

Field Sampling Report

Location ID: LL8SW-010-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/09/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	<input checked="" type="checkbox"/> Scoop
	Pump	Bacon Bomb	Bowl
			Hand Auger
Type/Construction			Push Probe
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1570 hrs

Sample Type: Composite - MI - Grab
If MI, # of increments taken:

Location: Plotted on Map Staked in Field
Estimated - Measured - Surveyed

Sample Depth: Surface FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC <input checked="" type="checkbox"/>	Corrosivity
Background: ppm	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide
<u>D.O. 8.58 mg/L</u>	Explosives <input checked="" type="checkbox"/>	Ignitability
Sample: ppm	Chromium +6	
Water Level FT	Propellants	
Temperature <u>8.4</u> °C	TAL Metals <input checked="" type="checkbox"/>	QA Samples
Sp. Conductance: <u>0.307</u> uMHOs	Pesticides/PCBs <input checked="" type="checkbox"/>	MS/MSD Yes / No NA
pH <u>7.25</u> units	Cyanides	Duplicate ID NA
Turbidity <u>0</u> N.T.U.	TOC	Equipment Rinse ID NA
	Grain Size	Tap Blank ID <u>Trip Blank</u> NA

Sample Description

Clear, NO odor, NO Sheen
low turbidity

Split Sample

Split Sample ID: _____
Name: _____
Agency/Company: _____
Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: James Panozzo (Please Print)

Reviewed by: EDY ELIS (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 2/3/05

Location ID: LL8SW-011-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/9/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	X Scoop
	Pump	Bacon Bomb	Bowl
		<u>peristaltic pump</u>	X Push Probe
Type/Construction			
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1415 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: Surface FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings: Background: ppm	VOC	X	TPH GRO		Corrosivity		
	SVOC	X	TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6		Ignitability		
Sample: <u>D.O. 6.91mg/L</u> ppm	Propellants		Nitrate	X			
Water Level FT	TAL Metals	X			QA Samples		
Temperature <u>8.2</u> °C	Pesticides/PCBs	X			MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.206</u> uMfOs	Cyanides				Duplicate ID		NA
pH <u>7.10</u> units	TOC				Equipment Rinse ID		NA
Turbidity <u>78.5</u> N.T.U.	Grain Size				<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description

clear, No odor, No sheen
Low turbidity

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: James Panozzo (Please Print) Reviewed by: ERIC EWS (Please Print)

Signature: [Signature] Signature: [Signature] Date: 2/3/05

Field Sampling Report

Location ID: LL8SW-012-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11-08-04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	X	Scoop	Trowel
	Pump	Bacon Bomb		Bowl	Hand Auger
				Push Probe	Plastic Liner
Type/Construction		<u>DECON FILE</u>		Mattocks	
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 0915 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: Surface FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC	X	TPH GRO		Corrosivity	
	SVOC	X	TPH DRO		Reactivity Sulfide/Cyanide	
	Explosives	X	Chromium +6		Ignitability	
Sample: ppm	Propellants		Nitrate	X		
Water Level: <u>2</u> FT	TAL Metals	X			QA Samples	
Temperature: <u>6.6</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.29</u> uMHOs	Cyanides			Duplicate ID		NA
pH: <u>5.52</u> units	TOC			Equipment Rinse ID		NA
Turbidity: <u>10</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

DO 7.22 Sample Description

no odor, no skin

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: Shannon (Please Print)

Signature: [Signature]

Reviewed by: ERIC EWS (Please Print)

Signature: [Signature] Date: 2/4/05

Field Sampling Report

Location ID: LL8SW-013-SW Aug 04

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11-08-04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	<input checked="" type="checkbox"/>	Scoop
	Pump	Bacon Bomb		Bowl
				Hand Auger
Type/Construction		Direct Fill		Push Probe
Miscellaneous	Well Purging Form Yes - No			Plastic Liner
				Mattocks

Sample Collection: 1000 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
If MI, # of increments taken: _____ Estimated - Measured - Surveyed

Sample Depth: 1 FT (below surface) Decon: Dedicated Each Day - Each Location

Field Parameters <small>(at time of sample)</small>	Analytical Parameters			Other Parameters	
PID / FID Readings: Background: ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity	
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability	
Sample: ppm	Propellants		Nitrate	<input checked="" type="checkbox"/>	
Water Level: 1 FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples	
Temperature: 6.9 °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No (NA)
Sp. Conductance: 0.27 uMHOs	Cyanides			<u>Duplicate ID</u>	<u>LL8SW-013-DUPNA</u>
pH: 7.16 units	TOC			Equipment Rinse ID	(NA)
Turbidity: 10 N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>TRIP BLANK</u> NA

DO: 7.48 Sample Description

NO odor, stain in some locations

Split Sample ID: LL8SW-013-SW Split Sample

Name: John Jan

Agency/Company: USACE - Louisville

Address: 600 DE MARTIN WATER KING JR PLAZA
LOUISVILLE KY 40202

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: Shahram (Please Print) Reviewed by: ERIC ELLIS (Please Print)

Signature: [Signature] Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: LL88W-014-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/02/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	X	Scoop	Trowel
	Pump	Bacon Bomb		Bowl	Hand Auger
				Push Probe	Plastic Liner
Type/Construction				Mattocks	
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1515 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: Surface FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings: Background: ppm	VOC	X	TPH GRO		Corrosivity		
	SVOC	X	TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6		Ignitability		
Sample: ppm	Propellants	X	Nitrate	X			
Water Level: <u>1.5</u> FT	TAL Metals	X			QA Samples		
Temperature: <u>16.30</u> °C	Pesticides/PCBs	X			MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.290</u> uMHOs	Cyanides				Duplicate ID		NA
pH: <u>6.5</u> units	TOC				Equipment Rinse ID		NA
Turbidity: <u>765</u> N.T.U.	Grain Size				<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description
Not clear, No odor, No sheen
Highly turbid

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: Sudheer Gubba (Please Print) Reviewed by: ERIC ELIUS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/4/05

Field Sampling Report

Location ID: LL8SW-015-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/02/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	X	Scoop	Trowel
	Pump	Bacon Bomb		Bowl	Hand Auger
Type/Construction				Push Probe	Plastic Liner
Miscellaneous	Well Purging Form Yes - No			Mattocks	

Sample Collection: 1455 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 Sample Depth: Surface FT (below surface) If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC	X	TPH GRO	Corrosivity		
	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6	Ignitability		
Sample: _____ ppm	Propellants		Nitrate	X		
Water Level: <u>0.5</u> FT	TAL Metals	X		QA Samples		
Temperature: <u>15.7</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.215</u> uMHOs	Cyanides			Duplicate ID		NA
pH: <u>6.00</u> units	TOC			Equipment Rinse ID		NA
Turbidity: <u>41.7</u> N.T.U.	Grain Size			Trip Blank ID	<u>Trip Blank</u>	NA

Sample Description
Not clear, No odor, No sheen, Highly turbid
VOC Bottles Had Bubbles, Needs
Resampled

*Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
 Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: Sudheer Gubba (Please Print) Reviewed by: ERIC EWIS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/4/05

Field Sampling Report

Location ID: 48SW-015-SW VOC Resample

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 03 Nov 04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction		Direct Fill	Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1340 hrs

Sample Type: Composite - MI Grab
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0.2 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings: Background: ppm	VOC <u>X</u>	Corrosivity
	SVOC	Reactivity Sulfide/Cyanide
	Explosives	Ignitability
Sample: ppm	Propellants	
	Nitrate	
Water Level: FT	TAL Metals	QA Samples
Temperature: °C	Pesticides/PCBs	MS/MSD Yes / No NA
Sp. Conductance: uMHOs	Cyanides	Duplicate ID NA
pH: units	TOC	Equipment Rinse ID NA
Turbidity: N.T.U.	Grain Size	<u>Trip Blank ID</u> <u>Trip Blank</u> NA

Sample Description

Clear No Odor No Sheen Low Turb.

(RESAMPLE VOC)

Split Sample

Split Sample ID:

Name:
Agency/Company:
Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Mark Dunkley (Please Print)

Reviewed by: ERIC EWIS (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 2/4/05

Location ID: LL8SW-016-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 02-Nov-04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	<input checked="" type="checkbox"/> Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 11:10 hrs Sample Type: Composite - MI Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Sample Depth: Surface FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters		Other Parameters	
PID / FID Readings: Background: _____ ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	<input checked="" type="checkbox"/>
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	<input checked="" type="checkbox"/>
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	<input checked="" type="checkbox"/>
Sample: _____ ppm	Propellants		Nitrate	<input checked="" type="checkbox"/>
Water Level <u>1.0</u> FT	TAL Metals	<input checked="" type="checkbox"/>	QA Samples MS/MSD Yes / No <u>NA</u> Duplicate ID <u>NA</u> Equipment Rinse ID <u>NA</u> Trip/Blank ID <u>Trip Blank</u> <u>NA</u>	
Temperature <u>0.9</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		
Sp. Conductance: <u>0.115</u> uMHOs	Cyanides			
pH <u>8.84</u> units	TOC			
Turbidity <u>10</u> N.T.U.	Grain Size			

Sample Description

Clear, No Odor, No Sheen,
Very low Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor, Sheen, Turbidity

Logged By: Michael Samelak (Please Print)

Reviewed by: ERIC EWS (Please Print)

Signature: Michael Samelak

Signature: Eric EWS Date: 2/4/05

Field Sampling Report

Location ID: LL8SW-017-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 05 Nov 04

Sampling Information

Source	Groundwater / Product	<u>Surface Water</u>	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input checked="" type="checkbox"/> Trowel
	Pump	Bacon Bomb	Bowl Hand Auger
			Push Probe
Type/Construction	<u>Direct Fill</u>		
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1320 hrs

Sample Type: Composite/(MI) Grab
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-0.5 FT (below surface)

Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings: Background: ppm	VOC <input checked="" type="checkbox"/>	Corrosivity
	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide
	Explosives <input checked="" type="checkbox"/>	Ignitability
Sample: ppm	Propellants <input checked="" type="checkbox"/> Nitrate <input checked="" type="checkbox"/>	
Water Level: FT	TAL Metals <input checked="" type="checkbox"/>	QA Samples
Temperature: <u>12.5</u> °C	Pesticides/PCBs <input checked="" type="checkbox"/>	MS/MSD Yes / No NA
Sp. Conductance: <u>0.259</u> mS/cm ^{uMHOs}	Cyanides	Duplicate ID NA
pH: <u>7.05</u> units	TOC	Equipment Rinse ID NA
Turbidity: <u>9</u> N.T.U.	Grain Size	<u>Trip Blank ID</u> <u>Trip Blank</u> NA

Sample Description

Clear No Sheen No Odor No/Low Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Mark Dunlop (Please Print)

Reviewed by: ERIC GUIS (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 2/4/05

Field Sampling Report

Location ID: LL85W - 018 - SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/19/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop <input type="checkbox"/> Trowel <input type="checkbox"/>
	Pump	Bacon Bomb	Bowl <input type="checkbox"/> Hand Auger <input type="checkbox"/>
		<u>SCOOP</u> ✓	Push Probe <input type="checkbox"/> Plastic Liner <input type="checkbox"/>
Type/Construction			Mattocks <input type="checkbox"/>
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 0955 hrs
 Sample Type: Composite - MI - Grab
 Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____
 Estimated - Measured - Surveyed

Sample Depth: SURFACE FT (below surface)
 Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID/ FID Readings: Background: _____ ppm	VOC	✓	TPH GRO	Corrosivity		
	SVOC	✓	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	✓	Chromium +6	Ignitability		
Sample: _____ ppm	Propellants		Nitrate	✓		
Water Level: <u>4.0</u> FT	TAL Metals	✓		QA Samples		
Temperature: <u>3.8</u> °C	Pesticides/PCBs	✓		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.393</u> uMHOs	Cyanides			Duplicate ID		NA
pH: <u>8.46</u> units	TOC			Equipment Rinse ID		NA
Turbidity: <u>18</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description
CLEAR, NO ODOR, NO SHEEN, NO TURBIDITY

Split Sample

Split Sample ID: _____

Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print)
 Reviewed by: ERIC EWS (Please Print)

Signature: [Signature]
 Signature: [Signature]
 Date: 2/4/05

Field Sampling Report

Location ID: LL85W - 019 - SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/19/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
Type/Construction		TEFLON SCOOP	Hand Auger
Miscellaneous	Well Purging Form Yes - No		Plastic Liner
			Push Probe
			Mattocks

Sample Collection: 1020 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - ~~Surveyed~~
 Sample Depth: SURFACE FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	✓	TPH GRO	Corrosivity		
Background: ppm	SVOC	✓	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	✓	Chromium +6	Ignitability		
Sample: ppm	Propellants		Nitrate			
Water Level <u>6.5</u> FT	TAL Metals	✓		QA Samples		
Temperature <u>2.5</u> °C	Pesticides/PCBs	✓		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.296</u> uMHOs	Cyanides			Duplicate ID		NA
pH <u>9.03</u> units	TOC			Equipment Rinse ID		NA
Turbidity <u>2</u> NTU	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description

CLEAR, NO ODOR, NO SHEEN, NO TURBIDITY

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print) Reviewed by: ERIC ELLIS (Please Print)

Signature: N. Shringarpure Signature: ERIC ELLIS Date: 2/4/05

Field Sampling Report

Location ID: L10SW-001-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/07/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Hand Auger
			Push Probe
			Plastic Liner
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: _____ hrs

Sample Type: Composite - MI - Grab
If MI, # of increments taken: _____

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: _____ FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters
(at time of sample)

Analytical Parameters

Other Parameters

PID / FID Readings: Background:	ppm	VOC	TPH GRO	Corrosivity	
		SVOC	TPH DRO	Reactivity Sulfide/Cyanide	
		Explosives	Chromium +6	Ignitability	
Sample:	ppm	Propellants	Nitrate		
Water Level	FT	TAL Metals		QA Samples	
Temperature	°C	Pesticides/PCBs		MS/MSD	Yes / No NA
Sp. Conductance:	µMHOs	Cyanides		Duplicate ID	NA
pH	units	TOC		Equipment Rinse ID	NA
Turbidity	N.T.U.	Grain Size		Trip Blank ID	NA

Sample Description

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MSMSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

*No SW present.
No sample collected*

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Logged By: James Panozzo (Please Print)

Signature: [Handwritten Signature]

Reviewed by: ERIC JEWIS (Please Print)

Signature: [Handwritten Signature] Date: 2/6/05

Field Sampling Report

Location ID: L10sw-002-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/15/04

Sampling Information

Source	Groundwater / Product	Sewer Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
Type/Construction		<u>PERISTALTIC PUMP</u>	Push Probe
Miscellaneous	Well Purging Form Yes - No		Plastic Liner

Sample Collection: 0915 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken Estimated - Measured - Surveyed

Sample Depth: 9.07 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters
PID / FID Readings: Background: ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability
Sample: ppm	<u>Propellants</u>	<input checked="" type="checkbox"/> <u>FREE</u>	Nitrate	<input checked="" type="checkbox"/> <u>FREE</u>
Water Level: FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples
Temperature: <u>6.9</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD: <u>Yes</u> / No NA
Sp. Conductance: <u>0.12</u> uMHos	Cyanides	<input checked="" type="checkbox"/>		Duplicate ID: <u>L10sw-002-DUP</u> NA
pH: <u>5.87</u> units	TOC			Equipment Rinse ID: <u>NA</u>
Turbidity: <u>149</u> N.T.U.	Grain Size			<u>Trip Blank ID</u> <u>Trip Blank</u> <u>NA</u>

DC 8.36 mg/L Sample Description
clear water, no sheen or odor, low turbidity

Split Sample
 Split Sample ID: L10sw-002-SW

Name: JOHN JENT - (CERCL-PL-ED)
 Agency/Company: USACE - LOUISVILLE
 Address: 600 PL MARTIN WHITE KING DR PLAZA
LOUISVILLE KY 40202

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print) Reviewed by: ERIC ELLIS (Please Print)
 Signature: N Shringarpure Signature: ERIC ELLIS Date: 2/6/05

Location ID: L10 SW-003-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/07/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Hand Auger
Type/Construction			Push Probe
Miscellaneous	Well Purging Form Yes - No		Plastic Liner
			Mattocks

Sample Collection: _____ hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Sample Depth: _____ FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC		TPH GRO	Corrosivity		
	SVOC		TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6	Ignitability		
Sample: ppm	Propellants		Nitrate			
Water Level: FT	TAL Metals			QA Samples		
Temperature: °C	Pesticides/PCBs			MS/MSD	Yes / No	NA
Sp. Conductance: uMHOs	Cyanides			Duplicate ID		NA
pH: units	TOC			Equipment Rinse ID		NA
Turbidity: N.T.U.	Grain Size			Trip Blank ID		NA

Sample Description

*No SW present
 No sample collected*

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: James D'Amico (Please Print)

Reviewed by: ERIC EWIS (Please Print)

Signature: *James D'Amico*

Signature: *[Signature]* Date: 2/6/05

Location ID: L10SW-004-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/14/04

Sampling Information

Source	Groundwater / Product		Sewer	Surface Water	Soils / Sediments / Sludge		
Method	Bailer		Sample Bottle	X	Scoop		Trowel
	Pump		Bacon Bomb		Bowl		Hand Auger
					Push Probe		Plastic Liner
Type/Construction					Mattocks		
Miscellaneous	Well Purging Form Yes - No						

Sample Collection: 1325 hrs

Sample Type: Composite - MI - Grab
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 9.10" FT (below surface)

Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID / FID Readings: Background: ppm	VOC	X	TPH GRO		Corrosivity		
	SVOC	X	TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6		Ignitability		
Sample: ppm	Propellants		Nitrate	X			
	Water Level: FT	TAL Metals	X		QA Samples		
Temperature: 6.9 °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA	
Sp. Conductance: 0.305 uMHOs	Cyanides	X		Duplicate ID		NA	
pH: 7.52 units	TOC			Equipment Rinse ID		NA	
Turbidity: 10 N.T.U.	Grain Size			Trip Blank ID	<u>Trip Blank</u>	NA	

Sample Description
Clear water, no sheen, no odor

DO: 9.12

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: James Kanorro (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 02/23/05

Field Sampling Report

Location ID: L10 SW-005-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/07/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: _____ hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Sample Depth: _____ FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters				Other Parameters		
PID/ FID Readings: Background: ppm	VOC		TPH GRO		Corrosivity		
	SVOC		TPH DRO		Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6		Ignitability		
Sample: ppm	Propellants		Nitrate				
Water Level: FT	TAL Metals				QA Samples		
Temperature: °C	Pesticides/PCBs			MS/MSD	Yes / No	NA	
Sp. Conductance: µMHOs	Cyanides			Duplicate ID		NA	
pH: units	TOC			Equipment Rinse ID		NA	
Turbidity: N.T.U.	Grain Size			Trip Blank ID		NA	

Sample Description

No SW present
No sample collected

Split Sample

Split Sample ID:
Name:
Agency/Company:
Address:

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: James Fanorzo (Please Print)

Signature: *James Fanorzo*

Reviewed by: ERICEWS (Please Print)

Signature: *ERICEWS*

Date: 2/6/05

Location ID: 92 L105W-006-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/15/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
		<u>Resistive Pump</u> X	Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 11:20 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: 7.09 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC	X	TPH GRO	Corrosivity		
	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6	Ignitability		
Sample: _____ ppm	Propellants		Nitrate <u>PRE</u>	X		
Water Level <u>7.09</u> FT	TAL Metals	X		QA Samples		
Temperature <u>6.3</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.111</u> uMHOs	Cyanides	X		Duplicate ID		NA
pH <u>6.58</u> units	TOC			Equipment Rinse ID		NA
Turbidity <u>2.0</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description
DO = 9.37
clear water, low turbidity,
no odor, no sheen

Split Sample
 Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

 QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: Svetlana Subba (Please Print) Reviewed by: ERIC FEWIS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/6/05

Field Sampling Report

Location ID: L05W-007-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/14/04

Sampling Information

Source	Groundwater / Product	SEWER Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	<input checked="" type="checkbox"/>	Scoop	Trowel
	Pump	Bacon Bomb		Bowl	Hand Auger
		PERISTALTIC PUMP	<input checked="" type="checkbox"/>	Push Probe	Plastic Liner
Type/Construction				Mattocks	
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 10:50 hrs

Sample Type: Composite - MI - Grab
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 6.04 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO		Corrosivity	
	SVOC	<input checked="" type="checkbox"/>	TPH DRO		Reactivity Sulfide/Cyanide	
	Explosives	<input checked="" type="checkbox"/>	Chromium +6		Ignitability	
Sample: _____ ppm	Propellants	<input checked="" type="checkbox"/>	Nitrate	NO		
Water Level _____ FT	TAL Metals	<input checked="" type="checkbox"/>			QA Samples	
Temperature <u>7.8</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.259</u> uMHOs	Cyanides	<input checked="" type="checkbox"/>		Duplicate ID		NA
pH <u>7.25</u> units	TOC			Equipment Rinse ID		NA
Turbidity <u>10</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

00
10:13 Sample Description:
Clear water, no odor, no sheen

Split-Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPORE (Please Print)

Signature: NShringarpore

Reviewed by: ERIC FUS (Please Print)

Signature: EFUS Date: 2/7/05

Field Sampling Report

Location ID: L105W-008-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/14/04

Sampling Information

Source	Groundwater / Product	SEWER Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
		PERISTALTIC PUMP	Push Probe
Type/Construction			
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 0945 hrs

Sample Type: Composite/(MI) Grab
If MI, # of increments taken:

Location: Plotted on Map Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 10-04 FT (below surface)

Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings: Background: ppm	VOC <input checked="" type="checkbox"/>	Corrosivity
	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide
	Explosives <input checked="" type="checkbox"/>	Ignitability
Sample: ppm	TPH GRO	
	TPH DRO	
	Chromium +6	
	Propellants NO	
	Nitrate NO	
Water Level: FT	TAL Metals <input checked="" type="checkbox"/>	QA Samples
Temperature: <u>9.57</u> °C	Pesticides/PCBs <input checked="" type="checkbox"/>	MS/MSD Yes / No NA
Sp. Conductance: <u>0.296</u> uMHOs	Cyanides <input checked="" type="checkbox"/>	Duplicate ID NA
pH: <u>7.03</u> units	TOC	Equipment Rinse ID NA
Turbidity: <u>10</u> N.T.U.	Grain Size	<u>Trip Blank ID</u> <u>Trip Blank</u> NA

DO NO ODOR 10.4 mg/L Sample Description
NO SHEEN
CLEAR WATER WITH A PALE YELLOW TINGE

Split Sample

Split Sample ID: _____
Name: _____
Agency/Company: _____
Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: NILESH SHRINARPORE (Please Print)

Reviewed by: ERIC ELLIS (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 2/7/05

Location ID: L10SW-009-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/14^{NS}/08/04

Sampling Information

Source	Groundwater / Product	SEWER Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
		PERISTALTIC PUMP	Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 0910 hrs

Sample Type: Composite - MI Grab
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 13.0 FT (below surface)

Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC	✓	TPH GRO	Corrosivity		
	SVOC	✓	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	✓	Chromium +6	Ignitability		
Sample: ppm	Propellants	✓	Nitrate			
Water Level: FT	TAL Metals	✓		QA Samples		
Temperature: 5.5 °C	Pesticides/PCBs	✓		MS/MSD	Yes / No	NA
Sp. Conductance: 0.348 uMHOs	Cyanides	✓		Duplicate ID		NA
pH: 6.44 units	TOC			Equipment Rinse ID		NA
Turbidity: 10 N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

DO: 3.36
 Sample Description:
NO ODDR, NO SHEEN, CLEAR WATER

Split Sample
 Split Sample ID:
 Name:
 Agency/Company:
 Address:
 QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print)
 Signature: N. Shringarpure

Reviewed by: ERIC ELLIS (Please Print)
 Signature: Eric Ellis Date: 2/7/05

Field Sampling Report

Location ID: L10SW-010-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/07/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop		Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
			Push Probe		Plastic Liner
Type/Construction			Mattocks		
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: _____ hrs
 Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____
 Location: Plotted on Map - Staked in Field
 Estimated - Measured - Surveyed
Sample Depth: _____ FT (below surface)
 Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC		TPH GRO	Corrosivity		
	SVOC		TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6	Ignitability		
Sample: _____ ppm	Propellants		Nitrate			
Water Level	FT	TAL Metals		QA Samples		
Temperature	°C	Pesticides/PCBs		MS/MSD	Yes / No	NA
Sp. Conductance:	µMHOs	Cyanides		Duplicate ID		NA
pH	units	TOC		Equipment Rinse ID		NA
Turbidity	N.T.U.	Grain Size		Trip Blank ID		NA

Sample Description

NO WATER
NO SAMPLE

Split Sample

Split Sample ID: _____

Name: _____
Agency/Company: _____
Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: James Panozzo (Please Print)

Signature:

Reviewed by: ERIC FUIS (Please Print)

Signature: Date: 2/7/05

Field Sampling Report

Location ID: L10500-011-500

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 23 Nov 04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	Plastic Liner
Type/Construction		<u>Teflon Bark</u> <input checked="" type="checkbox"/>	Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1005 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Skiked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: ~4.4 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity		
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability		
Sample: _____ ppm	Propellants		Nitrate			
Water Level <u>~ 4</u> FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples		
Temperature <u>10.0</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.187</u> µmhos/cm	Cyanides	<input checked="" type="checkbox"/>		Duplicate ID		NA
pH <u>7.07</u> units	TOC			Equipment Rinse ID		NA
Turbidity <u>1.0</u> N.T.U.	Grain Size			Trip Blank ID	<u>Trip Blank</u>	NA

Sample Description

Clear No Odor No Sheen Low Turb.

No Sediment in Bottom of Sump

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - AS Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Mark Dunleavy (Please Print) Reviewed by: SP6 EWS (Please Print)

Signature: [Signature] Signature: [Signature] Date: 2/7/05

Field Sampling Report

Location ID: L105W-012-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 23 Nov 04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop		Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
Type/Construction		<u>Teflon Bailer</u> X	Push Probe		Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks		

Sample Collection: 1025 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: Estimated - Measured - Surveyed
 Sample Depth: ~4ft FT (below surface) Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC	X	TPH GRO	Corrosivity		
	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
Sample: ppm	Explosives	X	Chromium +6	Ignitability		
	Propellants		Nitrate			
Water Level: <u>~3.5</u> FT	TAL Metals	X		QA Samples		
Temperature: <u>9.1</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.175</u> <small>µmhos/cm</small>	Cyanides	X		Duplicate ID		NA
pH: <u>6.44</u> units	TOC			Equipment Rinse ID		NA
Turbidity: <u>7.0</u> N.T.U.	Grain Size			<u>Trip Blank ID</u> <u>Trip Blank</u>		NA

Sample Description

Clear No odor No sheen Low Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Mark Dunlavy (Please Print) Reviewed by: ERIC ELLIS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/7/05

Field Sampling Report

Location ID: L105W-013-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/23/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: _____ hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed

Sample Depth: _____ FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters	
PID / FID Readings: Background: ppm	VOC	TPH GRO	
	SVOC	TPH DRO	
	Explosives	Chromium +6	
Sample: ppm	Propellants	Nitrate	
Water Level: FT	TAL Metals	QA Samples	
Temperature: °C	Pesticides/PCBs		MS/MSD Yes / No NA
Sp. Conductance: uMHOs	Cyanides		Duplicate ID NA
pH: units	TOC		Equipment Rinse ID NA
Turbidity: N.T.U.	Grain Size		Trip Blank ID NA

Sample Description

Photo documented condition of buildings attached to PE-3 where grease trap was supposedly located. Unsafe to enter bldg.

Sample supposed to be collected from a grease trap in or near bldg PE3. Grease trap could not be located. No Sample Collected

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: James Panozzo (Please Print)

Reviewed by: Sue Boles (Please Print)

Signature: *[Handwritten Signature]*

Signature: Sue Boles Date: 11/23/05

Field Sampling Report

Location ID: L10 SW-014-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 23 Nov 04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
		<u>Teflon Bailer</u>	<u>X</u>
Type/Construction			Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks

Sample Collection: 0970 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: ~4 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters
PID / FID Readings: Background: _____ ppm	VOC	<u>X</u>	TPH GRO	Corrosivity
	SVOC	<u>X</u>	TPH DRO	Reactivity Sulfide/Cyanide
	Explosives	<u>X</u>	Chromium +6	Ignitability
Sample: _____ ppm	Propellants		Nitrate	
Water Level: <u>~4</u> FT	TAL Metals	<u>X</u>		QA Samples
Temperature: <u>9°</u> °C	Pesticides/PCBs	<u>X</u>		MS/MSD Yes / No NA
Sp. Conductance: <u>0.212</u> <u>50</u> µMHOs	Cyanides	<u>X</u>		Duplicate ID NA
pH: <u>6.55</u> units	TOC			Equipment Rinse ID NA
Turbidity: <u>0.0</u> N.T.U.	Grain Size			<u>Trip Blank ID</u> <u>Trip Blank</u> NA

Sample Description

Clear No Odor No Sheen Turbidity Low
No sediment at bottom of sump

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Mark Dunley (Please Print)

Signature: [Signature]

Reviewed by: ERIC EUS (Please Print)

Signature: [Signature] Date: 2/7/05

Field Sampling Report

Location ID: L10 SW-015-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/23/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	<input checked="" type="checkbox"/>	Scoop	Trowel
	Pump	Bacon Bomb	<input type="checkbox"/>	Bowl	Hand Auger
		<u>TRIP BAILER</u>	<input checked="" type="checkbox"/>	Push Probe	Plastic Liner
Type/Construction				Mattocks	
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: OS&H hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: ≈ 3 ft FT (below surface) Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity		
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability		
Sample: _____ ppm	Propellants		Nitrate			
Water Level <u>≈ 3-4</u> FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples		
Temperature <u>8.4</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.104</u> μ S/cm	Cyanides	<input checked="" type="checkbox"/>		Duplicate ID		NA
pH <u>6.31</u> units	TOC			Equipment Rinse ID		NA
Turbidity <u>0.0</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description

CLEAR
NO ODOR
NO SHEEN
NO TURBIDITY

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: ERIC EWIS (Please Print)

Signature: [Signature]

Reviewed by: Sue Boles (Please Print)

Signature: [Signature] Date: 02/23/05

Field Sampling Report

Location ID: KL10SW-016-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/01/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
		BAILER (TEFLON)	Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1445 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: SURFACE FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters	
PID / FID Readings: Background: _____ ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity	
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide	<input checked="" type="checkbox"/>
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability	
Sample: _____ ppm	Propellants	<input checked="" type="checkbox"/>	Nitrate		
Water Level = <u>3.5</u> FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples	
Temperature <u>32</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No NA
Sp. Conductance: <u>0.080</u> <u>51</u> $\mu\text{mhos/cm}$	Cyanides	<input checked="" type="checkbox"/>		Duplicate ID	NA
pH <u>6.55</u> units	TOC			Equipment Rinse ID	NA
Turbidity <u>2.0</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u> NA

Sample Description

NO COLOR, NO ODOR, NO SHEEN

Split Sample

Split Sample ID: _____

Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicates - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print)

Reviewed by: ERIC ELMS (Please Print)

Signature: N. Shringarpure

Signature: Eric Elms Date: 2/7/05

Location ID: L10SW-017-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/23/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle <input checked="" type="checkbox"/>	Scoop
	Pump	Bacon Bomb	Bowl
Type/Construction		Teflon Bailer <input checked="" type="checkbox"/>	Hand Auger
Miscellaneous	Well Purging Form Yes - No		Push Probe

Sample Collection: 1000 hrs

Sample Type: Composite - MI - Grab
If MI, # of increments taken: _____

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-4 FT (below surface)

Decon: Dedicated Each Day - Each Location

Field Parameters (at time of sample)

Analytical Parameters

Other Parameters

PID / FID Readings:

Background: _____ ppm

VOC TPH GRO

SVOC TPH DRO

Explosives Chromium +6

Sample: _____ ppm

Propellants Nitrate

Water Level 4.0 FT

TAL Metals

Temperature 7.4 °C

Pesticides/PCBs

Sp. Conductance: 0.057 uMHOs

Cyanides

pH 6.36 units

TOC

Turbidity 3.0 N.T.U.

Grain Size

QA Samples

MS/MSD Yes / No NA

Duplicate ID NA

Equipment Rinse ID NA

Trip Blank ID Trip Blank NA

Sample Description

Split Sample

No color, NO odor, NO sheen
Low Turbidity

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: James Panozzo (Please Print)

Reviewed by: ERIC FLEIS (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 2/3/05

Location ID: L105W-018-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/23/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle <input checked="" type="checkbox"/>	Scoop
	Pump	Bacon Bomb	Bowl
		Teflon Bailer <input checked="" type="checkbox"/>	Hand Auger
Type/Construction			
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1005 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 0-4 FT (below surface) If MI # of increments taken: _____ Estimated - Measured - Surveyed
 Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters	
PID / FID Readings: Background: _____ ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity	
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability	
Sample: _____ ppm	Propellants		Nitrate		
Water Level: <u>0-4.5</u> FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples	
Temperature: <u>7.7</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No NA
Sp. Conductance: <u>0.066</u> uMHOs	Cyanides	<input checked="" type="checkbox"/>		Duplicate ID	NA
pH: <u>6.75</u> units	TOC			Equipment Rinse ID	NA
Turbidity: <u>0.0</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u> NA

Sample Description

Light yellowish color, NO odor
NO sheen, NO Turbidity

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Logged By: James Panow (Please Print) Reviewed by: FAV FEUS (Please Print)

Signature: [Signature] Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: LL10SW-019-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/01/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle <input checked="" type="checkbox"/>	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
		BAILER <input checked="" type="checkbox"/>	Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form <input checked="" type="checkbox"/> Yes - No			

Sample Collection: 1335 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
If MI, # of increments taken: _____
Estimated - Measured - Surveyed

Sample Depth: SURFACE FT (below surface) Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters	
PID / FID Readings: Background: ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity	
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability	
Sample: ppm	Propellants	<input checked="" type="checkbox"/>	Nitrate		
Water Level <u>4.0</u> FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples	
Temperature <u>7.2</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No <u>NA</u>
Sp. Conductance: <u>0.053</u> $\mu\text{mhos/cm}$	Cyanides	<input checked="" type="checkbox"/>		Duplicate ID	<u>LL10SW-019-DUPNA</u>
pH <u>6.64</u> units	TOC			Equipment Rinse ID	<u>NA</u>
Turbidity <u>2.0</u> N.T.U.	Grain Size			Trip Blank ID	<u>Trip Blank</u> <u>NA</u>

Sample Description
NO ODDOR, NO COLOR, NO SHEEN

Split Sample

Split Sample ID: LL10SW-019-SW

Name: JOHN JENT (CELL-EC-ED)

Agency/Company: USACE-LOUISVILE

Address: 600 DR. MARTIN LUTHER KING JR. PARK
LOUISVILE KY 40202

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print) Reviewed by: ERIC FUS (Please Print)

Signature: [Signature] Signature: [Signature] Date: 2/7/05

Field Sampling Report

Location ID: L10SW-020-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/23/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
		<i>TEFLON PALLET</i>	Push Probe
Type/Construction			Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks

Sample Collection: 1045 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: 3-4 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC <input checked="" type="checkbox"/>	Corrosivity
Background: _____ ppm	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide
Sample: <u>0.0</u> ppm	Explosives <input checked="" type="checkbox"/>	Ignitability
	TPH GRO	
	TPH DRO	
	Chromium +6	
	Nitrate	
Water Level: <u>4.0</u> FT	TAL Metals <input checked="" type="checkbox"/>	QA Samples
Temperature: <u>8.5</u> °C	Pesticides/PCBs <input checked="" type="checkbox"/>	MS/MSD Yes / No NA
Sp. Conductance: <u>0000</u> µmhos ^{µmhos}	Cyanides <input checked="" type="checkbox"/>	Duplicate ID NA
pH: <u>6.94</u> units	TOC	Equipment Rinse ID NA
Turbidity: <u>3.0</u> N.T.U.	Grain Size	Trip Blank ID <u>Trip Blank</u> NA

Sample Description

NO COLOR
NO SHEEN
NO ODOR
NO TURBIDITY

*Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture*

*Water sample description should include:
Color Odor Sheen Turbidity*

Split Sample

Split Sample ID: _____

Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: ERIC FUS (Please Print) Reviewed by: ERIC FUS Sue Boles (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/7/05
2/23/05

Field Sampling Report

Location ID: L10SW-021-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/23/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle <input checked="" type="checkbox"/>	Scoop <input type="checkbox"/> Trowel <input type="checkbox"/>
	Pump	Bacon Bomb <input type="checkbox"/>	Bowl <input type="checkbox"/> Hand Auger <input type="checkbox"/>
		<u>TEFLON PAILER</u> <input checked="" type="checkbox"/>	Push Probe <input type="checkbox"/> Plastic Liner <input type="checkbox"/>
Type/Construction			Mattocks <input type="checkbox"/>
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 1050 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: 3-4 FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings: Background: _____ ppm	VOC <input checked="" type="checkbox"/>	Corrosivity <input type="checkbox"/>
	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide <input type="checkbox"/>
	Explosives <input checked="" type="checkbox"/>	Ignitability <input type="checkbox"/>
Sample: _____ ppm	Propellants <input type="checkbox"/>	
Water Level <u>3.5</u> FT	TAL Metals <input checked="" type="checkbox"/>	
Temperature <u>3.5</u> <u>7.6</u> °C	Pesticides/PCBs <input checked="" type="checkbox"/>	
Sp. Conductance: <u>0.079</u> <u>µmhos/cm</u>	Cyanides <input checked="" type="checkbox"/>	
pH <u>6.48</u> units	TOC <input type="checkbox"/>	
Turbidity <u>1.0</u> N.T.U.	Grain Size <input type="checkbox"/>	
		QA Samples
		MS/MSD <input type="checkbox"/> Yes / No <input type="checkbox"/> NA
		Duplicate ID <input type="checkbox"/> NA
		Equipment Rinse ID <input type="checkbox"/> NA
		<u>Trip Blank ID</u> <u>Trip Blank</u> NA

Sample Description

No color
No odor
No Sheen
No Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - AS Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Paul EWS (Please Print)

Reviewed by: SE Sue Boles (Please Print)

Signature: Paul EWS

Signature: Sue Boles Date: 02/23/05

Field Sampling Report

Location ID: L105W-022-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 30 NOV 04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
Type/Construction		Bailer	Hand Auger
Miscellaneous	Well Purging Form Yes - No		Plastic Liner

Sample Collection: 1415 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: ~3 FT (below surface) Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings: Background: _____ ppm	VOC <input checked="" type="checkbox"/>	Corrosivity
	SVOC <input type="checkbox"/>	Reactivity Sulfide/Cyanide
	Explosives <input checked="" type="checkbox"/>	Ignitability
Sample: _____ ppm	Propellants <input checked="" type="checkbox"/> Nitrate	
Water Level <u>3.5</u> FT	TAL Metals <input checked="" type="checkbox"/>	QA Samples
Temperature <u>7.7</u> °C	Pesticides/PCBs <input checked="" type="checkbox"/>	MS/MSD Yes / No NA
Sp. Conductance: <u>0.141</u> <u>5/cm</u> uMHOs	Cyanides <input checked="" type="checkbox"/>	Duplicate ID NA
pH <u>7.29</u> units	TOC	Equipment Rinse ID NA
Turbidity <u>27</u> N.T.U.	Grain Size	Trip Blank ID <u>Trip Blank</u> NA

Sample Description

Clear No Odor No Sheen Low/No Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

 QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture
Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: Mark Dunlavy (Please Print) Reviewed by: FRANKS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/7/05

Location ID: 1105W-023-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/30/04

Sampling Information

Source	Groundwater / Product		Surface Water		Soils / Sediments / Sludge	
Method	Bailer		Sample Bottle		Scoop	Trowel
	Pump		Bacon Bomb		Bowl	Hand Auger
					Push Probe	Plastic Liner
Type/Construction					Mattocks	
Miscellaneous	Well Purging Form Yes - No					

Sample Collection: _____ hrs Sample Type: Composite - MI - Grab
 Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____
 Estimated - Measured - Surveyed
 Sample Depth: _____ FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC		TPH GRO	Corrosivity		
	SVOC		TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives		Chromium +6	Ignitability		
Sample: ppm	Propellants		Nitrate			
Water Level: FT	TAL Metals			QA Samples		
Temperature: °C	Pesticides/PCBs			MS/MSD	Yes / No	NA
Sp. Conductance: uMHOs	Cyanides			Duplicate ID		NA
pH: units	TOC			Equipment Rinse ID		NA
Turbidity: N.T.U.	Grain Size			Trip Blank ID		NA

Sample Description

Bldg collapsed, sump could not be located due to bldg debris.

*could not locate sump
No samples collected*

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: James Panora (Please Print)

Signature: *[Signature]*

Reviewed by: Sue Boles (Please Print)

Signature: Sue Boles Date: 02/23/05

Field Sampling Report

Location ID: L105W-024-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 30 Nov 04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
Type/Construction		Mattocks	Trowel
Miscellaneous	Well Purging Form Yes - No		Hand Auger Plastic Liner

Sample Collection: 1540 hrs Sample Type: Composite - MI Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: ~3 FT (below surface) Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings: Background: _____ ppm	VOC <input checked="" type="checkbox"/>	Corrosivity
	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide
	Explosives <input checked="" type="checkbox"/>	Ignitability
Sample: _____ ppm	TPH GRO <input checked="" type="checkbox"/> TPH DRO <input checked="" type="checkbox"/> Chromium +6 <input checked="" type="checkbox"/> Propellants <input checked="" type="checkbox"/> Nitrate	
Water Level: <u>3</u> FT	TAL Metals <input checked="" type="checkbox"/>	QA Samples
Temperature: <u>5.6</u> °C	Pesticides/PCBs <input checked="" type="checkbox"/>	MS/MSD Yes / No NA
Sp. Conductance: <u>0.156</u> $\mu\text{mhos/cm}$	Cyanides <input checked="" type="checkbox"/>	Duplicate ID NA
pH: <u>6.43</u> units	TOC	Equipment Rinse ID NA
Turbidity: <u>6.0</u> N.T.U.	Grain Size	Trip Blank ID <u>Trip Blank</u> NA

Sample Description

Clear No odor No Sheen No Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Mark Dunlop (Please Print) Reviewed by: ERIC FUIS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/7/05

Field Sampling Report

Location ID: L10 SW-025-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 11/19/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop		Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
		TELEPHONE SAUCER	✓	Push Probe	Plastic Liner
Type/Construction			Mattocks		
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1415 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 Sample Depth: surface FT (below surface) If MI, # of increments taken: Estimated - Measured - Surveyed
 Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC	X	TPH GRO	Corrosivity		
	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6	Ignitability		
Sample: ppm	Propellants	X	Nitrate			
Water Level: <u>3</u> FT	TAL Metals	X		QA Samples		
Temperature: <u>8.2</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.263</u> uMHOs/cm	Cyanides	X		Duplicate ID		NA
pH: <u>5.85</u> units	TOC			Equipment Rinse ID		NA
Turbidity: <u>21</u> N.T.U.	Grain Size			Trip Blank ID	<u>Trip Blank</u>	NA

Sample Description

No odor, NO sheen,

NO turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate Trip Blanks Field Blanks

Parameters: Same as Above As Listed

(B/PB3 BASEMENT)

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Vijay Alluri (Please Print) Reviewed by: ERIC QUIS (Please Print)

Signature: Vijay Signature: [Signature] Date: 2/7/05

Field Sampling Report

Location ID: F16 SW-001-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 03 Nov 04

Sampling Information

Source	Groundwater / Product	<u>Surface Water</u>	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	<input checked="" type="checkbox"/>	Scoop	Trowel
	Pump	Bacon Bomb		Bowl	Hand Auger
				Push Probe	
Type/Construction	<u>Direct Fill</u>				
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1415 hrs

Sample Type: Composite/(MI) - Grab
If MI, # of increments taken:

Location: Plotted on Map - Staked in Field
Estimated - Measured - Surveyed

Sample Depth: 0-0.5 FT (below surface)

Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity		
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability		
Sample: ppm	Propellants	<input checked="" type="checkbox"/>	Nitrate NO3			
Water Level	TAL Metals	<input checked="" type="checkbox"/>		QA Samples		
Temperature <u>13.9</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No	(NA)
Sp. Conductance: <u>0.606</u> uMHOs	Cyanides			Duplicate ID		(NA)
pH <u>7.06</u> units	TOC			Equipment Rinse ID		(NA)
Turbidity <u>19</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>TRIP BLANK</u>	NA

Sample Description

Clear No Odor No Sheen Low Turbidity

Split Sample

Split Sample ID: _____
Name: _____
Agency/Company: _____
Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Mark Dunlavy (Please Print)

Reviewed by: ERIC EUS (Please Print)

Signature: [Signature]

Signature: [Signature] Date: 2/3/05

Field Sampling Report

Location ID: F16SW-002-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 03 Nov 04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	X
	Pump	Bacon Bomb	
			Push Probe
Type/Construction		Direct Fill	
Miscellaneous		Well Purging Form Yes - No	

Sample Collection: 1450 hrs **Sample Type:** Composite/(MI) - Grab
 If MI, # of increments taken: _____ **Location:** Plotted on Map - Staked in Field
Sample Depth: 0-0.5 FT (below surface) **Decon:** Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings: Background: _____ ppm	VOC	X
	SVOC	X
	Explosives	X
Sample: _____ ppm	TPH GRO	
	TPH DRO	
Water Level _____ FT	Chromium +6	
	Nitrate	
Temperature <u>12.3</u> °C	Propellants	X
	TAL Metals	X
Sp. Conductance: <u>0.245</u> uMHOs	Pesticides/PCBs	X
	Cyanides	
pH <u>7.67</u> units	TOC	
	Grain Size	
Turbidity <u>6.0</u> N.T.U.		

QA Samples		
MS/MSD	Yes <u>(No)</u>	NA
Duplicate ID	<u>F16SW-002-DUP</u> NA	
Equipment Rinse ID	(NA)	
Trip Blank ID	<u>Trip Blank</u> (NA)	

Sample Description

Clear, no odor, no sheen, low turbidity

stream channel - collected from bank

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Split Sample

Split Sample ID: F16SW-002-SW

Name: John Tent (CEUR-ER-00)

Agency/Company: Army Corp of Engineers

Address: 600 DR. MARTIN LUTHER KING SR. PARK
LOUISVILLE KY 40202

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Logged By: Mark Dunlevy (Please Print)

Signature: [Signature]

Reviewed by: ERIC FUS (Please Print)

Signature: [Signature] Date: 2/3/05

Total depth 5.0
Depth to water 4.6

Location ID: ASY_{SW} - 001-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/07/04

Sampling Information

Source	Groundwater / Product	SEWER Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
			Hand Auger
Type/Construction		BAILER	Mattocks
Miscellaneous	Well Purging Form Yes - No		Plastic Liner

Sample Collection: 1045 hrs Sample Type: Composite - MI Grab
If MI # of increments taken: _____ Location: Plotted on Map Staked in Field
Sample Depth: 4.6 FT (below surface) Decon: Dedicated Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC	X	TPH GRO	Corrosivity		
	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6	Ignitability		
Sample: _____ ppm	Propellants	X	Nitrate			
Water Level _____ FT	TAL Metals	X		QA Samples		
Temperature <u>8.15</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.164</u> uMHOs	Cyanides			Duplicate ID		NA
pH <u>6.55</u> units	TOC			Equipment Rinse ID		NA
Turbidity _____ N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

DO 8.34 mg/l Sample Description
Clear water, no odor
NO Sheen
NO turbidity

Split Sample
Split Sample ID: _____
Name: _____
Agency/Company: _____
Address: _____
QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
Parameters: Same as Above - As Listed

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture
Water sample description should include:
Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print) Reviewed by: ERIC EUS (Please Print)
Signature: Shringarpure Signature: Eric Eus Date: 2/2/05

5.4 ft to water
7.0 ft total depth

Field Sampling Report

Location ID: ASY SW - 002-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/07/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
Type/Construction		<u>Bailer</u>	Hand Auger
			Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks

Sample Collection: 1145 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 Sample Depth: 5.4 FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC	X	TPH GRO	Corrosivity		
	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6	Ignitability		
Sample: ppm	Propellants	X	Nitrate			
Water Level: FT	TAL Metals	X		QA Samples		
Temperature: <u>8.99</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.129</u> uMHOs	Cyanides			Duplicate ID		NA
pH: <u>6.57</u> units	TOC			Equipment Rinse ID		NA
Turbidity: <u>12.4</u> N.T.U.	Grain Size			Trip Blank ID	<u>Trip Blank</u>	NA

DO 5.33 mg/L Sample Description
Clear water, no odor
no sheen no turbidity

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____
 QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print) Reviewed by: EMC GUIS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: AS4SW-003-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/07/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	X	Scoop	Trowel
	Pump	Bacon Bomb		Bowl	Hand Auger
Type/Construction				Push Probe	Plastic Liner
Miscellaneous	Well Purging Form Yes - No			Mattocks	

Sample Collection: 1315 hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: NA Location: Plotted on Map Staked in Field
 Sample Depth: 6 FT (below surface) Decon: Dedicated - Each Day Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: ppm	VOC	X	TPH GRO	Corrosivity		
	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
<u>DO</u> <u>5.02 mg/L</u>	Explosives	X	Chromium +6	Ignitability		
Sample: <u>upto bottom</u> ppm	Propellants	X	Nitrate			
Water Level <u>4.6</u> FT	TAL Metals	X		QA Samples		
Temperature <u>10.6</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.118</u> uMHOs	Cyanides			Duplicate ID		NA
pH <u>7.19</u> units	TOC			Equipment Rinse ID		NA
Turbidity <u>-10</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description

No color, No odor, No sheen,
very low turbidity.

No sediment at the bottom.

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: Vijay Alluri (Please Print)
 Signature: Vijay

Reviewed by: EAG EWS (Please Print)
 Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: ASYSW-004-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/07/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	X	Scoop	Trowel
	Pump	Bacon Bomb		Bowl	Hand Auger
				Push Probe	Plastic Liner
Type/Construction				Mattocks	
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1030 hrs Sample Type: Composite - MI Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: NA Estimated - Measured - Surveyed
 Sample Depth: 8 FT (below surface) Decon: Dedicated - Each Day Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC <input checked="" type="checkbox"/>	Corrosivity
Background: ppm	TPH GRO	
	SVOC <input checked="" type="checkbox"/>	Reactivity Sulfide/Cyanide
<u>DO</u> <u>7.81</u>	TPH DRO	
	Explosives <input checked="" type="checkbox"/>	Ignitability
Sample: <u>upto bottom</u> <u>10.4</u> ppm	Chromium +6	
	Propellants <input checked="" type="checkbox"/>	
Water Level <u>5.4</u> FT	Nitrate	
	TAL Metals <input checked="" type="checkbox"/>	
Temperature <u>10.7</u> °C		QA Samples
	Pesticides/PCBs <input checked="" type="checkbox"/>	MS/MSD <u>Yes</u> / No NA
Sp. Conductance: <u>0.193</u> uMHOs		Duplicate ID <u>ASYSW-004-DUP</u> NA
	Cyanides	Equipment Rinse ID <u>NA</u>
pH <u>7.91</u> units	TOC	Trip Blank ID <u>TRIP BLANK</u> NA
Turbidity <u>25.7</u> N.T.U.	Grain Size	

Sample Description

No color, No odor, No sheen,
very low turbidity

No sediment at the bottom

Split Sample

Split Sample ID: ASYSW-004-SW

Name: JOHN JEAN
 Agency/Company: USACE - LOUISVILLE
 Address: 600 PENNING WILSON KING DR P424
LOUISVILLE KY 40202

QA/QC Provided: MS/MSD - Duplicate - Trip-Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: vijay Alluri (Please Print) Reviewed by: ERIC PAUS (Please Print)
 Signature: vijay Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: ASY SW - 005 SW
 Date: 12/09/04

Ravenna Army Ammunition Plant
 Characterization of 14 RVAAP AOCs

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bomb	X	Scoop	Trowel
	Pump	Bacon Bomb	X	Bowl	Hand Auger
Type/Construction		Bailer	X	Push Probe	Plastic Liner
Miscellaneous	Well Purging Form Yes - No			Mattocks	

Sample Collection: ~~9:30~~ hrs 1000 Sample Type: Composite - MI Grab
 If MI, # of increments taken: NA Location: Plotted on Map - Staked in Field
 Sample Depth: 28 FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	X	TPH GRO	Corrosivity		
Background: ppm	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
Depth to bottom <u>6.4ft</u>	Explosives	X	Chromium +6	Ignitability		
Sample: <u>DO 862</u> ppm	Propellants	X	Nitrate			
Water Level <u>2.8</u> FT	TAL Metals	X		QA Samples		
Temperature <u>10.4</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.311</u> uMHOs	Cyanides			Duplicate ID		NA
pH <u>6.33</u> units	TOC			Equipment Rinse ID		NA
Turbidity <u>10</u> N.T.U.	Grain Size			Trip Blank ID	<u>Trip Blank</u>	NA

Sample Description

No color, organic odor, NO sheen,
very low turbidity.

NO sediment found.

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - MS Listed

Logged By: Vijay Alluri (Please Print)

Reviewed by: ERIC EWS (Please Print)

Signature: Vijay

Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: ASYSW - 006-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/09/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
		Bailer	X	Push Probe
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1045 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: NA
 Sample Depth: 3.5 FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	X	TPH GRO	Corrosivity		
Background: ppm	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
<u>DO</u>	Explosives	X	Chromium +6	Ignitability		
<u>Depth to bottom</u> <u>7.2</u>	Propellants	X	Nitrate			
Sample: ppm	TAL Metals	X		QA Samples		
Water Level <u>3.5</u> FT	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Temperature <u>9.8</u> °C	Cyanides			Duplicate ID		NA
Sp. Conductance: <u>0.24</u> uMHOs	TOC			Equipment Rinse ID		NA
pH <u>6.66</u> units	Grain Size			Trip Blank ID	<u>Trip Blank</u>	NA
Turbidity <u>0</u> N.T.U.						

Sample Description
No color, No odor, No sheen
No turbidity

No sediment at the bottom

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Vijay Alluri (Please Print)

Reviewed by: ERIC FLWS (Please Print)

Signature: Vijay

Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: ASY SW - 007 SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/09/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop		Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
		Bailer	X	Push Probe	Plastic Liner
Type/Construction			Mattocks		
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1115 hrs Sample Type: Composite - MI Grab Location: Plotted on Map Staked in Field
 If MI, # of increments taken: NA
 Sample Depth: 3.5 FT (below surface) Decon: Dedicated - Each Day Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	X	TPH GRO	Corrosivity		
Background: ppm	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
<u>Depth to bottom 8.2ft</u>	Explosives	X	Chromium +6	Ignitability		
Sample: <u>DO 6.53</u> ppm	Propellants	X	Nitrate			
Water Level: <u>3.5</u> FT	TAL Metals	X		QA Samples		
Temperature: <u>8.5</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.24</u> uMHOs	Cyanides			Duplicate ID		NA
pH: <u>7.02</u> units	TOC			Equipment Rinse ID		NA
Turbidity: <u>0</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description

No color, No odor, No sheen,

No turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate, Trip Blanks, Field Blanks
Parameters: Same as Above - AS LISTED

Soil sample description should include:
Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
Color Odor Sheen Turbidity

Logged By: Vijay Alluri (Please Print) Reviewed by: ERK EUS (Please Print)
 Signature: Vijay Signature: ERK Date: 2/2/05

Depth to water 6.1
Total depth 7.7

Field Sampling Report

Location ID: ASYsw-008-SW
Date: 12/08/04

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

SEWER Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
		Bailer	Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: 1410 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 6.1 FT (below surface) If MI, # of increments taken: Estimated - Measured - Surveyed
 Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters	
PID / FID Readings: Background: ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity	
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide	
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability	
Sample: ppm	Propellants	<input checked="" type="checkbox"/>	Nitrate		
Water Level: FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples	
Temperature: 9.4 °C	Pesticides/PCBs	<input checked="" type="checkbox"/>			
Sp. Conductance: 0.228 uMHOs	Cyanides			MS/MSD	Yes / No <u>NA</u>
pH: 7.58 units	TOC			Duplicate ID	<u>NA</u>
Turbidity: 34 N.T.U.	Grain Size			Equipment Rinse ID	<u>ASYsw-008-FR</u> NA
				Trip Blank ID	<u>Trip Blank</u> <u>NA</u>

DO: 13.0 mg/l
 pale yellow, visible sheen on the surface

Sample Description

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH JHANGARPURE (Please Print) Reviewed by: ERIC FUS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: AS1 SW - 009 - SW ^{sub}
~~AS1 SW - 009 - SW~~

Ravenna Army Ammunition Plant
 Characterization of 14 RVAAP AOCs

Date: 12/10/05

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
		Bailer	Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		NO sediments

Sample Collection: 1130 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 Sample Depth: 3.9 FT (below surface) IFMI, # of increments taken: _____ Estimated - Measured - Surveyed
 Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters						
Background: ppm	VOC	X	TPH GRO	Corrosivity						
	SVOC	X	TPH DRO				Reactivity Sulfide/Cyanide			
	Explosives	X	Chromium +6							Ignitability
Sample: ppm	Propellants	X	Nitrate	QA Samples						
	Water Level	3.9	FT				TAL Metals	X	MS/MSD	Yes / No
Temperature	10.2	°C	Pesticides/PCBs				X	Duplicate ID	NA	
Sp. Conductance:	0.160	µMHOs	Cyanides					Equipment Rinse ID	NA	
pH	7.00	units	TOC					Trip Blank ID	NA	
Turbidity	10	N.T.U.	Grain Size		Trip Blank					

Sample Description

clear water

no odor, no sheen

Low turbidity

DO: 6.67

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks

Parameters: Same as Above - As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Shalwan Taha'nia (Please Print) Reviewed by: FRK EWIS (Please Print)

Signature: [Signature] Signature: [Signature] Date: 2/2/05

Depth to water 2.5
Total depth 7.0

Field Sampling Report

Location ID: ASYSW-010-SW
Date: 12/08/04

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

SEWER Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bomb	Scoop
	Pump	Bacon Bomb	Bowl
			Push Probe
Type/Construction			Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks

Sample Collection: 0945 hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map Staked in Field
 Sample Depth: 2.5 FT (below surface) Decon: Dedicated - Each Day Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	Corrosivity		
	SVOC	<input checked="" type="checkbox"/>	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	<input checked="" type="checkbox"/>	Chromium +6	Ignitability		
Sample: _____ ppm	Propellants	<input checked="" type="checkbox"/>	Nitrate			
Water Level _____ FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples		
Temperature <u>9.5</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>				
Sp. Conductance: <u>0.241</u> uMHOs	Cyanides			MS/MSD	Yes / No	NA
pH <u>7.55</u> units	TOC			Duplicate ID		NA
Turbidity <u>29</u> N.T.U.	Grain Size			Equipment Rinse ID		NA
				<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

DO 10.94
 LIGHT NUMBER, ORDER OF PETROLEUM

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

 QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH SHRINGARPURE (Please Print) Reviewed by: ERIC ELUIS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/2/05

Depth to water 2.3
Total depth 6.5

Field Sampling Report

Location ID: ASYSW-011-SW
Date: 12/08/04

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

SEWER Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
		<i>BAILER</i>	Hand Auger
Type/Construction		Push Probe	Plastic Liner
Miscellaneous	Well Purging Form Yes - No		Mattocks

Sample Collection: 0845 hrs Sample Type: Composite - MI Grab
 If MI, # of increments taken: _____ Location: Plotted on Map Staked in Field
 Sample Depth: 2.3 FT (below surface) Decon: Dedicated - Each Day Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	<input checked="" type="checkbox"/>	TPH GRO		Corrosivity	
Background: ppm	SVOC	<input checked="" type="checkbox"/>	TPH DRO		Reactivity Sulfide/Cyanide	
DO 11.06	Explosives	<input checked="" type="checkbox"/>	Chromium +6		Ignitability	
Sample: ppm	Propellants	<input checked="" type="checkbox"/>	Nitrate	<i>54</i>		
Water Level FT	TAL Metals	<input checked="" type="checkbox"/>			QA Samples	
Temperature 9.2 °C	Pesticides/PCBs	<input checked="" type="checkbox"/>			MS/MSD	Yes / No NA
Sp. Conductance: 0.316 uMHOs	Cyanides				Duplicate ID	NA
pH 7.76 units	TOC				Equipment Rinse ID	NA
Turbidity 34 N.T.U.	Grain Size				Trip Blank ID	<i>Trip Blank</i> NA

Sample Description

LIGHT AMBER, ODDOR OF OIL & GAS, SHEEN VISIBLE ON SURFACE

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate Trip Blanks - Field Blanks
 Parameters: Same as Above AS LISTED

Logged By: NILESH SHRINGARPURE (Please Print)

Signature: *N Shringarpure*

Reviewed by: ERIC EWS (Please Print)

Signature: *Eric EWS* Date: 2/2/05

Field Sampling Report

Location ID: ASYSW-012-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/08/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge
Method	Bailer	Sample Bottle	Scoop
	Pump	Bacon Bomb	Bowl
		<u>Poly Bailer</u>	Push Probe
Type/Construction			Mattocks
Miscellaneous	Well Purging Form Yes - No		

Sample Collection: 0930 hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: NA Location: Plotted on Map Staked in Field
 Sample Depth: 2.4 FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters
PID / FID Readings:	VOC	Corrosivity
Background: ppm	TPH GRO	Reactivity Sulfide/Cyanide
DO 10.26	SVOC	Ignitability
Sample: ppm	Explosives	
<u>Up to bottom</u> 6ft	TPH DRO	
Water Level 2.4 FT	Chromium +6	
Temperature 10.0 °C	Propellants	
Sp. Conductance: 0.359 uMHOs	Nitrate	
pH 7.77 units	TAL Metals	
Turbidity 33 N.T.U.	Pesticides/PCBs	
	Cyanides	
	TOC	
	Grain Size	
		QA Samples
		MS/MSD Yes / <u>NO</u> NA
		Duplicate ID <u>ASYSW-012-DUP</u> NA
		Equipment Rinse ID <u>NA</u>
		Trip Blank ID <u>Trip Blank</u> <u>NA</u>

Sample Description

No color, No odor, oil sheen, low turbidity

Split Sample

Split Sample ID: ASYSW-012-SW

Name: John Dent
 Agency/Company: USACE - LOUISVILLE

Address: 600 DR. MARTIN LUTHER KING JR. BLVD
LOUISVILLE KY 40202

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above As Listed

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Logged By: Vijay Allari (Please Print)

Reviewed by: ERIC EUS (Please Print)

Signature: Vijay

Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: AS45W-013-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/10/04

Sampling Information

Source	Groundwater / Product	<u>Surface Water</u>	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: NA hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Estimated - Measured - Surveyed
 Sample Depth: NA FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters	
PID / FID Readings: Background: ppm	VOC	TPH GRO	Corrosivity
	SVOC	TPH DRO	Reactivity Sulfide/Cyanide
	Explosives	Chromium +6	Ignitability
Sample: ppm	Propellants	Nitrate	
Water Level: FT	TAL Metals	QA Samples	
Temperature: °C	Pesticides/PCBs	MS/MSD	Yes / No NA
Sp. Conductance: uMHos	Cyanides	Duplicate ID	NA
pH: units	TOC	Equipment Rinse ID	NA
Turbidity: N.T.U.	Grain Size	Trip Blank ID	NA

Sample Description

sewer could not be located using maps and magnetometer after several attempts.

Soil sample description should include:

Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:

Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: James Panov (Please Print)

Signature: *James Panov*

Reviewed by: Sue Boles (Please Print)

Signature: *Sue Boles* Date: 02/23/05

Field Sampling Report

Location ID: 15Y5W-014-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/06/04

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	Scoop		Trowel
	Pump	Bacon Bomb	Bowl		Hand Auger
		<i>Swirl</i>	Push Probe		Plastic Liner
Type/Construction			Mattocks		
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1500 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
If MI, # of increments taken
 Sample Depth: SURFACE FT (below surface) Decon: Dedicated - Each Day - Each Location Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID/ FID Readings: Background: ppm	VOC	X	TPH GRO	Corrosivity		
	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
	Explosives	X	Chromium +6	Ignitability		
Sample: ppm	Propellants	X	Nitrate			
Water Level FT	TAL Metals	X		QA Samples		
Temperature 96 °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: 0188 uMHOs	Cyanides			Duplicate ID		NA
pH 6.99 units	TOC			Equipment Rinse ID		NA
Turbidity 0 N.T.U.	Grain Size			Trip Blank ID	<u>Trip Blank</u>	NA

00 551 **Sample Description**
clear water, no sheen
no odor, no turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH SRINGARIUS (Please Print) Reviewed by: ERIC EWIS (Please Print)

Signature: [Signature] Signature: [Signature] Date: 2/2/05

Field Sampling Report

Location ID: AS4SW-015-SW

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/10/04

Sampling Information

Source	Groundwater / Product	<u>Surface Water</u>	Soils / Sediments / Sludge	
Method	Bailer	Sample Bottle	Scoop	Trowel
	Pump	Bacon Bomb	Bowl	Hand Auger
			Push Probe	Plastic Liner
Type/Construction			Mattocks	
Miscellaneous	Well Purging Form Yes - No			

Sample Collection: NA hrs Sample Type: Composite - MI - Grab
 If MI, # of increments taken: _____ Location: Plotted on Map - Staked in Field
 Sample Depth: NA FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters	Other Parameters	
PID / FID Readings: Background: ppm	VOC	TPH GRO	Corrosivity
	SVOC	TPH DRO	Reactivity Sulfide/Cyanide
	Explosives	Chromium +6	Ignitability
Sample: ppm	Propellants	Nitrate	
Water Level FT	TAL Metals	QA Samples	
Temperature °C	Pesticides/PCBs	MS/MSD	Yes / No NA
Sp. Conductance: uMHOs	Cyanides	Duplicate ID	NA
pH units	TOC	Equipment Rinse ID	NA
Turbidity N.T.U.	Grain Size	Trip Blank ID	NA

Sample Description

sewer lid was missing and sewer was filled with surface debris including soil, RR ties, wood & ballast.

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Split Sample

Split Sample ID: _____

Name: _____

Agency/Company: _____

Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Logged By: James Panozzo (Please Print)

Signature: *James Panozzo*

Reviewed by: Sue Boles (Please Print)

Signature: *Sue Boles* Date: 02/23/05

Field Sampling Report

Location ID: AGY 5W - 016 - 5W
 Date: 12/06/04

Ravenna Army Ammunition Plant
 Characterization of 14 RVAAP AOCs

Sampling Information

Source	Groundwater / Product	Surface Water	Soils / Sediments / Sludge		
Method	Bailer	Sample Bottle	<input checked="" type="checkbox"/>	Scoop	Trowel
	Pump	Bacon Bomb		Bowl	Hand Auger
		<u>Scoop</u>	<input checked="" type="checkbox"/>	Push Probe	Plastic Liner
Type/Construction				Mattocks	
Miscellaneous	Well Purging Form Yes - No				

Sample Collection: 1400 hrs Sample Type: Composite - MI - Grab Location: Plotted on Map - Staked in Field
 If MI, # of increments taken: _____ Estimated - Measured - Surveyed
 Sample Depth: SURFACE FT (below surface) Decon: Dedicated - Each Day - Each Location

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings: Background: _____ ppm	VOC	<input checked="" type="checkbox"/>	TPH GRO	/	Corrosivity	
	SVOC	<input checked="" type="checkbox"/>	TPH DRO		Reactivity Sulfide/Cyanide	
	Explosives	<input checked="" type="checkbox"/>	Chromium +6		Ignitability	
Sample: _____ ppm	Propellants	<input checked="" type="checkbox"/>	Nitrate			
Water Level: _____ FT	TAL Metals	<input checked="" type="checkbox"/>		QA Samples		
Temperature: <u>9.00</u> °C	Pesticides/PCBs	<input checked="" type="checkbox"/>		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.392</u> uMHOs	Cyanides			Duplicate ID		NA
pH: <u>7.39</u> units	TOC			Equipment Rinse ID		NA
Turbidity: <u>0</u> N.T.U.	Grain Size			<u>Trip Blank ID</u>	<u>Trip Blank</u>	NA

DO 0.13 mg/l
Sample Description
No odor No green clear water
No sediment

Split Sample

Split Sample ID: _____
 Name: _____
 Agency/Company: _____
 Address: _____

QA/QC Provided: MS/MSD - Duplicate - Trip Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture

Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: NILESH SHRINGAPURE (Please Print) Reviewed by: ERIC ELLIS (Please Print)
 Signature: [Signature] Signature: [Signature] Date: 2/2/05

Location ID: 12-10 ASYSW-017-SW

Field Sampling Report

Ravenna Army Ammunition Plant
Characterization of 14 RVAAP AOCs

Date: 12/10/04

Sampling Information

Source	Groundwater / Product		Surface Water	Soils / Sediments / Sludge	
Method	Bailer		Sample Bottle	Scoop	Trowel
	Pump		Bacon Bomb	Bowl	Hand Auger
Type/Construction			Peristaltic pump X	Push Probe	Plastic Liner
Miscellaneous	Well Purging Form Yes - No			Mattocks	

Sample Collection: 1425 hrs Sample Type: Composite - MI - Grab
 If ML, # of increments taken: NA Location: Plotted on Map - Staked in Field
 Sample Depth: 6.03 FT (below surface) Decon: Dedicated - Each Day - Each Location
 Estimated - Measured - Surveyed

Field Parameters (at time of sample)	Analytical Parameters			Other Parameters		
PID / FID Readings:	VOC	X	TPH GRO	Corrosivity		
Background: ppm	SVOC	X	TPH DRO	Reactivity Sulfide/Cyanide		
DO <u>5.57</u>	Explosives	X	Chromium +6	Ignitability		
Sample: ppm	Propellants	X	Nitrate			
Water Level <u>6.03</u> FT	TAL Metals	X		QA Samples		
Temperature <u>8.9</u> °C	Pesticides/PCBs	X		MS/MSD	Yes / No	NA
Sp. Conductance: <u>0.081</u> uMHOs	Cyanides			Duplicate ID		NA
pH <u>6.46</u> units	TOC			Equipment Rinse ID		NA
Turbidity <u>30</u> N.T.U.	Grain Size			<u>Top Blank ID</u>	<u>Trip Blank</u>	NA

Sample Description
NO color, NO odor, NO sheen,
low turbidity.

Collected sediment sample.

Split Sample
 Split Sample ID:
 Name:
 Agency/Company:
 Address:
 QA/QC Provided: MS/MSD - Duplicate - Top Blanks - Field Blanks
 Parameters: Same as Above - As Listed

Soil sample description should include:
 Munsell Color Odor Staining Texture Sorting Plasticity Moisture
 Water sample description should include:
 Color Odor Sheen Turbidity

Logged By: Vijay Alluri (Please Print) Reviewed by: ERIC EWS (Please Print)
 Signature: Vijay Signature: [Signature] Date: 2/2/05