

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Beta Chem Laboratory - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VII

Subject: POLREP #17
Progress
Beta Chem Laboratory
B783
Lenexa, KS
Latitude: 38.9473349 Longitude: -94.7535919

To:
From: Doug Ferguson, OSC
Date: 10/17/2014
Reporting Period: 10/14-17/2014

1. Introduction

1.1 Background

Site Number:	B783	Contract Number:	EP-S7-13-05
D.O. Number:	0029	Action Memo Date:	4/17/2014
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	5/5/2014	Start Date:	5/5/2014
Demob Date:		Completion Date:	
CERCLIS ID:	KSN000705028	RCRIS ID:	
ERNS No.:		State Notification:	State Referred the Site
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time-Critical Removal Action of hazardous substances, including assessment for radiation contamination.

1.1.2 Site Description

Beta Chem Laboratory is a defunct radio-pharmaceutical synthesis lab.

1.1.2.1 Location

The Site is located at 14410 West 100th Street, Lenexa, Johnson County, Kansas. The Site is located in an industrial park. The Site is within a portion of a building in the Noon Industrial Park.

1.1.2.2 Description of Threat

See POLREP number 1.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP number 1.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

A total of 1,134 chemical containers have been inventoried at the Site, most of which have intact labels believed to accurately reflect their contents. Of these 1,134 containers, 276 had hand written, indecipherable or missing labels. The contents of these containers were field screened and assigned hazard groups based on their properties. Virtually all of the surfaces in the lab, including the chemical containers, have elevated counts of radiation as measured with the Ludlum 2241 Meter equipped with a 44-9 "pancake" probe. Additionally, several radiation source materials have been identified and segregated at the Site. Liquid scintillation testing of the contents of containers confirmed a number of the chemicals have radioactive contamination mixed in with them.

Air monitoring results have not detected significant concentrations of volatile organic compounds as

measured with a photoionization detector. Additionally, the oxygen concentrations were found to remain constant at 20.9% and the percent of the lower explosive limit was zero. There were not any significant detections of airborne radiation contamination in samples collected onto air filters counted by the Ludlum Model 3030 Drawer Alpha-Beta Counter.

2.1.2 Response Actions to Date

Actions conducted during the period of October 14-October 17, 2014:

- 23 chemical containers were overpacked to meet DOT shipping requirements
- 9 overpack containers of hazardous waste were shipped off site to Bionomics, Inc. in Oak Ridge, Tennessee.

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

PRPs have been identified for the Site, including the operator of the facility and the owners of the building.

2.1.4 Progress Metrics

The waste streams for the Site are listed below. Ongoing research by site personnel and disposal companies will determine the final waste streams.

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
waste flammable liquids, organic	liquid	30 gallons	011814214		
waste nitric acid	liquid	20 pounds	011814246		
waste, corrosive, acid, inorganic	liquid	2 gallons	011814187		
waste, corrosive, base, inorganic	liquid	2 gallons	011814187		
waste, corrosive, base, inorganic	solid	2 gallons	011814187		
waste, corrosive, acid, organic	liquid	2 gallons	011814187		
waste amines, liquid, corrosive, flammable, n.o.s.	liquid	15 pounds	011814246		
waste corrosive solids, toxic, n.o.s.	solid	40 pounds	011814246		
waste flammable solids, toxic, organic, n.o.s.	solid	20 pounds	011814255		
organometallic substance, liquid, water reactive, flammable	solid	15 pounds	011814255		
waste potassium cyanide, solid, waste sodium cyanide, solid	solid	5 pounds	011814253		
waste hydrofluoric acid	liquid	5 pounds	011814253		
waste flammable liquids, corrosive, n.o.s.	liquids	50 pounds	011814253		
waste, toxic, liquid	liquid	5 gallons	011814214		
waste acetic anhydride	liquid	5 pounds	011814253		
waste nitric acid	liquid	20 pounds	011814246		
waste amines, liquid, corrosive, flammable, n.o.s.	liquid	15 pounds	011814246		
waste corrosive solids, toxic, n.o.s.	solid	40 pounds	011814246		
waste flammable solids, toxic, organic, n.o.s.	solid	20 pounds	011814255		
organometallic substance, liquid, water reactive, flammable	liquid	15 pounds	011814255		
radioactive material, excepted package-limited quantity of material	solid	0.04 cubic meters	92514ES		

radioactive material, excepted package-limited quantity of material	solid	0.02 cubic meters	92514ES/		
waste corrosive liquids, toxic, n.o.s.	liquid	20 pounds	011814269/ 101414DSSI		
waste ethylene	gas	1 pound	011814266		
waste methyl chloride	gas	1 pound	011814266		
waste dimethyl amine, anhydrous	gas	1 pound	011814266		
waste hexafluoropropylene	gas	1 pound	011814266		
waste chlorine	gas	2 pounds	011814268		
waste methyl chloride	gas	5 pounds	011814268		
waste organometallic substance, liquid, pyrophoric, water reactive	liquid	5 pounds	011814265		
waste methyl phosphonic dichloride	liquid	5 pounds	011814265		
waste ammonia, anhydrous	gas	4 pounds	011814265		
waste hydrogen sulfide	gas	1 pound	011814265		
waste corrosive liquid, acidic, organic, n.o.s.	liquid	10 pounds	011816263/ 101414PF		
waste flammable liquids, n.o.s.	liquid	5 pounds	011816263/ 101414PF		
waste mercury compounds, solid, n.o.s.	solid	5 pounds	011816263/ 101414PF		
waste mercury	liquid	5 pounds	011816263		

2.2 Planning Section

2.2.1 Anticipated Activities

Demobilize equipment from the site.

2.2.1.1 Planned Response Activities

Finalize radiological assessment of the Site.

2.2.1.2 Next Steps

Secure site.

2.2.2 Issues

N/A

2.3 Logistics Section

N/A

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

Doug Ferguson, EPA
Aaron Roski, ERRS
Danny O'Connor, START

2.5.2 Liaison Officer

Doug Ferguson

2.5.3 Information Officer

Chris Whitley

2.5.4 Community Involvement Coordinator

Karim Dawani

3. Participating Entities

3.1 Unified Command

N/A

3.2 Cooperating Agencies

Kansas Department of Health and Environment

4. Personnel On Site

Doug Ferguson, EPA OSC
Danny O'Connor, EPA START
Kumud Pyakuryl, EPA START
Kelly Shewell, EPA ERRS

5. Definition of Terms

No information available at this time.

6. Additional sources of information

No information available at this time.

7. Situational Reference Materials

No information available at this time.