 U
4-Methyl-2-pentanone (MIBK)	UG/L	1.00 U	0.900 J	0.500 U
Acetone	UG/L	6.20 U	4.70 U	1.10 U
Benzene	UG/L	0.510 U	0.460 U	0.250 U

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1-Samples 077SS-0001M-0001S-SO and 077S-002M-0001-SO are soil samples with units of UG/KG

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RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 77

Location ID:	77-1037-DU1-SS	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO	077SS-0003M-0001-TB
Lab Sample ID:	240-17525-5	240-17525-6	240-17525-7
Lab Name:	TAM0	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012	11/11/2012
Field QC:		Field Duplicate	
Analysis Information:	1X	1X	1X
Bromochloromethane	UG/L 1.00 U	0.920 U	0.500 U
Bromodichloromethane	UG/L 0.510 U	0.460 U	0.250 U
Bromoform	UG/L 0.510 U	0.460 U	0.640 U
Bromomethane	UG/L 1.00 U	0.920 U	0.500 U
Carbon Disulfide	UG/L 0.510 U	0.460 U	0.250 U
Carbon Tetrachloride	UG/L 0.490 U	0.370 U	0.250 U
Chlorobenzene	UG/L 0.510 U	0.460 U	0.250 U
Chloroethane	UG/L 1.00 U	0.920 U	0.500 U
Chloroform	UG/L 0.510 U	0.460 U	0.250 U
Chloromethane	UG/L 0.510 U	0.460 U	0.500 U
cis-1,3-Dichloropropene	UG/L 0.510 U	0.460 U	0.250 U
Dibromochloromethane	UG/L 1.00 U	0.920 U	0.250 U
Ethylbenzene	UG/L 0.510 U	0.460 U	0.250 U
Methylene Chloride	UG/L 1.00 U	0.920 U	0.500 U
Styrene	UG/L 0.510 U	0.460 U	0.250 U

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Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 77

Location ID:	77-1037-DU1-SS	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO	077SS-0003M-0001-TB
Lab Sample ID:	240-17525-5	240-17525-6	240-17525-7
Lab Name:	TAM0	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012	11/11/2012
Field QC:		Field Duplicate	
Analysis Information:	1X	1X	1X
tert-Butyl Methyl Ether (MTBE)	UG/L 0.510 U	0.460 U	0.250 U
Tetrachloroethene (PCE)	UG/L 1.00 U	0.920 U	0.500 U
Toluene	UG/L 0.510 U	0.460 U	0.250 U
trans-1,3-Dichloropropene	UG/L 1.00 U	0.920 U	0.250 U
Trichloroethene (TCE)	UG/L 0.510 U	0.460 U	0.250 U
Vinyl Chloride	UG/L 0.510 U	0.460 U	0.250 U
Xylenes, Total	UG/L 1.50 U	1.40 U	0.750 U

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RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 77

Location ID:	77-1037-DU1-SS	77-1037-DU1-SS
Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	4X	2.5X

Semivolatile Organic Compounds by Capillary GC/MS

	Units		
1,2,4-Trichlorobenzene	UG/KG	110 U	67.0 U
1,2-Dichlorobenzene	UG/KG	110 U	67.0 U
1,3-Dichlorobenzene	UG/KG	110 U	67.0 U
1,4-Dichlorobenzene	UG/KG	110 U	67.0 U
2,4,5-Trichlorophenol	UG/KG	110 U	67.0 U
2,4,6-Trichlorophenol	UG/KG	320 U	200 U
2,4-Dichlorophenol	UG/KG	110 U	67.0 U
2,4-Dimethylphenol	UG/KG	320 U	200 U
2,4-Dinitrophenol	UG/KG	320 U	200 U
2,4-Dinitrotoluene	UG/KG	110 U	67.0 U
2,6-Dinitrotoluene	UG/KG	110 U	67.0 U
2-Chloronaphthalene	UG/KG	13.0 U	8.20 U
2-Chlorophenol	UG/KG	110 U	67.0 U
2-Methylnaphthalene	UG/KG	54.0	60.0

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Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	4X	2.5X
2-Methylphenol (o-Cresol)	UG/KG 320 U	200 U
2-Nitroaniline	UG/KG 110 U	67.0 U
2-Nitrophenol	UG/KG 110 U	67.0 U
3,3'-Dichlorobenzidine	UG/KG 320 UJ	200 UJ
3-Nitroaniline	UG/KG 320 U	200 U
4,6-Dinitro-2-Methylphenol	UG/KG 320 U	200 U
4-Bromophenyl phenyl ether	UG/KG 110 U	67.0 U
4-Chloro-3-Methylphenol	UG/KG 110 U	67.0 U
4-Chloroaniline	UG/KG 110 U	67.0 U
4-Chlorophenyl Phenyl Ether	UG/KG 110 U	67.0 U
4-Nitroaniline	UG/KG 110 U	67.0 U
4-Nitrophenol	UG/KG 320 U	200 U
Acenaphthene	UG/KG 13.0 U	8.20 U
Acenaphthylene	UG/KG 13.0 U	8.20 U
Anthracene	UG/KG 13.0 U	11.0 J

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Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	4X	2.5X
Benzo(a)anthracene	UG/KG 57.0	48.0
Benzo(a)pyrene	UG/KG 88.0	65.0
Benzo(b)fluoranthene	UG/KG 91.0	81.0
Benzo(g,h,i)perylene	UG/KG 47.0	37.0
Benzo(k)fluoranthene	UG/KG 18.0 J	17.0
Benzoic acid	UG/KG 1400 U	830 U
Benzyl alcohol	UG/KG 110 U	67.0 U
Benzyl butyl phthalate	UG/KG 110 U	67.0 U
bis(2-Chloroethoxy) Methane	UG/KG 110 U	67.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	UG/KG 13.0 U	8.20 U
bis(2-Chloroisopropyl) Ether	UG/KG 110 U	67.0 U
bis(2-Ethylhexyl) Phthalate	UG/KG 110 U	67.0 U
Carbazole	UG/KG 110 U	67.0 U
Chrysene	UG/KG 66.0	57.0
Cresols, m & p	UG/KG 320 U	200 U

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Field Sample ID:	077SS-0001M-0001-SO	077SS-0002M-0001-SO
Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	4X	2.5X
Dibenz(a,h)anthracene	UG/KG 13.0 U	8.20 U
Dibenzofuran	UG/KG 14.0 J	14.0 J
Diethyl Phthalate	UG/KG 110 U	67.0 U
Dimethyl Phthalate	UG/KG 110 U	67.0 U
Di-n-Butyl Phthalate	UG/KG 110 U	67.0 U
Di-n-Octylphthalate	UG/KG 110 U	67.0 U
Fluoranthene	UG/KG 120	99.0
Fluorene	UG/KG 13.0 U	9.60 J
Hexachlorobenzene	UG/KG 13.0 U	8.20 U
Hexachlorobutadiene	UG/KG 110 U	67.0 U
Hexachlorocyclopentadiene	UG/KG 110 U	67.0 U
Hexachloroethane	UG/KG 110 U	67.0 U
Indeno(1,2,3-c,d)pyrene	UG/KG 55.0	44.0
Isophorone	UG/KG 110 U	67.0 U
Naphthalene	UG/KG 44.0	54.0

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Lab Sample ID:	240-17525-5	240-17525-6
Lab Name:	TAM0	TAM0
Sample Date:	11/11/2012	11/11/2012
Field QC:		Field Duplicate
Analysis Information:	4X	2.5X
Nitrobenzene	UG/KG 13.0 U	8.20 U
n-Nitrosodi-n-propylamine	UG/KG 110 U	67.0 U
n-Nitrosodiphenylamine	UG/KG 110 R	67.0 R
Pentachlorophenol	UG/KG 320 U	200 U
Phenanthrene	UG/KG 77.0	64.0
Phenol	UG/KG 110 U	67.0 U
Pyrene	UG/KG 95.0	74.0

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Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Fall 2012 SI/RI Sampling Sampling Event

Site Name: Site 77

Location ID:	77-1037-DU1-SB	77-1037-DU1-SB	77-1037-DU1-SS	77-1037-DU1-SS	77-1037-DU1-SB1
Field Sample ID:	077SB-0004M-0001-SO	077SB-0005M-0001-SO	077SS-0001M-0001-SO	077SS-0002M-0001-SO	077SB-0006M-0001-SO
Lab Sample ID:	240-18297-1	240-18297-2	240-17525-5	240-17525-6	240-18297-3
Lab Name:	TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:	12/3/2012	12/3/2012	11/11/2012	11/11/2012	12/3/2012
Field QC:				Field Duplicate	
Analysis Information:	1X	1X	1X	1X	1X

Nitroaromatics and Nitramines by HPLC		Units				
1,3,5-Trinitrobenzene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
1,3-Dinitrobenzene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
2,4,6-Trinitrotoluene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
2,4-Dinitrotoluene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
2,6-Dinitrotoluene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
2-Amino-4,6-dinitrotoluene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
2-Nitrotoluene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
3-Nitrotoluene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
4-Amino-2,6-Dinitrotoluene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
4-Nitrotoluene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
Nitrobenzene	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
Nitroglycerin	MG/KG	0.250 U	0.250 U	0.250 U	0.0830 J	0.250 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 77

Location ID:	77-1037-DU1-SB2	77-1037-DU1-SB2	77-1037-DU1-SB3	77-1037-DU1-SB4	77-1037-DU1-SB5
Field Sample ID:	077SB-0007M-0001-SO	077SB-0008M-0001-SO	077SB-0009M-0001-SO	077SB-0010M-0001-SO	077SB-0011M-0001-SO
Lab Sample ID:	240-18297-4	240-18297-5	240-18297-6	240-18297-7	240-18297-8
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

Nitroaromatics and Nitramines by HPLC

	Units					
1,3,5-Trinitrobenzene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
1,3-Dinitrobenzene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
2,4,6-Trinitrotoluene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
2,4-Dinitrotoluene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
2,6-Dinitrotoluene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
2-Amino-4,6-dinitrotoluene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
2-Nitrotoluene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
3-Nitrotoluene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
4-Amino-2,6-Dinitrotoluene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
4-Nitrotoluene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
Nitrobenzene	MG/KG	0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
Nitroglycerin	MG/KG	0.250 U	0.250 U	0.250 U	0.250 U	0.250 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 77

Location ID:		77-1037-DU1-SB	77-1037-DU1-SB	77-1037-DU1-SS	77-1037-DU1-SS	77-1037-DU1-SB1
Field Sample ID:		077SB-0004M-0001-SO	077SB-0005M-0001-SO	077SS-0001M-0001-SO	077SS-0002M-0001-SO	077SB-0006M-0001-SO
Lab Sample ID:		240-18297-1	240-18297-2	240-17525-5	240-17525-6	240-18297-3
Lab Name:		TAM0	TAM0	TAM0	TAM0	TAM0
Sample Date:		12/3/2012	12/3/2012	11/11/2012	11/11/2012	12/3/2012
Field QC:					Field Duplicate	
Analysis Information:		1X	1X	1X	1X	1X
NITROGUANIDINE	MG/KG	0.0400 U	0.0400 U	0.0400 U	0.0550 J	0.0400 U
Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0500 U	0.0500 U
Pentaerythritol Tetranitrate	MG/KG	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U
Tetryl	MG/KG	0.0500 U	0.0490 U	0.0500 U	0.0280 J	0.0500 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 77

Location ID:	77-1037-DU1-SB2	77-1037-DU1-SB2	77-1037-DU1-SB3	77-1037-DU1-SB4	77-1037-DU1-SB5
Field Sample ID:	077SB-0007M-0001-SO	077SB-0008M-0001-SO	077SB-0009M-0001-SO	077SB-0010M-0001-SO	077SB-0011M-0001-SO
Lab Sample ID:	240-18297-4	240-18297-5	240-18297-6	240-18297-7	240-18297-8
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
NITROGUANIDINE	MG/KG 0.0400 U	0.0390 U	0.0390 U	0.0400 U	0.0400 U
Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	MG/KG 0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U
Pentaerythritol Tetranitrate	MG/KG 0.250 U	0.250 U	0.250 U	0.250 U	0.250 U
Tetryl	MG/KG 0.0500 U	0.0500 U	0.0490 U	0.0500 U	0.0500 U

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