

U.S. ENVIRONMENTAL PROTECTION AGENCY

Superior Barrel and Drum - Removal Update



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: Removal Update

**Subcontract Awarded for Transport and Disposal of Acidic, Basic and Flammable Materials
Superior Barrel and Drum
Elk, NJ
Latitude: 39.6930670 Longitude: -75.1345550**

From: Margaret Gregor,
OSC/Environmental Scientist
Date: 1/27/2013
Reporting Period: January 21, 2014 through
January 26, 2014

FOR PREVIOUS REMOVAL UPDATES, PLEASE CONTACT: glenn.keith@epa.gov

Current Activities

The sorting and transferring of on-site containers to the appropriate waste group staging areas continued. All containers of neutral, acid, base, flammable and combustible materials have been located and staged. The majority of the containers in these waste groups have been overpacked (if drums) and/or prepared for shipping in accordance with Department of Transportation (DOT) regulations. Bulking of small-volume flammable liquids was completed, and all acids, combustible acids, and bases have been staged in the on-site warming room in preparation for being transported off-site.

The subcontract was awarded for the transport and treatment, recycling and/or disposal of the majority of the on-site flammables, acids and bases.

The EPA continued to work with numerous partners including the Gloucester County Fire Marshal's Office, HazMat Team, NJDEP, U.S. Fish and Wildlife Service, and local officials. NJDEP personnel continued weekly visitations and communication with Elk Township officials also continued. Security personnel continued to patrol the site during non-operational hours.

Response Actions to Date

To view removal actions completed during other operational periods, please refer to previous Removal Updates.

On January 21, 2014, the subcontract was awarded for the transport, treatment and disposal of the majority of the on-site acids, bases and flammable materials. The list of materials included with this subcontract includes 23 shipping groups, which were formed based on similar characteristics of the materials (i.e., corrosive, organic, inorganic, liquid, solid, combustible, flammable, etc.). For each of these shipping groups, a waste profile must be developed for the disposal facilities which details the shipping group's characteristics and includes the analytical results of the samples (composite or grab) from that group. On January 22, 2014, the EPA approved the waste profile for one of these 23 shipping groups: waste inorganic liquids. The other profiles are being prepared.

Between January 21 and 24, 2014, staging of all containers of acids, bases, flammable and combustible materials was completed, in preparation for shipment. Overpacking of drums continued. All acids (waste stream A1), combustible acids (A2) and bases (B2) were moved into the on-site warming room so they can thaw prior to being shipped off-site. On January 24, 2014, bulking of low-volume flammable liquids was conducted.

On January 22, 2014, approximately 70 samples in the N1 and N3 waste groups were shipped to the EPA PHILIS laboratory in Edison, NJ for volatile organic compound analysis. Screening level results will be provided, which will aid in removing containers of hazardous constituents from this bulked waste group. If results are adequate for singling out containers of hazardous materials, samples of all neutral materials (as categorized during HazCat field testing) may be sent to the PHILIS lab as a pilot project. This will facilitate composite sampling and bulking of the neutral waste streams. Composite sampling was put on hold for the week; no composite samples were collected, and efforts were focused on updating the tracking databases to resolve waste stream discrepancies.

RST continued to provide perimeter and spot air monitoring to ensure the safety of personnel and surrounding properties. Additionally, RST continued to manage the SCRIBE and Response Manager databases. A pilot project to generate the first site-specific Flex Viewer is currently underway. This visual, interactive map will give EPA management the ability to monitor the Common Operating Picture (COP) of site activities.

Progress Metrics

Waste Stream	Sub-Class	Composite Samples Collected	Amount of Containers in Composite
NEUTRAL			
	N1	1	35
	N2	0	-
	N3a	1	35
	N3b		-
	N4	0	-
	N5	0	-
	N6	0	-
	N7	0	-
FLAMMABLE			
	F1a	1	33
	F1b	1	12
	F1c	1	11
	F1d	1	9
	F1e	1	12

	F1f (Liquid Brown)	1	12
	F1g (Liquid Brown)	1	12
	F1h (Liquid Brown on Water)	1	12
	F1i (Liquid Amber)	1	10
	F1j (Liquid Brown)	1	12
	F1k (Misc. Liquid)	1	12
	F1 Grab	4	*
	F2a (Powder)	1	10
	F2b (Soil)	1	11
	F2c (Solid Chunks)	1	8
	F2d (Gel)	1	3
	F2e (Misc. Solid)	1	6
	F3a (Sludge Red)	1	12
	F3b (Sludge Browns)	1	12
	F3c (Sludge Browns)	1	12
	F3d (Sludge Browns)	1	10
	F3e (Sludge Browns)	1	11
	F3f (Misc. Sludge)	1	12
	F3 Grab	1	*
	F4a (Acid Dark)	1	13
	F4b (Acid Light)	1	5
	F4c (Acid Brown)	1	12
	F4d (Acid Tan)	1	7
	F4e (Acid Sludge)	1	4
	F5a (Base)	1	7
	F6a (Paint Red/Cream)	1	8
	F6b (Paint Blue)	1	12
	F7a (Resin Clear)	1	5
	F7b (Resin Gray Sludge)	1	4
	F7c (Resin Red Sludge)	1	6
	F7d (Resin Black Liquid)	1	4
	F7e (Resin (Gold)	1	3
	F7f (Resin Brown)	1	5
	F7g (Resin Tan)	1	4
	F7h (Resin Multicolor)	1	7
	F7i (Resin White)	1	3
	F7j (Resin Red)	1	2
	F8a (Adhesive Black)	1	3
	F8b (Adhesive Red Orange)	1	3
	F8c (Adhesive Brown)	1	5
	F8d (Adhesive Green Yellow)	1	5
	F8e (Adhesive Tan)	1	2
	F8f (Adhesive Gray Blue)	1	4
	F8g (Adhesive Red Orange)	1	6
	F8h (Adhesive (Green Gray)	1	9
ACID			
	A1a (pH=4; low viscosity)	1	12
	A1b (pH=4; high viscosity)	1	10

	A1c (pH=3)	1	11
	A1d (Acidic Solids)	1	5
	A1e (pH=1)	1	3
	A1f (pH=2)	1	7
	Grab (difference in properties prevent from bulking)	11	*
	A2a (pH=3-4)	1	11
	A2b (pH=3-4)	1	12
BASE			
	B1a (pH=14)	1	2
	B1b (pH=14)	1	2
	B1c (pH=13)	1	2
	B1d (pH=13)	1	8
	B1e (pH=12)	1	4
	B1f (pH=11)	1	7
	B1g (pH=10)	1	7
	B1h (pH=10)	1	5
	B1i (pH=10)	1	7
	B1j (pH=11)	1	4
	B1k (pH=11)	1	9
	B1l (pH=14)	1	3
	B1m (pH=13)	1	2
	B1n (pH=13)	1	3
	B1o (pH=12)	1	4
	B1p (pH=10)	1	2
	B1q (pH=10)	1	2
	B1 Grab (difference in properties prevent from bulking)	5	*
	B2a (Combustible Low Sludge)	1	11
	B2b (Combustible High Sludge)	1	10
	B2 Grab (Combustible)	3	*

* Grab samples are collected from one container and are not bulked due to unique features.

Planned Response Activities

Collaboration between EPA, NJDEP, FWS, County, and local officials will continue throughout the removal activities at the Superior Barrel and Drum Site.

During the next operational period, transport and disposal will be scheduled for the waste inorganic liquid shipping group, for which a waste profile has been approved. Wastes may be shipped off-site as early as the end of the week of January 27, 2014. Waste profiles for the other shipping groups will be developed and approved. All disposal facilities for these shipping groups will be checked for regulatory compliance under the Off-Site Rule.

The EPA PHILIS laboratory will provide analytical results for the samples from the N1 and N3 waste streams. These results may aid in determining which containers should be removed from these waste streams, due to hazardous characteristics. Abbreviated HazCat field testing of the on-site oxidizers will continue, to determine if the volume for this waste stream can be reduced.

On-site personnel will continue to stage containers in their respective waste groups, and composite samples will be collected from each group.

Issues

On January 21, 2014, a heavy snowstorm forced closure of the site at noon when the snow became too thick for safely working and commuting from the site. On January 22, 2014, grouping of waste streams and overpacking activities were slowed due to thick layer of snow, plowing of the site and the extreme cold temperature.