

U.S. ENVIRONMENTAL PROTECTION AGENCY

Superior Barrel and Drum - Removal Update



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region II

**Subject: Removal Update**  
**Warrant Extension Received**  
**Superior Barrel and Drum**  
**Elk, NJ**  
**Latitude: 39.6930670 Longitude: -75.1345550**

**From:** Keith Glenn,  
OSC/Environmental Scientist  
**Date:** 5/5/2014  
**Reporting Period:** April 28, 2014 through May 4,  
2014

**FOR PREVIOUS REMOVAL UPDATES, PLEASE CONTACT: [glenn.keith@epa.gov](mailto:glenn.keith@epa.gov)**

**Current Activities**

Operations commenced on April 28, 2014 following a week of site closure in observance of Easter and Passover holidays. Personnel continued to consolidate solidified material located in the bottom of containers that once held liquids which were removed under Subcontract 2. This material will be removed under Subcontract 3, which was awarded on April 25, 2014. Additionally, all remaining waste has been placed under transportation and disposal (T&D) Subcontract 4 which was drafted during the operational period.

Site management developed a comprehensive sampling design to include additional soil samples as well as ground water samples. A sediment sampling plan was drafted and approved to begin on May 5, 2014.

The warrant for conducting removal activities was set to expire in or around the end of May 2014. The EPA received an extension of the warrant on May 1, 2014 for continuing operations.

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. 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](mailto:glenn.keith@epa.gov).

All personnel reported back to the site on April 28, 2014 following a one-week holiday. ERRS crews continued preparation of containers for shipment. Subcontract 3 was awarded on April 25<sup>th</sup> and coordination with the broker for the disposal of wastes was conducted throughout the operational period. All containers identified in Subcontract 3 were staged in areas of easy access to bulk tankers. All profile sheets for waste under this subcontract were received, reviewed, and approved. Disposal facilities were investigated per the Off-Site Rule and approved where applicable. It is estimated that waste will be removed starting May 7th.

A sediment sampling design was generated under consultation with U.S. Fish and Wildlife, a Natural Resource Trustee. RST developed the necessary documents for sample collection, including a Quality Assurance Project Plan (QAPP) and Health and Safety Plan (HASP). Approximately 20 samples will be collected in the Federal Wetland, surrounding properties, distressed areas of the site, and locations known to be populated with endangered species. The EPA DESA Laboratory will be performing the analysis of samples. All access agreements have been received allowing samples to be collected on May 5, 2014. Additionally, EPA and RST have been developing other components of a comprehensive sampling project. This includes collecting soil samples at depth and installing temporary ground water wells for the purposes of testing for potential drinking water contamination. The draft plan is currently being reviewed and amended where appropriate.

On September 27, 2013 the EPA was given a warrant by a Federal Magistrate Judge to conduct removal actions at the Superior Barrel and Drum Site. This warrant was set to expire near the end of May 2014. On May 1, 2014 the EPA met with the Assistant United States Attorney's Office in Camden, NJ to request an extension on the warrant, which was granted. Removal activities may continue through October 2014.

ERRS generated a draft request for bid on the T&D of all remaining waste not identified in previous subcontracts. The draft documents were reviewed and alterations are in the process of being made. This subcontract, once awarded, will be the final T&D subcontract for the removal of wastes originating from containers found on-site.

RST continued to provide air monitoring to ensure the safety of personnel and surrounding properties. Additionally, RST continued to manage the SCRIBE and Response Manager databases.

## Progress Metrics

<i>Date Shipped</i>	<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal Facility</i>
1/30/2014	Waste Inorganic Liquid	Liquid Wastes	4,500 gallons (37 containers)	012500207	Neutralization, Landfill, Recycling, Incineration	Vickery Environmental, Advanced Disposal (CCL), Environmental Recovery, Heritage-WTI
2/6/2014	Waste Flammable Solid	Solid Wastes	982 gallons (7 containers)	012500266	Fuel Blending, Incineration	Ross Incineration Services; Geocycle; Buzzi Unicem USA
2/6/2014	Waste Flammable Corrosive, Acidic Solid	Solid Wastes	55 gallons (1 container)	012500266	Incineration	Heritage - WTI
2/6/2014	Waste Corrosive, Inorganic, Acidic Liquid	Liquid Wastes	381 gallons	012500266	Aqueous Treatment, Stabilization, Landfill	EQ of Detroit; Advanced

			(9 containers)			Disposal (CCL);Max Environmental
2/6/2014	Waste Chromium and Lead Contaminated Solid	Solid Wastes	168 gallons (4 containers)	012500266	Neutralization/Stabilization, Landfill	MAX Environmental; Vickery Environmental
2/6/2014	Waste Mercury Contaminated Corrosive, Inorganic, Acidic Liquid	Liquid Wastes	165 gallons (3 containers)	012500266	Aqueous Treatment	EQ of Detroit
2/6/2014	Waste Corrosive, Acidic Liquid Mixture	Mixed Wastes	92 gallons (2 containers)	012500266	Aqueous Treatment, Incineration	EQ of Detroit; Ross Incineration Services
2/6/2014	Waste Corrosive, Organic, Acidic Liquid	Liquid Wastes	55 gallons (1 container)	012500266	Landfill	Advanced Disposal (CCL)
2/6/2014	Waste Flammable Liquid and Solid Mixture	Solid Wastes	475 gallons (9 containers)	012500266	Incineration	Ross Incineration Services
2/6/2014	Waste Flammable Liquid and Solid Mixture	Mixed Wastes	1,362 gallons (11 containers)	012500266	Incineration; Fuel Blending	Ross Incineration Services; Geocycle
2/20/2014	Waste Corrosive, Inorganic, Basic Liquid	Liquid Wastes	1,509 gallons (13 containers)	12500358	Neutralization/ Landfill	Vickery Environmental, Inc and Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	190 gallons (2 containers)	12500358	Neutralization/ Landfill	Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Lead Contaminated, Inorganic, Basic Liquid	Liquid Wastes	475 gallons (5 containers)	12500358	Neutralization/ Stabilization/ Landfill	Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Lead Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	190 gallons (2 containers)	12500358	Stabilization/ Landfill	Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Chromium Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	1,235 gallons (7 containers)	12500358	Neutralization/ Landfill and Deep Well Injection	Vickery Environmental, Inc.
2/20/2014	Selenium Contaminated Liquid	Liquid Wastes	1,285 gallons (7 containers)	12500358	Neutralization/ Landfill	Max Environmental Technologies, Inc.

2/20/2014	Waste Corrosive, Organic, Basic Liquid	Liquid Wastes	285 gallons(3 containers)	12500358	Neutralization/ Stabilization/ Landfill	Max Environmental Technologies, Inc.
2/27/2014	Waste Flammable, Chloroform Contaminated	Liquid Wastes	1270 gallons (10 containers)	12500457	Incineration,Fuel Blending	Ross Incineration Services; Geocycle; Heritage - WTI
2/27/2014	Benzene Contaminated Liquid	Liquid Wastes	1840 (9 Containers )	12500457	Incineration;Fuel Blending	Ross Incineration Services; Geocycle
2/27/2014	Waste Corrosive, Organic, Basic Liquid	Liquid Wastes	95 gallons (1 Container)	12500457	Stabilization/Landfill	Max Environmental
2/27/2014	Lead Contaminated Liquid	Liquid Wastes	250 gallons (1 container)	12500457	Neutralization/Landfill	Max Environmental
2/28/2014	Waste, Flammable Liquid	Liquid Wastes	4700 gallons (24 containers)	11519302	Incineration (Proposed)	Ross Incineration Services, Inc.
3/5/2014	Waste, Flammable Liquid	Liquid Wastes	5000 gallons (55 containers)	11519349	Fuel Blending/ Incineration, Ultrafiltration, Chemical Precipitation and Carbon Absorption	Tradebe Treatment and Recycling Northeast LLC
3/7/2014	Waste, Flammable Liquid	Liquid Wastes	4,500 gallons (50 containers)	11519380	Fuel Blending/ Incineration, Ultrafiltration, Chemical Precipitation and Carbon Absorption	Tradebe Treatment and Recycling Northeast LLC
3/20/2014	Propane	Liquid Propane	10 cylinders	WO#0472701	Recycling	Suburban Propane
3/28/2014	Waste, Flammable Corrosive Acidic Liquid	Liquid Waste	625 gallons (2 containers)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Chromium and Lead Sludge	Mixed Waste	250 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Lead and Benzene Sludge	Mixed Waste	250 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Liquid	Liquid Waste	250 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Flammable Paint Related	Liquid Waste	1200 gallons (2 containers)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Lead Contaminated	Liquid Waste	1250 gallons (5 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Solid	Solid Waste	275 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Corrosive Acidic Resin/Water Mix	Mixed Waste	350 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

3/28/2014	Waste, Flammable Corrosive Acidic Resin	Mixed Waste	275 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Solid	Solid Waste	1250 gallons (2 containers)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic	Liquid Waste	440 gallons(8 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic	Liquid Waste	275 gallons(5 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic Resin Sludge	Mixed Waste	110 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Liquid, Lab Flash	Liquid Waste	40 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic Resin	Mixed Waste	275 gallons(5 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic	Liquid Waste	660 gallons(12 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic Resin/Water Mix	Mixed Waste	165 gallons(3 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic Resin Sludge	Mixed Waste	110 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Basic Inorganic/Organic Mix	Liquid Waste	55 gallons(1 container)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Paint Related	Liquid Waste	216 gallons(10 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Lead Contaminated	Liquid Waste	40 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Corrosive Inorganic Basic	Liquid Waste	110 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Paint Related Material	Liquid Waste	1020 gallons(12 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Chromium and Lead Contaminated Sludge	Mixed Waste	510 gallons(6 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Lead and Benzene Contaminated Sludge	Mixed Waste	765 gallons(9 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

4/3/2014	Flammable Liquid	Liquid Waste	85 gallons(1 container)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Sludge	Mixed Waste	170 gallons(2 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Liquid/Sludge	Mixed Waste	1045 gallons(11 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Liquid	Liquid Waste	255 gallons(3 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Lead Contaminated Liquid	Liquid Waste	95 gallons(1 container)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Paint Related Material	Liquid Waste	425 gallons(5 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Sludge	Mixed Waste	765 gallons(9 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Lead and Benzene Contaminated Liquid	Mixed Waste	170 gallons(2 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Lead Contaminated Sludge	Mixed Waste	1020 gallons(12 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Lead Contaminated Sludge	Mixed Waste	340 gallons(4 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Solid	Solid Waste	2795 gallons(35 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	MEK Contaminated Liquid	Liquid Waste	760 gallons(8 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Solid	Solid Waste	95 gallons(1 container)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/8/2014	Flammable Chromium, Lead and Chloroform Contaminated Liquid/Water Mixture	Liquid Waste	3366 gallons (35 containers)	12224919	Fuel Blending (Proposed)	Veolia Environmental Services
4/8/2014	Propane	Liquid Propane	3 cylinders	WO#0472709	Recycling	Suburban Propane
4/9/2014	Flammable Resin Sludge	Mixed Waste	765 gallons (9 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Lead and Chromium Contaminated Liquid/Water Mix	Liquid Waste	85 gallons (1 container)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

4/9/2014	Flammable Lead Contaminated Resin Solids	Solid Waste	1200 gallons (4 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Resin Solids	Solid Waste	1500 gallons (5 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Adhesive	Mixed Waste	170 gallons (2 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Adhesive	Mixed Waste	680 gallons (8 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Adhesive	Mixed Waste	255 gallons (3 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Liquid	Liquid Waste	265 gallons (3 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Class 4.1 Flammable Solids	Solid Waste	6300 gallons (21 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/10/2014	Flammable Chromium, Lead and Chloroform Contaminated Liquid/Water Mixture	Liquid Waste	2800 gallons (45 containers)	12224950	Fuel Blending (Proposed)	Veolia Environmental Services
4/14/2014	Flammable Chromium, Benzene, Lead Contaminated Liquid	Liquid Waste	3531 gallons(36 containers)	12224949	Fuel Blending (Proposed)	Veolia Environmental Services
4/16/2014	Flammable Chromium, Benzene, Lead Contaminated Liquid	Liquid Waste	3416 gallons(24 containers)	12224978	Fuel Blending (Proposed)	Veolia Environmental Services
4/17/2014	Flammable Liquids	Liquid Waste	255 gallons(3 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Solids	Solid Waste	8700 pounds(29 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Liquids	Liquid Waste	595 gallons(7 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Resins and Paint	Solid Waste	1200 pounds(4 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Hazardous Waste (MEK, PCE)	Liquid Waste	850 gallons(10 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Liquids	Liquid Waste	1450 gallons(6 containers)	12224975	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

4/17/2014	Flammable Solids	Solid Waste	1400 pounds(2 containers)	12224975	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Hazardous Waste (MEK, PCE)	Liquid Waste	1000 gallons(4 containers)	12224975	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
DISPOSAL FACILITY					ADDRESS	
Cycle Chem/Clean Ventures Inc.					550 Industrial Drive, Lewisberry, PA 17339	
Cumberland County Landfill (Interstate Waste Services)					135 Vaughn Road, Shippensburg, PA 17257	
Envirosafe Services of Ohio					876 Otter Creek Road, Oregon, OH 43616	
EQ of Detroit, Inc.					1923 Frederick Street, Detroit, MI 48211	
Heritage-WTI					1250 St. George Street, East Liverpool, OH 43920	
Max Environmental Technologies, Inc.					Road #1, Yukon, PA 15698	
Ross Incineration Services, Inc.					36790 Giles Road, Grafton, OH 44044	
Suburban Propane					997 N. Pearl Street, Bridgeton, NJ 08302	
Tradebe Treatment and Recycling Northeast LLC					136 Gracey Avenue, Meriden, CT 06451	
Veolia Environmental Services					125 Factory Lane, Middlesex, NJ 08846	
Vickery Environmental, Inc.					3956 State Route 412, Vickery, OH 43464	

### 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.

ERRS will continue to stage containers identified for removal under T&D subcontract 3. These containers will be removed starting May 7, 2014. It is estimated that all material outlined in subcontract 3 will be removed by May 13, 2014. The T&D for all remaining containerized waste will be completed and submitted to various parties to bid on May 5<sup>th</sup>.

On May 5, 2014 EPA, FWS, and RST will collect sediment samples as per the approved plan. These samples will detail if contamination has been migrating via surface water pathways away from the site. Approximately 20 samples will be collected in the federal wetland, vernal pools located south of the facility, marsh areas along Jacob Harris Lane, the outfall of the Still Run, and areas occupied with endangered species.

The sampling design for ground water and additional soil samples will continue to be developed. Requests for consultation with a hydrogeologist have been placed within the region and the on-scene coordinators may reach out to ERT for limited support.

ERRS personnel will continue to prepare containers for shipment, including cleaning and staging for easier removal activities. Additionally, all empty containers will be consolidated in preparation for disposal. Local metal recycling companies will be contacted to determine options for removal of non-contaminated metal.

RST personnel will continue perimeter air monitoring.