

cc: W. E. Montgomery  
D. G. Lischak  
File

May 7, 1979

Contracting Officer's Representative  
Ravenna Army Ammunition Plant  
Ravenna, Ohio 44266

Subject: APAP - Resource Conservation and Recovery Act (RCRA)  
(DRSAR-ISE Message 272130Z Apr 79)

Dear Sir:

The following drawings depicting active and inactive  
landfill sites are enclosed per subject request:

<u>Drawing No.</u>	<u>Description</u>
A-109	General Area Map
1500.28	Burning Ground Landfill Site (Inactive)
1500.33	Ramsdell Quarry Landfill Site (Active)

Sincerely,

RAVENNA ARSENAL, INC.

H. R. Cooper  
Supervisory Engineer

DGL:jb

3 Attachments (trip)  
a/s

RAVENNA ARSENAL, INC.  
RAVENNA, OHIO 44266

RAVENNA ARMY AMMUNITION PLANT

JANUARY 1979

SOLID WASTE MANAGEMENT PLAN.

Ravenna Army Ammunition Plant has within its boundaries two (2) sites which are being proposed to be used for sanitary landfill purposes.

The first site, which will be designated as the Burning Ground Landfill, is located approximately in the center of the installation as shown on Drawing A109, Attachment #1.

At present, this site is considered inactive due to the standby status in which all production facilities are being held; however, if plant status changes and production begins the site may be reopened.

The second site, which will be designated as the Ramsdell Quarry, is located in the Northeastern section of the installation. It too is shown on Attachment #1.

The two sites will be operated by Ravenna Arsenal, Inc., a subsidiary of the Firestone Tire and Rubber Company, solely for the use and benefit of the Ravenna Army Ammunition Plant production and support facilities and personnel living and working on post.

All land within the boundaries of this installation is owned by the Federal Government with its rights for use given to the U. S. Army. Access to the installation by the public is restricted.

There are no specific land uses within a thousand (1000) feet of any site, and there are no public roads within a thousand (1000) feet of any site. All roads leading to the sites are private and for official use only by the government vehicles and personnel on the installation.

There are no utilities within one thousand (1000) feet of either site.

There are no wells, mines or deep mines within two thousand (2000) feet of either site.

The existing topography and the topography of the area within one thousand (1000) feet of the sites are shown on Drawing A-3683 and A-3684, Attachments #2 and #3.

The proposed final topographies of the areas are also shown on these drawings.

No special drainage systems are necessary for erosion control, and no exploratory program was made for the location of the sites.

The water table is significantly below the site areas and no water is used from the table near these sites at any time, for any purpose.

The areas prevailing winds blow from the southwest.

The types of wastes received and the approximate weekly quantity of each type is given below:

<u>RESIDENTIAL</u>	<u>COMMERCIAL</u>	<u>INDUSTRIAL</u>
Trash - 1500#	Construction and demolition - 6000#	Varies in type and quantity with the mission assigned the plant by the government.

There is no excavating necessary prior to the deposit of any waste materials into the Ramsdell Quarry landfill site.

Since the Burning Ground landfill is inactive no excavation is done; however, if the need arises to reopen the Burning Ground the trench method will be used in filling the site and excavation of the trench will be necessary.

The wastes are taken by truck, either rear-loading compactors for the residential waste or by dump truck for commercial construction waste, to the plant scales where weight and waste types are recorded.

Access to the landfill sites are only authorized after weighing and recording has been accomplished.

Vehicles are then spotted for proper dumping.

The ramp or progressive-slope method is used for filling the Ramsdell Quarry site. In this method, the waste is deposited and spread in layers to a predetermined height on an angle against the side of the quarry. The normal maximum height of a cell is 6 meters, or less. Cover soil is then placed on the sloped sides and top of the cell at the end of each day's operation.

The collection vehicles deposit their wastes at the top of the working face of the fill.

Suitable cover material for the Ramsdell Quarry landfill is obtained by having it brought in from areas of construction during the year and deposited on areas of the quarry already filled.

A crawler tractor (D7 Dozer - Weight 45,020#) is used to compact the refuse and add six (6) inches of cover material.

The final surface of the completed landfill will be designed to prevent ponding of precipitation. Grading of the final surface will induce drainage; however, it will not be to such an extreme to erode away the cover material.

Figure #1 is a typical cross section of the Quarry site; how the cells are located, and the cover material applied.

Due to the small amounts of waste received and the isolated locations of the landfills no problems exist with odors, noise or litter. No leachate problems materialize due to the solid rock bottom of the Quarry site, nor do they exist at the Burning Ground site, when in use.

At the present rate of fill, it is estimated to take approximately one hundred (100) years to close the sites.

After the facilities are filled they will be graded for final seeding and planting for use by natural habitat.

All areas where waste materials have been, are being, and will be deposited, are marked on Drawing 1500-28 and 1500-33, Attachments #4 and #5.

The facilities will be closed only after each site has been filled to such a degree as to allow for a two (2) foot final cover. Final compacting, grading and seeding will then be accomplished, closing the sites permanently.