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Shaw MMRP Project Update Ravenna AAP, Ohio by Robert Harrison, Shaw Field Manager

> RVAAP RAB Meeting 11 January 2012



Acronym Cheat Sheet

- **CERCLA = Comprehensive Environmental, Response, Compensation and Liability Act**
- DQO = Data Quality Objective
- FS = Feasibility Study
- HASP = Health and Safety Plan
- LTM = Long Term Monitoring
- MAMMS = Multiple Award Military Munitions Services
- MC = Munitions Constituents
- MEC = Munitions and Explosives of Concern
- MMRP = Military Munitions Response Program
- MPPEH = Material Potentially Presenting an Explosive Hazard
- MRS = Munitions Response Site (term used for a site in MMRP program)
- NTP = Notice to Proceed
- PBA = Performance Based Acquisition
- PMP = Project Management Plan
- PP = Proposed Plan
- RA(O) = Remedial Action Operations
- RD/RA = Remedial Design/Remedial Action
- RI = Remedial Investigation
- RIP = Remedy in Place
- ROD = Record of Decision
- USACE = United States Army Corps of Engineers

Agenda

- Introductions
- Summary of Military Munitions Response Program (MMRP) Remedial Investigation (RI) Project
- Contract Specific Update of Work

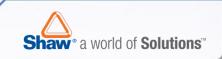
MMRP RI Summary of Work

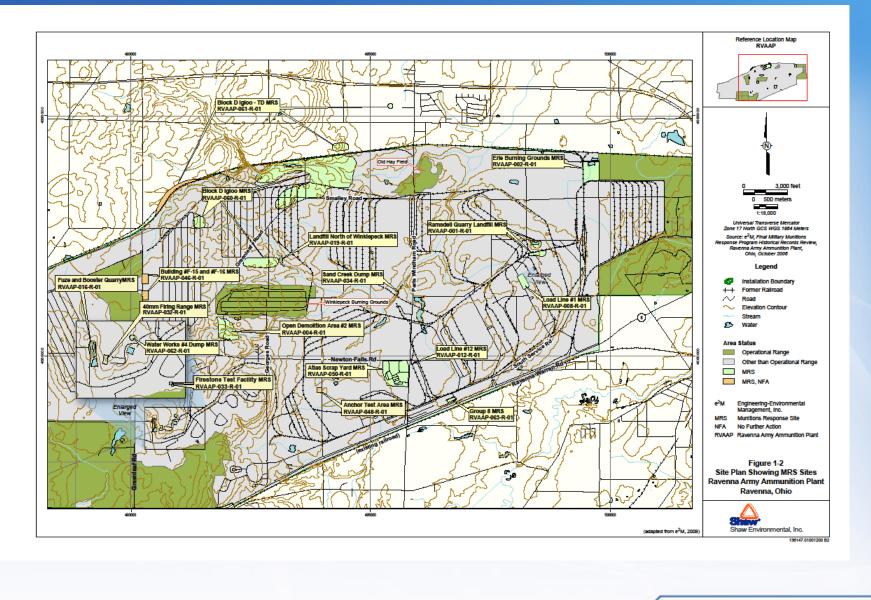
- Contracting Vehicle: USACE-Baltimore MAMMS
- Contract Type: Performance Based Acquisition (PBA)
- Army Oversight: USACE-Louisville, USACE-Baltimore
- Project Award Date: 28 May 2009
- Performance Goal: Complete RIs within 3 years of Notice to Proceed (NTP), Attain Remedy in Place (RIP) (4 sites only) within 5 years of NTP
- 14 sites covered under the contract (all funded)

MMRP RIs Current Project Status

- Contract Award on 28 May 2009
- 10 RI Sites and 4 RIP sites funded
 - RI sites ODA #2, Block D Igloo, Atlas Scrap Yard, Ramsdell Quarry, Landfill North of Winklepeck, Erie Burning Ground, Group 8 MRS, Fuze and Booster Quarry, Block D-TD, and 40mm Range.
 - RIP Sites Load Line 1, Firestone Test Facility, Sand Creek Landfill Site, and Water Works 4.
- Final Project Management Plan and project specific plans Complete
- Final Workplan (First 7 sites) Complete
- Final Health and Safety Plan (HASP) Complete
- Final Workplan (second 7 sites) *Essentially Complete (Ohio EPA approval pending)*

Red = Sites included in initial set of sites funded ("First 7")





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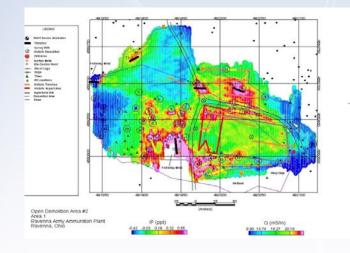
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MMRP RIs Current Project Status

- Field Work for 2011 (April January 2012)
 - RI activities for 14 sites (14 currently ongoing in field)
 - Tasks include:
 - Geophysical surveys
 - Visual Inspections
 - Anomaly investigation/trenching
 - MC sampling soil, surface water, and sediments
 - Work performed by geophysicists and MEC technicians
 - Intent of data collection is to develop a site model that:
 - Represents the conditions related to MEC and MC;
 - Evaluates the likelihood of any remaining MEC;
 - Evaluates environmental impacts related to MEC;
 - Aids in developing a path forward for each site
 - Currently about 95% complete on RI field activities for first 7 sites and 65% complete on second 7 sites

MMRP RIs Current Field Activities





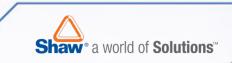
Investigation Activities

- Digital mapping surveys
- Magnetometer Surveys
- Anomaly Investigations
- Soil Sampling
- Demolition events

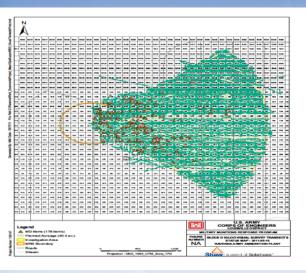


MMRP RIs Summary of Field Work

Site Name	Investigati on Complete	Anomaly Reacquisition/Dig Complete	Sampling Complete	Shaw Proposed Completion
RVAAP-004-R-01 - ODA #2	x	x	Х	Oct 2011
RVAAP-060-R-01 - Block D Igloo	x	X	Х	Aug 2011
RVAAP-050-R-01 - Atlas Scrap Yard	X	x	Х	Nov 2011
RVAAP-001-R-01 - Ramsdell Quarry	X	75%	50%	May 2012
RVAAP-019-R-01 - Landfill N. of Winklepeck	x	x	Х	Oct 2012
RVAAP-008-R-01 - Load Line #1	75%	N/A	50%	May 2012
RVAAP-033-R-01 – Firestone Testing Facility	X	Х	Х	Sept 2011
RVAAP-063-R-01 - Group 8 MRS	X	65%		Jan 2012
RVAAP-034-R-01 - Sand Creek Dump	X			May 2014
RVAAP-016-R-01 - Fuze/Booster	X			Jan 2012
RVAAP-002-R-01 - Erie Burning Grounds	30%			May 2012
RVAAP-032-R-01 - 40-mm Firing Range	x	Х		Jan 2012
RVAAP-062-R-01 - Water Works #4	X	Х	х	Dec 2011
RVAAP-061-R-01 - Block D Igloo – TD	N/A	N/A	N/A	May 2012



MMRP RIs Field Activities

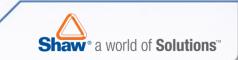










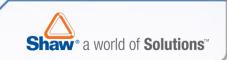


MMRP RIs Field Activities



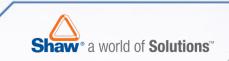


- Results to date
 - MEC primarily in ODA2What was found?
 - Fragments of 155 mm,
 105 mm, 81 mm, 60 mm
 - Fuzes
 - No intact munitions
 - After Ohio EPA approval, demolition event in July and October destroyed recovered MEC/MPPEH
 - Soil and sediment samples collected
 - Investigation results will be presented in RI reports



MMRP RIs Schedule of Work

Site Name	PWS Objective	Shaw Proposed Completion
RVAAP-004-R-01 - ODA #2	RI by 29 May 2012	April 2012
RVAAP-060-R-01 - Block D Igloo	RI by 29 May 2012	March 2012
RVAAP-050-R-01 - Atlas Scrap Yard	RI by 29 May 2012	April 2012
RVAAP-001-R-01 - Ramsdell Quarry	RI by 29 May 2012	March 2012
RVAAP-019-R-01 - Landfill N. of Winklepeck	RI by 29 May 2012	April 2012
RVAAP-008-R-01 - Load Line #1	RIP by 29 May 2014	February 2013
RVAAP-033-R-01 – Firestone Testing Facility	RIP by 29 May 2014	May 2014
RVAAP-063-R-01 - Group 8 MRS (Option 1)	RI by 29 April 2013	September 2012
RVAAP-034-R-01 - Sand Creek Dump (Option 2)	RIP by 29 April 2015	May 2014
RVAAP-016-R-01 - Fuze/Booster Quarry (Option 3)	RI by 29 April 2013	September 2012
RVAAP-002-R-01 - Erie Burning Grounds (Option 4)	RI by 29 April 2013	December 2012
RVAAP-032-R-01 - 40-mm Firing Range (Option 5)	RI by 29 April 2013	September 2012
RVAAP-062-R-01 - Water Works #4 (Option 6)	RIP by 29 April 2015	June 2014
RVAAP-061-R-01 - Block D Igloo – TD (Option 7)	RI by 29 April 2013	December 2012



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Shaw RVAAP Work Update

Questions?