U.S. ENVIRONMENTAL PROTECTION AGENCY

Superior Barrel and Drum - Removal Update

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: Removal Update
Second Transport and Disposal Subcontract Awarded
Superior Barrel and Drum
Elk, NJ
Latitude: 39.6930670 Longitude: -75.1345550

From:	Margaret Gregor, OSC/Environmental Scientist
Date:	3/24/2014
Reporting Period:	March 17, 2014 through March 23, 2014

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

Current Activities

The second subcontract was awarded for transportation and disposal (T&D) of site wastes. Several propane tanks were removed from the site, but no other wastes were removed during the operational period while the subcontract and associated disposal documents were processed. Chemists focused on the collection of the remaining composite samples of hazardous wastes and conducted bench-scale studies for waste groups which will be bulked into tankers for off-site T&D.

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 contact Keith Glenn at 732-321-4454 or email: glenn.keith@epa.gov.

On March 19, 2014, the second subcontract for T&D of site wastes was awarded, following receipt of addenda for the bids. This subcontract is for the T&D of approximately 500 on-site containers of hazardous substances. Personnel are preparing waste profiles of the shipping groups for disposal, and the EPA has completed and signed 17 waste profiles to date. Requests were sent in for an Off-Site Rule check for each of the planned disposal facilties to ensure regulatory

compliance. Chemists conducted bench-scale testing (mixing of composite samples) for two groups which will be removed in bulk via tanker truck: flammable liquids and Class 9 liquids. On March 19, 2014, a representative of the T&D subcontract (waste broker) visited the site and collected samples of these liquid mixtures, representing the bulked waste streams, for separate analysis by two disposal facilities. In addition, site management is evaluating options for bulk T&D of Class 9 sludges, Class 4.1 flammable solids and other materials.

Following the removal of bulked flammable liquids two weeks ago, personnel completed the removal and consolidation of flammable sludge, solids and residual materials left over in the bottom of drums and totes. All materials were consolidated into totes for future disposal.

Crew focused on preparing materials within the second subcontract for shipment. Containers of flammable liquids which will be removed in bulk by tanker truck were brought to the on-site warming room and segregated; this operation will continue during the next operational period. In addition, personnel prepared the non-liquid neutral waste streams which cannot be bulked for shipment (including N7 - latex/paints and N8 - liquids on solids). Personnel also replaced worn and tattered safety fencing along Jacob Harris Lane.

On March 20, 2014, Suburban Propane arrived on-site and collected 10 gas cylinders for recycling. The three remaining large propane tanks could not be collected by the on-site truck, but the company is scheduling their removal for the near future.

In addition to bench scale testing, chemists continued collecting the remaining composite samples for disposal, including neutral latex/paints and liquids on solids. Chemists also continued collection of neutral liquid samples for screening purposes, to facilitate future collection of composite samples with similar characteristics. Chemists are reviewing screening results from the first three rounds of screening sampling and have begun forming composite sampling schemes.

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.

Progress Metrics

Waste Stream	Sub-Class	CompositeSamples Collected	Amount of Containers in Composite
NEUTRAL			
	N1	1	35
	N2	0	-
	N3a	1	35
	N3b		-
	N4	0	-
	N5 a & b (Composite 33 and 34)	2	78 (39 and 39)
	N6 a, b, c, d, e (solids), f (liquids) (Composites 35, 36, 37, 38, 39 and 40)	6	198 (34, 35, 34, 32, 27 and 36, respectively)
	N7 (Composite 41)	1	20
	N8 (Composite 42)	1	21
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
	Composite 24 (Flammable Sludge)	1	11
	Composite 25 (Flammable Liquid)	1	9
	Composite 28 (Flammable Paint and Adhesive)	1	9
	Composite 29 (Flammable Liquid)	1	6
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
	Composite 26 (Flammable Acid)	1	13
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	*
	Composite 23 (General Base Liquid)	1	12
	Composite 27 (Flammable Base)	1	9
COMBUSTIBLE			
	Composite 1 (Combustible Organic Liquid with Neutral Liquid, Black/Brown)	1	12
	Composite 2 (Combustible Organic Liquid with Neutral Liquid, Brown)	1	12
	Composite 3 (Combustible Liquid with Neutral Liquid, Brown/Tan/Red)	1	12
	Composite 4 (Combustible Liquid with Neutral Liquid, Black/Brown)	1	12
	Composite 5 (Combustible Organic Liquid with Neutral Liquid, Multicolor)	1	12
	Composite 6 (Combustible Solid, Brown/Multicolor)	1	12
	Composite 7 (Combustible	1	12

	Solid, Black/Brown)		
	Composite 8 (Combustible Liquids and Sludges, Black/Brown/Multicolor)	1	12
	Composite 9 (Combustible Liquids, Black/Brown, Multicolor)	1	12
	Composite 10 (Combustible Liquids, Brown)	1	12
	Composite 11 (Combustible Organic Liquids, Brown/ Multicolor)	1	12
	Composite 12 (Combustible Liquid Mixtures, Brown/ Multicolor)	1	12
	Composite 13 (Combustible Organic Liquid Mixtures, Brown/Multicolor)	1	12
	Composite 14 (Combustible Solids, Black or Brown)	1	12
	Composite 15 (Combustible Solids, Brown/Multicolor)	1	11
	Composite 16 (Combustible Sludges, Brown/Multicolor)	1	12
	Composite 17 (Combustible Solids and Resins, Brown/Multicolor)	1	12
	Composite 18 (Combustible Liquids and Solids, Yellow/Multicolor)	1	12
	Composite 19 (Combustible Liquid/Solid Mixtures, Black/Brown)	1	9
	Composite 20 (Combustible Organic Liquids and Sludges, Multicolor)	1	11
	Composite 32 (Combustible Sludge)	1	9
OXIDIZER			
	Composite 21 (Oxidizing Solids)	1	11
	Composite 30 (Oxidizing Organic Liquid on Water)	1	8
CHLORINATED			
	Composite 23 (Chlorinated / PCB)	1	12
WATER REACTIVE			
	Composite 31 (Water Reactive)	1	7

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

Date Shipped	*Waste Stream*	*Medium*	*Quantity*	*Manifest #*	*Treatment*	*Disposal*
1/30/2014	Waste Inorganic Liquid	Liquid Wastes	4,500 gallons (37 containers)	012500207	Solidification (Proposed)	Cumberland County Landfill (Interstate Waste Services), 135 Vaughn Road, Shippensburg, PA 17257
2/6/2014	Waste Flammable Solid	Solid Wastes	982 gallons (7 containers)	012500266	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
2/6/2014	Waste Flammable Corrosive, Acidic Solid	Solid Wastes	55 gallons (1 container)	012500266	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
2/6/2014	Waste Corrosive, Inorganic, Acidic Liquid	Liquid Wastes	381 gallons (9 containers)	012500266	Aqueous Treatment (Proposed)	EQ of Detroit, Inc., 1923 Frederick Street, Detroit, MI 48211
2/6/2014	Waste Chromium and Lead Contaminated Solid	Solid Wastes	168 gallons (4 containers)	012500266	Stabilization/ Landfill (Proposed)	Envirosafe Services of Ohio, 876 Otter Creek Road, Oregon, OH 43616
2/6/2014	Waste Mercury Contaminated Corrosive, Inorganic, Acidic Liquid	Liquid Wastes	165 gallons (3 containers)	012500266	Aqueous Treatment (Proposed)	EQ of Detroit, Inc., 1923 Frederick Street, Detroit, MI 48211
2/6/2014	Waste Corrosive, Acidic Liquid Mixture	Mixed Wastes	92 gallons (2 containers)	012500266	Aqueous Treatment (Proposed)	EQ of Detroit, Inc., 1923 Frederick Street, Detroit, MI 48211
2/6/2014	Waste Corrosive, Organic, Acidic Liquid	Liquid Wastes	55 gallons (1 container)	012500266	Aqueous Treatment (Proposed)	EQ of Detroit, Inc., 1923 Frederick Street, Detroit, MI 48211
2/6/2014	Waste Flammable Liquid and Solid Mixture	Solid Wastes	475 gallons (9 containers)	012500266	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
2/6/2014	Waste Flammable Liquid and Solid Mixture	Mixed Wastes	1,362 gallons (11 containers)	012500266	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
2/20/2014	Waste Corrosive, Inorganic, Basic Liquid	Liquid Wastes	1,509 gallons(13 containers)	12500358	Deep Well Injection(Proposed)	Vickery Environmental, Inc, 3956 State Route 412, Vickery, OH

						43464
2/20/2014	Waste Corrosive, Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	190 gallons(2 containers)	12500358	Deep Well Injection(Proposed)	Vickery Environmental, Inc, 3956 State Route 412, Vickery, OH 43464
2/20/2014	Waste Corrosive, Lead Contaminated, Inorganic, Basic Liquid	Liquid Wastes	475 gallons(5 containers)	12500358	Deep Well Injection(Proposed)	Vickery Environmental, Inc, 3956 State Route 412, Vickery, OH 43464
2/20/2014	Waste Corrosive, Lead Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	190 gallons(2 containers)	12500358	Deep Well Injection(Proposed)	Vickery Environmental, Inc, 3956 State Route 412, Vickery, OH 43464
2/20/2014	Waste Corrosive, Chromium Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	1,285 gallons (7 containers)	12500358	Deep Well Injection(Proposed)	Vickery Environmental, Inc, 3956 State Route 412, Vickery, OH 43464
2/20/2014	Selenium Contaminated Liquid	Liquid Wastes	1,285 gallons (7 containers)	12500358	Deep Well Injection(Proposed)	Vickery Environmental, Inc, 3956 State Route 412, Vickery, OH 43464
2/20/2014	Waste Corrosive, Organic, Basic Liquid	Liquid Wastes	285 gallons(3 containers)	12500358	Deep Well Injection(Proposed)	Vickery Environmental, Inc, 3956 State Route 412, Vickery, OH 43464
2/27/2014	Waste Flammable, Chloroform Contaminated	Liquid Wastes	1270 gallons (10 containers)	12500457	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
2/27/2014	Benzene Contaminated Liquid	Liquid Wastes	1840 (9 Containers)	12500457	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
2/27/2014	Waste Corrosive, Organic, Basic Liquid	Liquid Wastes	95 gallons (1 Container)	12500457	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
2/27/2014	Lead Contaminated Liquid	Liquid Wastes	250 gallons (1 container)	12500457	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044

2/28/2014	Waste, Flammable Liquid	Liquid Wastes	4700 gallons(24 containers)	11519302	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
3/5/2014	Waste, Flammable Liquid	Liquid Wastes	5000 gallons(55 containers)	11519349	Incineration (Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
3/7/2014	Waste, Flammable Liquid	Liquid Wastes	4,500 gallons(50 containers)	11519380	Incineration(Proposed)	Ross Incineration Services, Inc., 36790 Giles Road, Grafton, OH 44044
3/20/2014	Propane	Empty Containers and Liquid Propane	10 cylinders	Not Applicable	Recycling	Suburban Propane, 997 N. Pearl Street, Bridgeton, NJ 08302

Planned Response Activities

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

Disposal of bulked flammable and Class 9 liquids will occur during the next operational period. Each disposal facility will be checked for regulatory compliance under the Off-Site Rule (OSR). Following profile approval by the disposal facilities and EPA approval of the facilites under the OSR, T&D of these materials will be scheduled.

Additional screening samples will be collected and sent to the PHILIS and Region 2 DESA Laboratory for volatile organic compound (VOC) and heavy metal analysis. Samples of neutral liquid wastes (the "N" series) will continue to be collected and sent to the laboratory for screening purposes. The OEM PHILIS Laboratory will analyze head-space for the presence of VOCs. The Region 2 DESA Laboratory will screen the samples for the presence of heavy metals. The results will enable onsite managers and chemists to develop more efficient composite sampling schemes for these materials.

Personnel will continue to prepare containers for disposal. Suburban Propane has indicated that they will return in the near future to collect the remaining three large gas cylinders.

RST will continue to work with EPA on the development of a Common Operational Picture (COP) utilizing FlexViewer. RST personnel will continue perimeter air monitoring.

Additional action items that will be addressed include the propane tanks, container destruction, inspection of potentially buried underground storage tanks and drums, and collection of additional multi-media samples.

Issues

Snowfall on March 17, 2014 slowed on-site operations slightly. There are no other issues to report.