

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71					
Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

GC/MS-SIM Analysis of Selected BNA's by SW8270

	Units					
2-Methylnaphthalene	ug/kg	5.70	2.60	2.00	1.80	2.20
Acenaphthene	ug/kg	0.890 J	0.650 J	0.830 U	0.840 U	0.830 U
Acenaphthylene	ug/kg	4.80	0.830 U	0.830 U	0.840 U	0.830 U
Anthracene	ug/kg	5.90	0.830 U	0.830 U	0.840 U	0.830 U
Benzo(a)anthracene	ug/kg	20.0	1.70 U	0.830 U	2.00 U	0.830 U
Benzo(a)pyrene	ug/kg	13.0	0.720 J	0.420 J	1.00 J	0.360 J
Benzo(b)fluoranthene	ug/kg	25.0	3.90	2.40	4.40	1.70
Benzo(g,h,i)perylene	ug/kg	13.0	1.90	1.80	2.00	0.830 J
Benzo(k)fluoranthene	ug/kg	4.70	0.580 J	0.660 J	0.700 J	0.380 J
Chrysene	ug/kg	13.0	5.40	4.40	5.60	1.50
Dibenz(a,h)anthracene	ug/kg	2.60	0.410 J	1.20 J	0.470 J	0.830 U
Fluoranthene	ug/kg	37.0	2.30	0.680 J	2.80	1.10 J
Fluorene	ug/kg	6.30	1.40 J	0.630 J	0.860 J	1.10 J
Indeno(1,2,3-c,d)pyrene	ug/kg	11.0	0.910 J	1.00 J	1.30 J	0.520 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71					
Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

GC/MS-SIM Analysis of Selected BNA's by SW8270

	Units				
2-Methylnaphthalene	ug/kg	2.50	4.10	4.70	2.60
Acenaphthene	ug/kg	0.910 J	0.690 J	4.00	0.820 U
Acenaphthylene	ug/kg	0.820 U	0.810 U	1.60	0.820 U
Anthracene	ug/kg	0.820 U	0.480 J	0.820 U	0.820 U
Benzo(a)anthracene	ug/kg	1.30 U	0.740 U	0.740 U	0.890 U
Benzo(a)pyrene	ug/kg	0.630 J	0.300 J	0.820 U	0.400 J
Benzo(b)fluoranthene	ug/kg	2.60	2.10	1.70	2.40
Benzo(g,h,i)perylene	ug/kg	1.10 J	1.10 J	1.10 J	1.20 J
Benzo(k)fluoranthene	ug/kg	0.540 J	0.430 J	0.380 J	0.420 J
Chrysene	ug/kg	3.00	2.30	1.90	2.10
Dibenz(a,h)anthracene	ug/kg	0.820 U	0.810 U	0.820 U	0.820 U
Fluoranthene	ug/kg	3.20	0.810 J	1.40 J	1.30 J
Fluorene	ug/kg	1.20 J	0.860 J	4.60	1.20 J
Indeno(1,2,3-c,d)pyrene	ug/kg	0.700 J	0.500 J	0.390 J	0.660 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71					
Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

GC/MS-SIM Analysis of Selected BNA's by SW8270

	Units				
2-Methylnaphthalene	ug/kg	2.90	3.20	2.80	2.20
Acenaphthene	ug/kg	1.00 J	1.10 J	0.830 U	0.520 J
Acenaphthylene	ug/kg	0.820 U	0.820 U	0.830 U	0.820 U
Anthracene	ug/kg	0.820 U	0.820 U	0.830 U	0.820 U
Benzo(a)anthracene	ug/kg	0.900 U	1.20 U	0.830 U	1.40 U
Benzo(a)pyrene	ug/kg	0.290 J	0.520 J	0.400 J	0.630 J
Benzo(b)fluoranthene	ug/kg	2.30	2.80	3.90	1.90
Benzo(g,h,i)perylene	ug/kg	1.80	2.20	2.00	0.920 J
Benzo(k)fluoranthene	ug/kg	0.820 U	1.70	0.830 U	0.500 J
Chrysene	ug/kg	4.30	5.10	14.0	2.50
Dibenz(a,h)anthracene	ug/kg	0.820 U	0.820 U	0.450 J	0.820 U
Fluoranthene	ug/kg	1.00 J	1.20 J	2.00	0.660 J
Fluorene	ug/kg	0.930 J	1.10 J	0.800 J	1.00 J
Indeno(1,2,3-c,d)pyrene	ug/kg	0.520 J	0.710 J	0.580 J	0.680 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71				
Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X

GC/MS-SIM Analysis of Selected BNA's by SW8270

	Units				
2-Methylnaphthalene	ug/kg	3.00	3.90	4.50	14.0
Acenaphthene	ug/kg	0.620 J	0.820 U	0.660 J	1.40 J
Acenaphthylene	ug/kg	0.820 U	0.820 U	0.830 U	2.50
Anthracene	ug/kg	0.820 U	0.820 U	0.830 U	4.20
Benzo(a)anthracene	ug/kg	1.20 U	1.30 U	1.60 U	33.0
Benzo(a)pyrene	ug/kg	0.420 J	0.510 J	0.660 J	23.0
Benzo(b)fluoranthene	ug/kg	2.90	3.20	3.70	41.0
Benzo(g,h,i)perylene	ug/kg	1.50	2.10	2.50	20.0
Benzo(k)fluoranthene	ug/kg	0.820 U	0.400 J	0.460 J	11.0
Chrysene	ug/kg	4.80	5.50	7.10	23.0
Dibenz(a,h)anthracene	ug/kg	0.820 U	0.360 J	0.600 J	5.40
Fluoranthene	ug/kg	1.40 J	1.40 J	1.90	41.0
Fluorene	ug/kg	1.10 J	0.820 J	1.40 J	2.50
Indeno(1,2,3-c,d)pyrene	ug/kg	0.610 J	0.690 J	0.860 J	18.0

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Naphthalene	ug/kg 5.20	2.60	1.70	1.40 U	2.10
Phenanthrene	ug/kg 40.0	7.60	2.60 U	4.00 U	3.10 U
Pyrene	ug/kg 26.0	2.00	0.670 J	2.10	0.970 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Naphthalene	ug/kg 2.60	4.00	8.10	2.60	2.70
Phenanthrene	ug/kg 3.70 U	3.10 U	20.0	3.20 U	3.20 U
Pyrene	ug/kg 2.30	0.830 J	2.70	1.10 J	0.980 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Naphthalene	ug/kg 3.70 J	0.820 U	2.70	2.10	2.50
Phenanthrene	ug/kg 4.00 U	4.10 U	13.0	2.70 U	3.60 U
Pyrene	ug/kg 1.20 J	1.40 J	1.30 J	0.730 J	1.60

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
Naphthalene	ug/kg 0.820 U	0.820 U	3.70	9.70
Phenanthrene	ug/kg 4.70 U	4.80 U	6.40	24.0
Pyrene	ug/kg 1.40 J	1.40 J	1.90	34.0

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338288	338352	338354	338356	338358
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Residue, Total (Gravimetric, Dried at 103-105 Degree Celsius) Units

Solids	PERCENT T	83.9	82.9	83.3	82.7	82.2
--------	--------------	------	------	------	------	------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338360	338365	338368	338370	338372
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Residue, Total (Gravimetric, Dried at 103-105 Degree Celsius) Units

Solids	PERCENT T	82.3	84.6	84.6	84.8	83.4
--------	--------------	------	------	------	------	------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338378	338382	338408	338362	338376
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Residue, Total (Gravimetric, Dried at 103-105 Degree Celsius) Units

Solids	PERCENT T	85.1	84.3	83.0	84.7	85.5
--------	--------------	------	------	------	------	------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338380	338385	338374	338388
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X

Residue, Total (Gravimetric, Dried at 103-105 Degree Celsius) Units

Solids	PERCENT T	85.5	84.8	84.4	84.3
--------	--------------	------	------	------	------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB7	71-B5S-DU1-SB11
Field Sample ID:	071SB-0010M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338369	338375
Lab Name:	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013
Field QC:		
Analysis Information:	1X	1X

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

Nitrocellulose	mg/kg	100 U	100 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	381305	381307	381309	381311	381313
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
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	5.20 J	15.0 UJ	16.0 UJ	16.0 UJ
C20-C34 Motor Oil Range Organics	mg/kg	15.0 UJ	15.0 UJ	16.0 UJ	16.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	381315	381319	381321	381323	381325
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
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	15.0 UJ	16.0 J	32.0 J	9.20 J
C20-C34 Motor Oil Range Organics	mg/kg	15.0 UJ	15.0 UJ	15.0 UJ	15.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	381331	381335	381341	381317	381329
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
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 J	24.0 J	28.0 J	15.0 UJ	13.0 J
C20-C34 Motor Oil Range Organics	mg/kg	8.20 J	7.10 J	14.0 J	15.0 UJ	15.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	381333	381337	381327	381339
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	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	15.0 J	9.40 J	9.50 J	17.0 J
C20-C34 Motor Oil Range Organics	mg/kg	15.0 UJ	15.0 UJ	15.0 UJ	12.0 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	381305	381307	381309	381311	381313
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
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	mg/kg	15.0 U	15.0 U	16.0 U	16.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	381315	381319	381321	381323	381325
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
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	mg/kg	15.0 U	15.0 U	19.0	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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	381331	381335	381341	381317	381329
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
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	mg/kg	15.0 U	15.0 U	16.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	381333	381337	381327	381339
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
Modified SW8015 for the Determination of Gasoline Range Organics in Soil and Water, GC/FID	Units			
Petroleum Hydrocarbons C6-C12	mg/kg	15.0 U	15.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3	
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO	
Lab Sample ID:	338288	338352	338354	338356	338358	
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB	
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	
Field QC:						
Analysis Information:	1X	1X	1X	1X	1X	
Gasoline in Soil - Adapted Method from EPA SW846 5030 &/or 8020	Units					
Gasoline Components	mg/kg	2.80 U	2.90 U	2.90 U	2.70 U	3.00 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8	
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO	
Lab Sample ID:	338360	338365	338368	338370	338372	
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB	
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	
Field QC:						
Analysis Information:	1X	1X	1X	1X	1X	
Gasoline in Soil - Adapted Method from EPA SW846 5030 &/or 8020	Units					
Gasoline Components	mg/kg	2.90 U	2.70 U	8.30	2.50 U	2.80 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11	
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO	
Lab Sample ID:	338378	338382	338408	338362	338376	
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB	
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	
Field QC:		Field Duplicate				
Analysis Information:	1X	1X	1X	1X	1X	
Gasoline in Soil - Adapted Method from EPA SW846 5030 &/or 8020	Units					
Gasoline Components	mg/kg	2.60 U	2.80 U	2.70 U	2.50 U	3.10 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14	
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO	
Lab Sample ID:	338380	338385	338374	338388	
Lab Name:	CTLB	CTLB	CTLB	CTLB	
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	
Gasoline in Soil - Adapted Method from EPA SW846 5030 &/or 8020	Units				
Gasoline Components	mg/kg	2.60 U	2.80 U	2.70 U	2.40 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	5X	5X	5X	5X	5X

Trace Metals by Inductively Coupled Plasma/Atomic Emission Spectrometry

	Units				
Aluminum	mg/kg				
Antimony	mg/kg				
Arsenic	mg/kg				
Barium	mg/kg				
Beryllium	mg/kg				
Cadmium	mg/kg				
Calcium	mg/kg				
Chromium	mg/kg				
Cobalt	mg/kg				
Copper	mg/kg				
Iron	mg/kg				
Lead	mg/kg	10.6	10.3	8.90 J	8.60
Magnesium	mg/kg				8.90

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	5X	5X	5X	1X,5X	5X

Trace Metals by Inductively Coupled Plasma/Atomic Emission Spectrometry

	Units				
Aluminum	mg/kg				11900 J
Antimony	mg/kg				1.20 J
Arsenic	mg/kg				13.7 J
Barium	mg/kg				103 J
Beryllium	mg/kg				0.650 J
Cadmium	mg/kg				0.660 J
Calcium	mg/kg				20100
Chromium	mg/kg				18.4 J
Cobalt	mg/kg				11.5 J
Copper	mg/kg				18.4 J
Iron	mg/kg				25600 J
Lead	mg/kg	8.30	10.0	11.4	11.5 J 12.6
Magnesium	mg/kg				6640 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	5X	5X	1X	5X	1X,5X

Trace Metals by Inductively Coupled Plasma/Atomic Emission Spectrometry

	Units				
Aluminum	mg/kg				32200 J
Antimony	mg/kg				1.40
Arsenic	mg/kg				7.30 J
Barium	mg/kg				59.1
Beryllium	mg/kg				0.480
Cadmium	mg/kg				2.40 J
Calcium	mg/kg				32200
Chromium	mg/kg				14.6
Cobalt	mg/kg				9.50 J
Copper	mg/kg				19.9
Iron	mg/kg				18500 J
Lead	mg/kg	9.00	11.0	8.20	7.40
Magnesium	mg/kg				7220

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	5X	1X	5X	1X

Trace Metals by Inductively Coupled Plasma/Atomic Emission Spectrometry

	Units				
Aluminum	mg/kg				
Antimony	mg/kg				
Arsenic	mg/kg				
Barium	mg/kg				
Beryllium	mg/kg				
Cadmium	mg/kg				
Calcium	mg/kg				
Chromium	mg/kg				
Cobalt	mg/kg				
Copper	mg/kg				
Iron	mg/kg				
Lead	mg/kg	8.80	8.20	11.9	17.3
Magnesium	mg/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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	5X	5X	5X	5X	5X
Manganese	mg/kg				
Nickel	mg/kg				
Potassium	mg/kg				
Selenium	mg/kg				
Silver	mg/kg				
Sodium	mg/kg				
Thallium	mg/kg				
Vanadium	mg/kg				
Zinc	mg/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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	5X	5X	5X	1X,5X	5X
Manganese	mg/kg			447 J	
Nickel	mg/kg			32.9 J	
Potassium	mg/kg			1350 J	
Selenium	mg/kg			0.200 UJ	
Silver	mg/kg			0.0500 UJ	
Sodium	mg/kg			102 J	
Thallium	mg/kg			0.240 UJ	
Vanadium	mg/kg			18.9 J	
Zinc	mg/kg			60.6 J	

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	5X	5X	1X	5X	1X,5X
Manganese	mg/kg				269
Nickel	mg/kg				23.1
Potassium	mg/kg				1640
Selenium	mg/kg				0.210 UJ
Silver	mg/kg				0.0510 UJ
Sodium	mg/kg				101
Thallium	mg/kg				0.250 UJ
Vanadium	mg/kg				15.6
Zinc	mg/kg				42.8

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	5X	1X	5X	1X
Manganese	mg/kg			
Nickel	mg/kg			
Potassium	mg/kg			
Selenium	mg/kg			
Silver	mg/kg			
Sodium	mg/kg			
Thallium	mg/kg			
Vanadium	mg/kg			
Zinc	mg/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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB7	71-B5S-DU1-SB11
Field Sample ID:	071SB-0010M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338369	338375
Lab Name:	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013
Field QC:		
Analysis Information:	1X	1X

Mercury in Soil (Manual Cold-Vapor Techique) Units

Mercury	mg/kg	0.0220	0.00940
---------	-------	---------------	----------------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Nonhalogenated Volatile Organics Units

Diesel Components	mg/kg	9.50 J	6.30 J	11.0 J	7.00 J	19.0 J
-------------------	-------	---------------	---------------	---------------	---------------	---------------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Nonhalogenated Volatile Organics Units

Diesel Components	mg/kg	14.0 J	22.0 J	38.0 J	15.0 J	13.0 J
-------------------	-------	---------------	---------------	---------------	---------------	---------------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Nonhalogenated Volatile Organics Units

Diesel Components	mg/kg	20.0 J	21.0 J	28.0 J	13.0 J	18.0 J
-------------------	-------	---------------	---------------	---------------	---------------	---------------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X

Nonhalogenated Volatile Organics Units

Diesel Components	mg/kg	19.0 J	22.0 J	14.0 J	24.0 J
-------------------	-------	---------------	---------------	---------------	---------------

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB7	71-B5S-DU1-SB11
Field Sample ID:	071SB-0010M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338369	338375
Lab Name:	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013
Field QC:		
Analysis Information:	1X	1X

Organochlorine Pesticides by Capillary GC

	Units		
Aldrin	ug/kg	1.20 U	1.20 U
alpha-BHC (alpha-Hexachlorocyclohexane)	ug/kg	1.20 U	1.20 U
alpha-Chlordane	ug/kg	1.20 U	1.20 U
alpha-Endosulfan	ug/kg	1.20 U	1.20 U
beta-BHC (beta-Hexachlorocyclohexane)	ug/kg	1.70 J	1.20 U
beta-Endosulfan	ug/kg	1.20 U	1.20 U
delta-BHC (delta-Hexachlorocyclohexane)	ug/kg	1.20 U	1.20 U
Dieldrin	ug/kg	1.20 U	1.20 U
Endosulfan Sulfate	ug/kg	1.20 U	1.20 U
Endrin	ug/kg	1.20 U	1.20 U
Endrin Aldehyde	ug/kg	1.20 U	1.20 U
Endrin Ketone	ug/kg	1.20 U	1.20 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB7	71-B5S-DU1-SB11
Field Sample ID:	071SB-0010M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338369	338375
Lab Name:	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013
Field QC:		
Analysis Information:	1X	1X
gamma-BHC (Lindane)	ug/kg 1.20 U	1.20 U
gamma-Chlordane	ug/kg 1.20 U	1.20 U
Heptachlor	ug/kg 1.20 U	1.20 U
Heptachlor Epoxide	ug/kg 1.20 U	1.20 U
Methoxychlor	ug/kg 1.20 U	1.20 U
p,p'-DDD	ug/kg 1.20 U	1.20 U
p,p'-DDE	ug/kg 1.20 U	1.20 U
p,p'-DDT	ug/kg 1.20 U	1.20 U
Toxaphene	ug/kg 12.0 U	12.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB7	71-B5S-DU1-SB11
Field Sample ID:	071SB-0010M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338369	338375
Lab Name:	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013
Field QC:		
Analysis Information:	1X	1X

Polychlorinated Biphenyls (PCB)	Units		
PCB-1016 (Arochlor 1016)	ug/kg	20.0 U	20.0 U
PCB-1221 (Arochlor 1221)	ug/kg	20.0 U	20.0 U
PCB-1232 (Arochlor 1232)	ug/kg	20.0 U	20.0 U
PCB-1242 (Arochlor 1242)	ug/kg	20.0 U	20.0 U
PCB-1248 (Arochlor 1248)	ug/kg	20.0 U	20.0 U
PCB-1254 (Arochlor 1254)	ug/kg	20.0 U	20.0 U
PCB-1260 (Arochlor 1260)	ug/kg	20.0 U	20.0 U
PCB-1262 (Arochlor 1262)	ug/kg	20.0 U	20.0 U
PCB-1268 (Arochlor 1268)	ug/kg	20.0 U	20.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338288	338352	338354	338356	338358
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by GC/MS

	Units					
1,1,1-Trichloroethane	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
1,1,2,2-Tetrachloroethane	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
1,1,2-Trichloroethane	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
1,1-Dichloroethane	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
1,1-Dichloroethene	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
1,2-Dibromoethane (EDB)	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
1,2-Dichloroethane	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
1,2-Dichloroethene	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
1,2-Dichloropropane	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
2-Butanone (MEK)	ug/kg	11.0 U	10.0 U	8.20 U	9.40 U	9.90 U
2-Hexanone	ug/kg	21.0 U	20.0 U	16.0 U	19.0 U	20.0 U
4-Methyl-2-pentanone (MIBK)	ug/kg	11.0 U	10.0 U	8.20 U	9.40 U	9.90 U
Acetone	ug/kg	11.0 U	49.0 U	20.0 U	9.40 U	22.0 U
Benzene	ug/kg	1.10 U	1.00 U	0.820 U	0.940 U	0.990 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338360	338365	338368	338370	338372
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by GC/MS

	Units				
1,1,1-Trichloroethane	ug/kg	0.950 U	0.980 U	1.00 U	0.780 U
1,1,2,2-Tetrachloroethane	ug/kg	0.950 U	0.980 U	1.00 U	0.780 U
1,1,2-Trichloroethane	ug/kg	0.950 U	0.980 U	1.00 U	0.780 U
1,1-Dichloroethane	ug/kg	0.950 U	0.980 U	1.00 U	0.780 U
1,1-Dichloroethene	ug/kg	0.950 U	0.980 U	1.00 U	0.780 U
1,2-Dibromoethane (EDB)	ug/kg	0.950 U	0.980 U	1.00 U	0.780 U
1,2-Dichloroethane	ug/kg	0.950 U	0.980 U	4.80 J	0.780 U
1,2-Dichloroethene	ug/kg	0.950 U	0.980 U	1.00 U	0.780 U
1,2-Dichloropropane	ug/kg	0.950 U	0.980 U	1.00 U	0.780 U
2-Butanone (MEK)	ug/kg	9.50 U	9.80 U	10.0 U	7.80 U
2-Hexanone	ug/kg	19.0 U	20.0 U	20.0 U	16.0 U
4-Methyl-2-pentanone (MIBK)	ug/kg	9.50 U	9.80 U	10.0 U	7.80 U
Acetone	ug/kg	9.50 U	9.80 U	10.0 U	7.80 U
Benzene	ug/kg	0.950 U	0.980 U	0.500 U	0.780 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338378	338382	338408	338362	338376
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by GC/MS

	Units					
1,1,1-Trichloroethane	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
1,1,2,2-Tetrachloroethane	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
1,1,2-Trichloroethane	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
1,1-Dichloroethane	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
1,1-Dichloroethene	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
1,2-Dibromoethane (EDB)	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
1,2-Dichloroethane	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
1,2-Dichloroethene	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
1,2-Dichloropropane	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
2-Butanone (MEK)	ug/kg	9.30 U	9.30 U	9.00 U	8.00 U	11.0 U
2-Hexanone	ug/kg	19.0 U	19.0 U	18.0 U	16.0 U	21.0 U
4-Methyl-2-pentanone (MIBK)	ug/kg	9.30 U	9.30 U	9.00 U	8.00 U	11.0 U
Acetone	ug/kg	9.30 U	9.30 U	9.00 U	14.0 U	11.0 U
Benzene	ug/kg	0.930 U	0.930 U	0.900 U	0.800 U	1.10 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0025-0001-TB	071SB-0022M-0001-SO
Lab Sample ID:	338380	338385	338374	338430	338388
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Volatile Organic Compounds by GC/MS

	Units				
1,1,1-Trichloroethane	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
1,1,2,2-Tetrachloroethane	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
1,1,2-Trichloroethane	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
1,1-Dichloroethane	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
1,1-Dichloroethene	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
1,2-Dibromoethane (EDB)	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
1,2-Dichloroethane	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
1,2-Dichloroethene	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
1,2-Dichloropropane	ug/kg	0.860 U	0.970 U	0.710 U	1.00 U
2-Butanone (MEK)	ug/kg	8.60 U	9.70 U	7.10 U	10.0 U
2-Hexanone	ug/kg	17.0 U	19.0 U	14.0 U	20.0 U
4-Methyl-2-pentanone (MIBK)	ug/kg	8.60 U	9.70 U	7.10 U	10.0 U
Acetone	ug/kg	8.60 U	9.70 U	7.10 U	23.0
Benzene	ug/kg	0.860 U	0.970 U	0.710 U	1.00 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID: 71-B5S-DU1-SB14
Field Sample ID: 071SB-0026-0001-TB
Lab Sample ID: 338431
Lab Name: CTLB
Sample Date: 8/13/2013
Field QC:
Analysis Information: 1X

Volatile Organic Compounds by GC/MS

	Units	
1,1,1-Trichloroethane	ug/kg	1.00 U
1,1,2,2-Tetrachloroethane	ug/kg	1.00 U
1,1,2-Trichloroethane	ug/kg	1.00 U
1,1-Dichloroethane	ug/kg	1.00 U
1,1-Dichloroethene	ug/kg	1.00 U
1,2-Dibromoethane (EDB)	ug/kg	1.00 U
1,2-Dichloroethane	ug/kg	1.00 U
1,2-Dichloroethene	ug/kg	1.00 U
1,2-Dichloropropane	ug/kg	1.00 U
2-Butanone (MEK)	ug/kg	10.0 U
2-Hexanone	ug/kg	20.0 U
4-Methyl-2-pentanone (MIBK)	ug/kg	10.0 U
Acetone	ug/kg	10.0 U
Benzene	ug/kg	0.700 J

Notes:

J = Detected, Estimated

UJ = Compound was not detected and reporting limit is estimated

U = Compound was Not Detected

ID = Identification

QC = Quality Control

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338288	338352	338354	338356	338358
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Bromodichloromethane	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Bromoform	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Bromomethane	ug/kg 1.10 U	1.00 U	0.820 UJ	0.940 UJ	0.990 UJ
Carbon Disulfide	ug/kg 2.10 U	2.00 U	1.60 U	1.90 U	2.00 U
Carbon Tetrachloride	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Chlorobenzene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Chloroethane	ug/kg 1.10 U	1.00 U	0.820 UJ	0.940 UJ	0.990 UJ
Chloroform	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Chloromethane	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
cis-1,2-Dichloroethylene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
cis-1,3-Dichloropropene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Dibromochloromethane	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Ethylbenzene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
m,p-Xylene	ug/kg 2.10 U	2.00 U	1.60 U	1.90 U	2.00 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338360	338365	338368	338370	338372
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Bromodichloromethane	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Bromoform	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Bromomethane	ug/kg 0.950 UJ	0.980 UJ	1.00 UJ	0.780 UJ	0.790 UJ
Carbon Disulfide	ug/kg 1.90 U	2.00 U	2.00 U	1.60 U	1.60 U
Carbon Tetrachloride	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Chlorobenzene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Chloroethane	ug/kg 0.950 U	0.980 UJ	1.00 UJ	0.780 UJ	0.790 UJ
Chloroform	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Chloromethane	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
cis-1,2-Dichloroethylene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
cis-1,3-Dichloropropene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Dibromochloromethane	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Ethylbenzene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
m,p-Xylene	ug/kg 1.90 U	2.00 U	2.00 U	1.60 U	1.60 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338378	338382	338408	338362	338376
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Bromodichloromethane	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Bromoform	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Bromomethane	ug/kg 0.930 UJ	0.930 UJ	0.900 UJ	0.800 UJ	1.10 UJ
Carbon Disulfide	ug/kg 1.90 U	1.90 U	1.80 U	1.60 U	2.10 U
Carbon Tetrachloride	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Chlorobenzene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Chloroethane	ug/kg 0.930 UJ	0.930 UJ	0.900 UJ	0.800 UJ	1.10 UJ
Chloroform	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Chloromethane	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
cis-1,2-Dichloroethylene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
cis-1,3-Dichloropropene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Dibromochloromethane	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Ethylbenzene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
m,p-Xylene	ug/kg 1.90 U	1.90 U	1.80 U	1.60 U	2.10 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0025-0001-TB	071SB-0022M-0001-SO
Lab Sample ID:	338380	338385	338374	338430	338388
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Bromochloromethane	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Bromodichloromethane	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Bromoform	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Bromomethane	ug/kg 0.860 UJ	0.970 UJ	0.710 UJ	1.00 U	0.810 UJ
Carbon Disulfide	ug/kg 1.70 U	1.90 U	1.40 U	2.00 U	1.60 U
Carbon Tetrachloride	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Chlorobenzene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Chloroethane	ug/kg 0.860 UJ	0.970 UJ	0.710 UJ	1.00 U	0.810 UJ
Chloroform	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Chloromethane	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
cis-1,2-Dichloroethylene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
cis-1,3-Dichloropropene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Dibromochloromethane	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Ethylbenzene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
m,p-Xylene	ug/kg 1.70 U	1.90 U	1.40 U	2.00 U	1.60 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB14	
Field Sample ID:	071SB-0026-0001-TB	
Lab Sample ID:	338431	
Lab Name:	CTLB	
Sample Date:	8/13/2013	
Field QC:		
Analysis Information:	1X	
Bromochloromethane	ug/kg	1.00 U
Bromodichloromethane	ug/kg	1.00 U
Bromoform	ug/kg	1.00 U
Bromomethane	ug/kg	1.00 U
Carbon Disulfide	ug/kg	2.00 U
Carbon Tetrachloride	ug/kg	1.00 U
Chlorobenzene	ug/kg	1.00 U
Chloroethane	ug/kg	1.00 U
Chloroform	ug/kg	1.00 U
Chloromethane	ug/kg	1.00 U
cis-1,2-Dichloroethylene	ug/kg	1.00 U
cis-1,3-Dichloropropene	ug/kg	1.00 U
Dibromochloromethane	ug/kg	1.00 U
Ethylbenzene	ug/kg	1.00 U
m,p-Xylene	ug/kg	2.00 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338288	338352	338354	338356	338358
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Methylene Chloride	ug/kg 2.10 U	2.00 U	1.60 U	1.90 U	2.00 U
o-Xylene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Styrene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
tert-Butyl Methyl Ether (MTBE)	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Tetrachloroethene (PCE)	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Toluene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
trans-1,2-Dichloroethene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
trans-1,3-Dichloropropene	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Trichloroethene (TCE)	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Vinyl Chloride	ug/kg 1.10 U	1.00 U	0.820 U	0.940 U	0.990 U
Xylenes, Total	ug/kg 2.10 U	2.00 U	1.60 U	1.90 U	2.00 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338360	338365	338368	338370	338372
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Methylene Chloride	ug/kg 1.90 U	2.00 U	2.00 U	1.60 U	1.60 U
o-Xylene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Styrene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
tert-Butyl Methyl Ether (MTBE)	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Tetrachloroethene (PCE)	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Toluene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
trans-1,2-Dichloroethene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
trans-1,3-Dichloropropene	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Trichloroethene (TCE)	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Vinyl Chloride	ug/kg 0.950 U	0.980 U	1.00 U	0.780 U	0.790 U
Xylenes, Total	ug/kg 1.90 U	2.00 U	2.00 U	1.60 U	1.60 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338378	338382	338408	338362	338376
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Methylene Chloride	ug/kg 1.90 U	1.90 U	1.80 U	1.60 U	2.10 U
o-Xylene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Styrene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
tert-Butyl Methyl Ether (MTBE)	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Tetrachloroethene (PCE)	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Toluene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
trans-1,2-Dichloroethene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
trans-1,3-Dichloropropene	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Trichloroethene (TCE)	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Vinyl Chloride	ug/kg 0.930 U	0.930 U	0.900 U	0.800 U	1.10 U
Xylenes, Total	ug/kg 1.90 U	1.90 U	1.80 U	1.60 U	2.10 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0025-0001-TB	071SB-0022M-0001-SO
Lab Sample ID:	338380	338385	338374	338430	338388
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Methylene Chloride	ug/kg 1.70 U	1.90 U	1.40 U	2.00 U	1.60 U
o-Xylene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Styrene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
tert-Butyl Methyl Ether (MTBE)	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Tetrachloroethene (PCE)	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Toluene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
trans-1,2-Dichloroethene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
trans-1,3-Dichloropropene	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Trichloroethene (TCE)	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Vinyl Chloride	ug/kg 0.860 U	0.970 U	0.710 U	1.00 U	0.810 U
Xylenes, Total	ug/kg 1.70 U	1.90 U	1.40 U	2.00 U	1.60 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB14	
Field Sample ID:	071SB-0026-0001-TB	
Lab Sample ID:	338431	
Lab Name:	CTLB	
Sample Date:	8/13/2013	
Field QC:		
Analysis Information:	1X	
Methylene Chloride	ug/kg	2.00 U
o-Xylene	ug/kg	1.00 U
Styrene	ug/kg	1.00 U
tert-Butyl Methyl Ether (MTBE)	ug/kg	1.00 U
Tetrachloroethene (PCE)	ug/kg	1.00 U
Toluene	ug/kg	1.40 J
trans-1,2-Dichloroethene	ug/kg	1.00 U
trans-1,3-Dichloropropene	ug/kg	1.00 U
Trichloroethene (TCE)	ug/kg	1.00 U
Vinyl Chloride	ug/kg	1.00 U
Xylenes, Total	ug/kg	2.00 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry

	Units				
1,2,4-Trichlorobenzene	ug/kg	62.0 U	62.0 U	62.0 U	63.0 U
1,2-Dichlorobenzene	ug/kg	62.0 U	62.0 U	62.0 U	63.0 U
1,3-Dichlorobenzene	ug/kg	62.0 U	62.0 U	62.0 U	63.0 U
1,4-Dichlorobenzene	ug/kg	62.0 U	62.0 U	62.0 U	63.0 U
2,2'-Oxybis(1-chloro)propane	ug/kg	62.0 U	62.0 U	62.0 U	63.0 U
2,4,5-Trichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4,6-Trichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dimethylphenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dinitrophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dinitrotoluene	ug/kg	62.0 U	62.0 U	62.0 U	63.0 U
2,6-Dinitrotoluene	ug/kg	62.0 U	62.0 U	62.0 U	63.0 U
2-Chloronaphthalene	ug/kg	62.0 U	62.0 U	62.0 U	63.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry

	Units				
1,2,4-Trichlorobenzene	ug/kg	62.0 U	62.0 U	61.0 U	61.0 U
1,2-Dichlorobenzene	ug/kg	62.0 U	62.0 U	61.0 U	61.0 U
1,3-Dichlorobenzene	ug/kg	62.0 U	62.0 U	61.0 U	61.0 U
1,4-Dichlorobenzene	ug/kg	62.0 U	62.0 U	61.0 U	61.0 U
2,2'-Oxybis(1-chloro)propane	ug/kg	62.0 U	62.0 U	61.0 U	61.0 U
2,4,5-Trichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4,6-Trichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dimethylphenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dinitrophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dinitrotoluene	ug/kg	62.0 U	62.0 U	61.0 U	61.0 U
2,6-Dinitrotoluene	ug/kg	62.0 U	62.0 U	61.0 U	61.0 U
2-Chloronaphthalene	ug/kg	62.0 U	62.0 U	61.0 U	61.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X

Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry

	Units					
1,2,4-Trichlorobenzene	ug/kg	62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
1,2-Dichlorobenzene	ug/kg	62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
1,3-Dichlorobenzene	ug/kg	62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
1,4-Dichlorobenzene	ug/kg	62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
2,2'-Oxybis(1-chloro)propane	ug/kg	62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
2,4,5-Trichlorophenol	ug/kg	310 U	310 U	310 U	310 U	310 U
2,4,6-Trichlorophenol	ug/kg	310 U	310 U	310 U	310 U	310 U
2,4-Dichlorophenol	ug/kg	310 U	310 U	310 U	310 U	310 U
2,4-Dimethylphenol	ug/kg	310 U	310 U	310 U	310 U	310 U
2,4-Dinitrophenol	ug/kg	310 U	310 U	310 U	310 U	310 U
2,4-Dinitrotoluene	ug/kg	62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
2,6-Dinitrotoluene	ug/kg	62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
2-Chloronaphthalene	ug/kg	62.0 U	62.0 U	62.0 U	62.0 U	62.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X

Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry

	Units				
1,2,4-Trichlorobenzene	ug/kg	61.0 U	62.0 U	62.0 U	62.0 U
1,2-Dichlorobenzene	ug/kg	61.0 U	62.0 U	62.0 U	62.0 U
1,3-Dichlorobenzene	ug/kg	61.0 U	62.0 U	62.0 U	62.0 U
1,4-Dichlorobenzene	ug/kg	61.0 U	62.0 U	62.0 U	62.0 U
2,2'-Oxybis(1-chloro)propane	ug/kg	61.0 U	62.0 U	62.0 U	62.0 U
2,4,5-Trichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4,6-Trichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dichlorophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dimethylphenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dinitrophenol	ug/kg	310 U	310 U	310 U	310 U
2,4-Dinitrotoluene	ug/kg	61.0 U	62.0 U	62.0 U	62.0 U
2,6-Dinitrotoluene	ug/kg	61.0 U	62.0 U	62.0 U	62.0 U
2-Chloronaphthalene	ug/kg	61.0 U	62.0 U	62.0 U	62.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Chlorophenol	ug/kg 620 U	620 U	620 U	630 U	620 U
2-Methylphenol (o-Cresol)	ug/kg 620 U	620 U	620 U	630 U	620 U
2-Nitroaniline	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
2-Nitrophenol	ug/kg 310 U	310 U	310 U	310 U	310 U
3,3'-Dichlorobenzidine	ug/kg 150 U	160 U	160 U	160 U	150 U
3-Nitroaniline	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
4,6-Dinitro-2-Methylphenol	ug/kg 310 U	310 U	310 UJ	310 U	310 U
4-Bromophenyl phenyl ether	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
4-Chloro-3-Methylphenol	ug/kg 620 U	620 U	620 U	630 U	620 U
4-Chloroaniline	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
4-Chlorophenyl Phenyl Ether	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
4-Nitroaniline	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
4-Nitrophenol	ug/kg 620 U	620 U	620 U	630 U	620 U
Benzoic acid	ug/kg 1500 U	1600 U	1600 U	1600 U	1500 U
Benzyl alcohol	ug/kg 120 U	120 U	120 U	130 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
2-Chlorophenol	ug/kg 620 U	620 U	610 U	610 U	620 U
2-Methylphenol (o-Cresol)	ug/kg 620 U	620 U	610 U	610 U	620 U
2-Nitroaniline	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
2-Nitrophenol	ug/kg 310 U	310 U	310 U	310 U	310 U
3,3'-Dichlorobenzidine	ug/kg 150 U	150 U	150 U	150 U	150 U
3-Nitroaniline	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
4,6-Dinitro-2-Methylphenol	ug/kg 310 U	310 U	310 U	310 U	310 U
4-Bromophenyl phenyl ether	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
4-Chloro-3-Methylphenol	ug/kg 620 U	620 U	610 U	610 U	620 U
4-Chloroaniline	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
4-Chlorophenyl Phenyl Ether	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
4-Nitroaniline	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
4-Nitrophenol	ug/kg 620 U	620 U	610 U	610 U	620 U
Benzoic acid	ug/kg 1500 U	1500 U	1500 U	1500 U	1500 U
Benzyl alcohol	ug/kg 120 U	120 U	120 U	120 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
2-Chlorophenol	ug/kg 620 U	620 U	620 U	620 U	620 U
2-Methylphenol (o-Cresol)	ug/kg 620 U	620 U	620 U	620 U	620 U
2-Nitroaniline	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
2-Nitrophenol	ug/kg 310 U	310 U	310 U	310 U	310 U
3,3'-Dichlorobenzidine	ug/kg 150 U	150 U	160 U	150 U	150 U
3-Nitroaniline	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
4,6-Dinitro-2-Methylphenol	ug/kg 310 U	310 U	310 U	310 U	310 U
4-Bromophenyl phenyl ether	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
4-Chloro-3-Methylphenol	ug/kg 620 U	620 U	620 U	620 U	620 U
4-Chloroaniline	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
4-Chlorophenyl Phenyl Ether	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
4-Nitroaniline	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
4-Nitrophenol	ug/kg 620 U	620 U	620 U	620 U	620 U
Benzoic acid	ug/kg 1500 U	1500 U	1600 U	1500 U	1500 U
Benzyl alcohol	ug/kg 120 U	120 U	120 U	120 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
2-Chlorophenol	ug/kg 610 U	620 U	620 U	620 U
2-Methylphenol (o-Cresol)	ug/kg 610 U	620 U	620 U	620 U
2-Nitroaniline	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
2-Nitrophenol	ug/kg 310 U	310 U	310 U	310 U
3,3'-Dichlorobenzidine	ug/kg 150 U	150 U	160 U	150 U
3-Nitroaniline	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
4,6-Dinitro-2-Methylphenol	ug/kg 310 U	310 U	310 U	310 U
4-Bromophenyl phenyl ether	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
4-Chloro-3-Methylphenol	ug/kg 610 U	620 U	620 U	620 U
4-Chloroaniline	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
4-Chlorophenyl Phenyl Ether	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
4-Nitroaniline	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
4-Nitrophenol	ug/kg 610 U	620 U	620 U	620 U
Benzoic acid	ug/kg 1500 U	1500 U	1600 U	1500 U
Benzyl alcohol	ug/kg 120 U	120 U	120 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzyl butyl phthalate	ug/kg 120 U	120 U	120 U	130 U	120 U
bis(2-Chloroethoxy) Methane	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
Carbazole	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
Cresols, m & p	ug/kg 1100 U	1100 U	1100 U	1100 U	1100 U
Dibenzofuran	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
Diethyl Phthalate	ug/kg 120 U	120 U	120 U	130 U	120 U
Dimethyl Phthalate	ug/kg 120 U	120 U	120 U	130 U	120 U
Di-n-Butyl Phthalate	ug/kg 120 U	120 U	120 U	130 U	120 U
Di-n-Octylphthalate	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
Hexachlorobenzene	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
Hexachlorobutadiene	ug/kg 120 U	120 U	120 U	130 U	120 U
Hexachlorocyclopentadiene	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
Hexachloroethane	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
Isophorone	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Benzyl butyl phthalate	ug/kg 120 U	120 U	120 U	120 U	120 U
bis(2-Chloroethoxy) Methane	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
Carbazole	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
Cresols, m & p	ug/kg 1100 U	1100 U	1100 U	1100 U	1100 U
Dibenzofuran	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
Diethyl Phthalate	ug/kg 120 U	120 U	120 U	120 U	120 U
Dimethyl Phthalate	ug/kg 120 U	120 U	120 U	120 U	120 U
Di-n-Butyl Phthalate	ug/kg 120 U	120 U	120 U	120 U	120 U
Di-n-Octylphthalate	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
Hexachlorobenzene	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
Hexachlorobutadiene	ug/kg 120 U	120 U	120 U	120 U	120 U
Hexachlorocyclopentadiene	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
Hexachloroethane	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
Isophorone	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Benzyl butyl phthalate	ug/kg 120 U	120 U	120 U	120 U	120 U
bis(2-Chloroethoxy) Methane	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
Carbazole	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
Cresols, m & p	ug/kg 1100 U	1100 U	1100 U	1100 U	1100 U
Dibenzofuran	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
Diethyl Phthalate	ug/kg 120 U	120 U	120 U	120 U	120 U
Dimethyl Phthalate	ug/kg 120 U	120 U	120 U	120 U	120 U
Di-n-Butyl Phthalate	ug/kg 120 U	120 U	120 U	120 U	120 U
Di-n-Octylphthalate	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
Hexachlorobenzene	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
Hexachlorobutadiene	ug/kg 120 U	120 U	120 U	120 U	120 U
Hexachlorocyclopentadiene	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
Hexachloroethane	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
Isophorone	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
Benzyl butyl phthalate	ug/kg 120 U	120 U	120 U	120 U
bis(2-Chloroethoxy) Methane	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
Carbazole	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
Cresols, m & p	ug/kg 1100 U	1100 U	1100 U	1100 U
Dibenzofuran	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
Diethyl Phthalate	ug/kg 120 U	120 U	120 U	120 U
Dimethyl Phthalate	ug/kg 120 U	120 U	120 U	120 U
Di-n-Butyl Phthalate	ug/kg 120 U	120 U	120 U	120 U
Di-n-Octylphthalate	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
Hexachlorobenzene	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
Hexachlorobutadiene	ug/kg 120 U	120 U	120 U	120 U
Hexachlorocyclopentadiene	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
Hexachloroethane	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
Isophorone	ug/kg 61.0 U	62.0 U	62.0 U	62.0 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB	71-B5PS-DU1-SB	71-B5PS-DU1-SB1	71-B5PS-DU1-SB2	71-B5PS-DU1-SB3
Field Sample ID:	071SB-0001M-0001-SO	071SB-0002M-0001-SO	071SB-0003M-0001-SO	071SB-0004M-0001-SO	071SB-0005M-0001-SO
Lab Sample ID:	338286	338351	338353	338355	338357
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nitrobenzene	ug/kg 62.0 U	62.0 U	62.0 U	63.0 U	62.0 U
n-Nitrosodi-n-propylamine	ug/kg 120 U	120 U	120 U	130 U	120 U
n-Nitrosodiphenylamine	ug/kg 120 U	120 U	120 U	130 U	120 U
Pentachlorophenol	ug/kg 310 U	310 U	310 U	310 U	310 U
Phenol	ug/kg 310 U	310 U	310 U	310 U	310 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB4	71-B5PS-DU1-SB5	71-B5PS-DU1-SB6	71-B5PS-DU1-SB7	71-B5PS-DU1-SB8
Field Sample ID:	071SB-0006M-0001-SO	071SB-0007M-0001-SO	071SB-0009M-0001-SO	071SB-0010M-0001-SO	071SB-0011M-0001-SO
Lab Sample ID:	338359	338363	338367	338369	338371
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:					
Analysis Information:	1X	1X	1X	1X	1X
Nitrobenzene	ug/kg 62.0 U	62.0 U	61.0 U	61.0 U	62.0 U
n-Nitrosodi-n-propylamine	ug/kg 120 U	120 U	120 U	120 U	120 U
n-Nitrosodiphenylamine	ug/kg 120 U	120 U	120 U	120 U	120 U
Pentachlorophenol	ug/kg 310 U	310 U	310 U	310 U	310 U
Phenol	ug/kg 310 U	310 U	310 U	310 U	310 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5PS-DU1-SB9	71-B5S-DU1-SB10	71-B5S-DU1-SB11
Field Sample ID:	071SB-0013M-0001-SO	071SB-0014M-0001-SO	071SB-0023-0001-SO	071SB-0016M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338377	338381	338407	338361	338375
Lab Name:	CTLB	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate			
Analysis Information:	1X	1X	1X	1X	1X
Nitrobenzene	ug/kg 62.0 U	62.0 U	62.0 U	62.0 U	62.0 U
n-Nitrosodi-n-propylamine	ug/kg 120 U	120 U	120 U	120 U	120 U
n-Nitrosodiphenylamine	ug/kg 120 U	120 U	120 U	120 U	120 U
Pentachlorophenol	ug/kg 310 U	310 U	310 U	310 U	310 U
Phenol	ug/kg 310 U	310 U	310 U	310 U	310 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5S-DU1-SB12	71-B5S-DU1-SB12	71-B5S-DU1-SB13	71-B5S-DU1-SB14
Field Sample ID:	071SB-0018M-0001-SO	071SB-0019M-0001-SO	071SB-0021M-0001-SO	071SB-0022M-0001-SO
Lab Sample ID:	338379	338383	338373	338387
Lab Name:	CTLB	CTLB	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Field QC:		Field Duplicate		
Analysis Information:	1X	1X	1X	1X
Nitrobenzene	ug/kg 61.0 U	62.0 U	62.0 U	62.0 U
n-Nitrosodi-n-propylamine	ug/kg 120 U	120 U	120 U	120 U
n-Nitrosodiphenylamine	ug/kg 120 U	120 U	120 U	120 U
Pentachlorophenol	ug/kg 310 U	310 U	310 U	310 U
Phenol	ug/kg 310 U	310 U	310 U	310 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB7	71-B5S-DU1-SB11
Field Sample ID:	071SB-0010M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338369	338375
Lab Name:	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013
Field QC:		
Analysis Information:	1X	1X

Nitroaromatics and Nitramines by HPLC **Units**

NITROGUANIDINE	mg/kg	0.120 UJ	0.120 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:	71-B5PS-DU1-SB7	71-B5S-DU1-SB11
Field Sample ID:	071SB-0010M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:	338369	338375
Lab Name:	CTLB	CTLB
Sample Date:	8/13/2013	8/13/2013
Field QC:		
Analysis Information:	1X	1X

Nitroaromatics and Nitramines by HPLC

	Units		
1,3,5-Trinitrobenzene	mg/kg	0.300 U	0.300 U
1,3-Dinitrobenzene	mg/kg	0.200 U	0.200 U
2,4,6-Trinitrotoluene	mg/kg	0.200 U	0.200 U
2,4-Dinitrotoluene	mg/kg	0.200 U	0.200 U
2,6-Dinitrotoluene	mg/kg	0.200 U	0.200 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.200 U	0.200 U
2-Nitrotoluene	mg/kg	0.200 UJ	0.200 UJ
3,5-Dinitroaniline	mg/kg	0.200 U	0.200 U
3-Nitrotoluene	mg/kg	0.300 U	0.300 U
4-Amino-2,6-Dinitrotoluene	mg/kg	0.200 UJ	0.200 UJ
4-Nitrotoluene	mg/kg	0.200 U	0.200 U
Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	mg/kg	0.300 U	0.300 U
Nitrobenzene	mg/kg	0.200 U	0.200 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter

Chemistry Results

Chemistry Results

Ravenna Army Ammunition Plant

RVAAP, QAPP Oct. 2012

Summer 2013 RI/SI Sampling Event Sampling Event

Site Name: Site 71

Location ID:		71-B5PS-DU1-SB7	71-B5S-DU1-SB11
Field Sample ID:		071SB-0010M-0001-SO	071SB-0017M-0001-SO
Lab Sample ID:		338369	338375
Lab Name:		CTLB	CTLB
Sample Date:		8/13/2013	8/13/2013
Field QC:			
Analysis Information:		1X	1X
Nitroglycerin	mg/kg	1.20 UJ	1.20 UJ
Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine (HMX)	mg/kg	0.300 U	0.300 U
Pentaerythritol Tetranitrate	mg/kg	1.20 U	1.20 U
Tetryl	mg/kg	0.200 UJ	0.200 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

CTLB = CT LABS., BARABOO, WI

MG/KG = Milligrams per Kilogram

PERCENT = PERCENT

UG/KG = Micrograms per Kilogram

UG/L = Micrograms per Liter