

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Frankfort Asbestos Site-RV2 - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: POLREP #18
Progress
Frankfort Asbestos Site-RV2
02ZG
Frankfort, NY
Latitude: 43.0508400 Longitude: -75.0851710

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From: Irmgard Lopez, OSC
Date: 7/1/2014
Reporting Period: 06/23/14-06/27/14

1. Introduction

1.1 Background

Site Number:	02ZG	Contract Number:	EP-W-06-72
D.O. Number:	043	Action Memo Date:	
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	11/11/2013	Start Date:	11/11/2013
Demob Date:		Completion Date:	
CERCLIS ID:	NYN000206203	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Illegal dumping of pulverized asbestos-containing building debris ("Building Debris").

1.1.2 Site Description

The Site consists of a 1.75-acre parcel of land adjacent to the Mohawk River and situated in the western portion of the Town of Frankfort, New York. The 1.75-acre parcel is part of a 192-acre tract of land formerly used for dairy farm operations. Currently, portions of the property that were not filled in with Building Debris are utilized for farming on the east side. One barn-like structure remains on the property and is utilized for the temporary staging of cattle prior to slaughter, and an automotive shop. The closest residence is located across the street, approximately 200 yards to the south, with additional residential properties within one-half mile to the south and east of the 1.75-acre area where disposal took place.

Based upon volume calculations, approximately 15,000 cubic yards of Building Debris is present on-site.

1.1.2.1 Location

The Frankfort Asbestos Site is located at 3720 Southside Road in Frankfort, Herkimer County, NY.

1.1.2.2 Description of Threat

Building Debris containing friable asbestos exceeding 1% was illegally disposed of on the property located at 3720 Southside Road, Frankfort, NY. The asbestos containing material (ACM) presents a potential public health threat. Asbestos fibers can be released into the air during activities that disturb asbestos-containing materials. If disturbed, the asbestos fibers can then be inhaled and trapped in the lungs. If swallowed, they can become embedded into the digestive tract as well. Asbestos is a known human carcinogen and can cause chronic lung disease as well as lung and other cancers. Symptoms and/or cancer may take many years to develop following exposure.

Sampling of the Building Debris also identified elevated levels of lead ranging between 270 to 7,700 milligrams per kilogram (mg/kg). Contact with this lead contaminated material may present a health risk to neighboring residents, particularly young children.

The effects of exposure to lead are the same whether it enters the body through breathing or swallowing. The main target for lead toxicity is the nervous system, both in adults and children. Long-term exposure of adults to lead has resulted in decreased performance in some tests that measure functions of the nervous system. Lead exposure may also cause weakness in fingers, wrists, or ankles. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people, and may also cause anemia.

Lead is a cumulative poison where increasing amounts can build up in the body eventually reaching a point where symptoms and disability occur. Particularly sensitive populations are women of child-bearing age, due to the fetal transfer of lead, and children. Cognitive deficits are associated with fetal and childhood exposure to lead. An increase in blood pressure is the most sensitive adverse health effect from lead exposure in adults. Effects on the kidney, nervous system and heme-forming elements are associated with increasing blood lead concentrations, both in children and adults. Other symptoms include: decreased physical fitness, fatigue, sleep disturbance, aching bones, abdominal pains, and decreased appetite.

The Department of Health and Human Services (DHHS) has determined that lead and lead compounds are reasonably anticipated to be human carcinogens based on limited evidence from studies in humans and sufficient evidence from animal studies, and the EPA has determined that lead is a probable human carcinogen.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

On November 14, 2006, EPA's Criminal Investigation Division (CID), National Enforcement Investigation Center (NEIC), and New York State Department of Environmental Conservation (NYSDEC) representatives conducted an investigation of the Site. The investigation team collected samples at that time of the Building Debris for asbestos analysis. Samples collected were observed to contain broken floor tiles, transite, corrugated cement sheeting, shingles, dirt and wood debris. All samples (sixteen) were analyzed by the NEIC laboratory in Denver CO. Based upon the analytical results, nine of the samples were found to contain asbestos in amounts greater than 1%, and up to 21%.

In August 2007, Weston Solutions Inc., Removal Support Team 2 (RST 2) conducted a Removal Assessment at the Site to further expand on the investigation conducted by EPA's CID, NEIC and NYSDEC in November 2006. RST 2 was tasked with determining the concentrations of asbestos, lead and target compound list (TCL) semivolatile organic compounds (SVOCs) possibly present within the Building Debris, surface soil surrounding the debris piles, surface soils located both on and off-site (string bean field and residential property), and surface soils in the flood plain of the Mohawk River. A total of 49 samples were collected and submitted for analysis. All 49 samples collected were submitted for lead analysis. Of those, 11 samples contained lead concentrations ranging between 270 mg/kg and 7,700 mg/kg. All other samples analyzed for lead were below 120 mg/kg.

From the 49 samples, 42 were submitted for asbestos analysis for polarized light microscopy (PLM) analysis by California Air Resources Board (CARB) 435. No asbestos was detected in any of the 42 samples. A total of 11 samples were also selected for asbestos analysis via transmission electron microscopy (TEM) analysis. All 11 samples were reported to contain below 0.1% asbestos.

Numerous TCL SVOCs were detected in the Building Debris pile samples collected from the Site as part of the Removal Assessment. The TCL SVOCs that exceeded NYSDEC Technical Administrative Guidance Memorandum (TAGM) 4046 concentrations included dimethylphthalate [up to 3,900 micrograms per kilogram (ug/kg)], benzo(k) fluoranthene (up to 6,900 ug/kg), benzo(a)anthracene (up to 7,600 ug/kg), benzo(a)pyrene (up to 7,600 ug/kg), and dibenzo(a,h)anthracene (up to 1,400 ug/kg). The latter three compounds were exceeded in all 11 debris samples. It should be noted that not every TCL SVOC that was detected had a corresponding TAGM 4046 level.

Numerous TCL SVOCs were detected in the soil samples that were collected around the Building Debris piles. TCL SVOCs that exceeded the TAGM 4046 concentrations included benzo(a)anthracene (up to 540 ug/kg), benzo(a) pyrene (up to 570 ug/kg), and dibenzo(a)anthracene (up to 190 ug/kg). Benzo(a)pyrene was exceeded in every soil sample. It should be noted that not every TCL SVOC that was detected had a corresponding TAGM 4046 level.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

Based upon the environmental evaluations conducted at the property, the overall approach to addressing the contamination identified is the complete removal of the Building Debris.

2.1.2 Response Actions to Date

- 11/13/13-11/21/13 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #1.

- 11/24/13-01/10/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #2
- 01/11/14-02/14/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #3
- 02/17/14-02/21/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #4
- 02/24/14-03/07/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #5
- 03/10/14-03/14/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #6
- 03/17/14-03/21/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #7
- 03/24/14-04/11/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #8
- 04/14/14-04/18/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #9
- 04/21/14-04/25/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #10
- 04/28/14-05/02/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #11
- 05/05/14-05/09/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #12
- 05/12/14-05/16/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #13
- 05/19/14-05/23/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #14
- 05/28/14-05/30/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #15
- 06/02/14-06/13/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #16
- 06/16/14-06/20/14 RV2 response actions completed during this reporting period can be found in Frankfort Asbestos RV2, POLREP #17
- Current Reporting Period (06/23/14-06/27/14) During the reporting period, A total of fifty-seven (57) trucks were loaded disposing of approximately 1997.93 tons of building debris. This brings the total of 529 truckloads containing 18,468.19 tons disposed of to date. An additional operator/tech/truck driver was brought in on Monday to spread the stone in the western haul road for topsoil and spread the topsoil. On Tuesday, June 24, four trucks were loaded in the morning, then a hydraulic line behind the cab on the excavator blew out. Trucks that were scheduled to do 2 loads were canceled and one truck that was waiting to be loaded was sent back until the excavator could be repaired. It was repaired that day and ready for loading the next morning. The haul road was sampled and was excavated to the depth of the clean samples. Excavation will continue in this area until all building debris is removed.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

A potentially responsible party (PRP) search was conducted which identified numerous PRPs. Information request letters were sent to the property owner, and identified arrangers and transporters. Based on the responses to the information request letters, additional information requests were issued to 13 other arrangers and/or transporters on April 13, 2011. Based on responses to the information Request Letters and information from CID, EPA sent Notice of Potential Liability and Demand for reimbursement of Costs (Notice and Demand") letters to the PRPs. A Unilateral Administrative Order (UAO) was issued to twelve parties on November 15, 2011. Four parties initially agreed to comply with the UAO. However, following the Department of Justice (DOJ) referral, all parties indicated they were interested in performing the cleanup. One of the PRPs retained an environmental consultant to prepare work plans, and conducted sampling for disposal. The responsible parties indicated the cost of disposal would influence whether they would comply and agree to conduct the cleanup. A deadline of September 1, 2013 was given to the parties to commence the removal action or EPA would fund the removal action. The parties did not meet the deadline and EPA initiated mobilization activities to begin the work.

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity (tons)	Manifest #	Treatment	Disposal
Asbestos Debris	soil/debris	30.68	000001	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	30.71	000002	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.32	000003	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	38.74	000004	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.18	000005	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	28.8	000006	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	30.37	000007	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.36	000008	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.17	000009	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	30.93	000010	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	30.22	000011	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	32.94	000012	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	30.42	000013	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	34.26	000014	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.71	000015	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	42.52	000016	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.93	000017	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.59	000018	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	32.65	000019	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	29.79	000020	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	37.72	000021	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	32.8	000022	Landfill	Ontario County Landfill

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Asbestos Debris	soil/debris	33.67	000482	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	36.05	000483	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	32.35	000484	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	29.05	000485	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	32.64	000486	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.87	000487	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.44	000488	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.74	000489	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	31.32	000490	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.56	000491	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.07	000492	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	32.46	000493	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	34.59	000494	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	36.24	000495	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	34.59	000496	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	37.48	000497	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	36.18	000498	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	37.47	000499	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.22	000500	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.26	000501	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	36.42	000502	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.02	000503	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	32.97	000504	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	34.66	000505	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.28	000506	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	31.96	000507	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	38.91	000508	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.34	000509	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	38.19	000510	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	44.51	000511	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	39.41	000512	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	32.98	000513	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35	000514	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	38.28	000515	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.98	000516	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.39	000517	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	37.01	000518	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.66	000519	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	38.81	000520	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	34.07	000521	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	37.44	000522	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	37.9	000523	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	36.94	000524	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	40.75	000525	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	33.96	000526	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	41.25	000527	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	24.14	000528	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	35.39	000529	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	31.48	000530	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	34.42	000531	Landfill	Ontario County Landfill
Asbestos Debris	soil/debris	37.22	000532	Landfill	Ontario County Landfill
Total shipped as of		18468.19			
06/27/14					

2.2 Planning Section

2.2.1 Anticipated Activities

Site activities are load out and disposal of the remaining building debris and restoration.

2.1.1.1 Planned Response Activities

The planned response activities include the excavation, transportation and disposal of building debris and restoration.

2.2.1.2 Next Steps

EPA will continue the excavation and offsite disposal of building debris, collection of post excavation soil samples to verify that the cleanup criteria is met and initiate restoration activities.

2.2.2 Issues

The excavator blew a hydraulic line during loading in the morning of June 24 after loading the forth truck. The rental company was contacted for repair and it was repaired and ready for load out on June 25. Due to the uncertainty of when the excavator would be repaired, the one truck waiting to be loaded was sent back and the four that were going to make a second load were canceled.

During the excavation of the building debris, the areas containing construction and demolition material "C&D" from historic disposal practices was encountered in the south and east perimeter locations of the disposal area. The C & D material is visually different

than the building debris that is being removed and disposed of, which is the focus of the removal action. The C & D material consists of cement slabs, reinforcement bar, asphalt pavement, brick, rock, and household trash i.e. toys, glass, lumber, vinyl siding, window blinds etc. The excavation of building debris continued to the interface of the C & D material. Post excavation sampling results collected of the C & D material did not identify asbestos, however lead was identified at slightly elevated concentrations. Excavation activities into the C & D material was not continued because it is not the objective of the removal action. The NYSDEC project manager, was informed of the site conditions and EPA's decisions.

RAB management discussed the applicability of Activity Based Sampling "ABS" methods at the site for final clearance documentation with EPA's risk assessor. A decision was made by both parties that ABS would not be necessary since the entire area where excavation activities were conducted will be covered with a lens of top soil/crushed stone, thereby eliminating the potential for a release of possible residual fibers into the environment. This decision was further supported by the analytical results of perimeter and personal air sampling data which were well below established exposure criteria.

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

2.4.1 Narrative

As of June 29, 2014, response-related ERRS costs were approximately \$1,588,984.46.

* An Action Memorandum was signed on September 29, 2011 approving a ceiling increase, 12-month exemption, \$2 million exemption and change in scope. The Action Memorandum is for \$5,850,000 of which \$4,830,000 is from the Regional removal advice of allowance for mitigation contracting. This makes the total project ceiling \$5,994,000 of which \$4,945,000 is for mitigation contracting. A total of \$1,361,548.75 was obligated to the ERRS contractor for this Site. On 6/2/14, ER acknowledged an additional \$500,000 added to the ceiling, making the obligated contracting ceiling \$1,861,548.75.

The following table represents the overall project costs. Costs are listed by specific actions taken or being taken at the Site and the total ceiling level for the Site. The approved cost for the RV1 removal action are associated with the 2007 removal action that dealt with the leveling and covering of the contaminated debris with a liner and installation of a 6' chain link fence. The approved costs for the RV2 removal action are associated with the excavation and off- site disposal of asbestos contaminated debris from the Site.

	Approved Ceiling (RV1)	Approved Ceiling (RV2)	Total Project Ceiling	Obligated Funds to Date	Ceiling Balance	% Ceiling Remaining
Total Cleanup Contractor Cost	\$115,000	\$4,830,000	\$4,945,000	\$1,976,549	\$2,968,451	70.1%
Removal Support Team, Extramural Costs	\$5,000	\$45,000**	\$50,000	\$50,000	\$0	0.0%
Extramural Cost Contingency	\$24,000	\$975,000	\$999,000	\$100,000**	\$899,000	95.0%
Totals	\$144,000	\$5,850,000	\$5,994,000	\$2,126,549	\$3,867,451	73.7%

** \$100,000 was obligated to RST from Contingency funds.

The following "Estimated Costs" table represents costs for the on-going removal action (RV2) to address the excavation and off- site disposal of asbestos contaminated debris from the Site.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$1,861,548.75	\$1,588,984.46	\$272,564.29	14.64%
TAT/START	\$150,000.00	\$133,122.49	\$16,877.51	11.25%
Intramural Costs				
USEPA - Direct	\$131,000.00	\$117,915.00	\$13,085.00	9.99%
Total Site Costs				
	\$2,142,548.75	\$1,840,021.95	\$302,526.80	14.12%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

2.5.2 Liaison Officer

2.5.3 Information Officer

Larisa Romanowski, EPA PAD

3. Participating Entities

3.1 Unified Command

3.2 Cooperating Agencies

Lou Carrock, NYSDOL

Greg Rys, NYSDOH

Robert Senior, NYSDEC

4. Personnel On Site

06/23-27/14

I Lopez, EPA

J. Schultz, RST

I. Benitez, ER

R. Sanchez, ER

2 equipment operators

3 asbestos laborers

5. Definition of Terms

No Information available at this time.

6. Additional sources of information

6.1 Internet location of additional information/report

<http://epaossc.org/frankfortasbestosRV2>

For information regarding Frankfort Asbestos Removal Action 1 (RV1), go to

<http://epaossc.org/frankfortasbestos>

6.2 Reporting Schedule

This Pollution Report will be prepared on a weekly basis.

7. Situational Reference Materials

None at this time.

POLREP #18 Last Updated 7/14/2014