

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region VII

**Subject:** POLREP #4  
Beta Chem Laboratory  
B783  
Lenexa, KS  
Latitude: 38.9473349 Longitude: -94.7535919

**To:**  
**From:** Doug Ferguson, OSC  
**Date:** 5/28/2014  
**Reporting Period:**

## 1. Introduction

### 1.1 Background

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

#### 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 1,078 chemical containers have been inventoried at the site most of which have intact labels believed to accurately reflect their content. Of these 1,078 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. Initial radiation screening of the contents of containers indicate 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 air borne 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 May 27-30, 2014:

- Field screening activities continued for the 1,078 chemicals on the inventory list.
- Approximately 200 smaller quantity containers were segregated into hazard groups to further stabilize materials at the site.
- Disposal companies were requested for the disposal of site wastes; no bids were received. One company has requested additional radiation characterization data for the chemicals.
- Additional interior surface radioactive contamination characterization occurred.

**2.1.3 Enforcement Activities, Identity of Potentially 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 anticipated waste streams for the site are listed below. Further 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>
flammable	liquid				
flammable	solid				
corrosive, acid	liquid				
corrosive, base	liquid				
corrosive, base	solid				
oxidizer	solid				
oxidizer	liquid				
organic peroxide	liquid				
water reactive	solid				
water reactive	liquid				
air reactive	solid				
mixed waste	s, l, g				
toxic	s, l, g				
compressed gas	g				
radioactive	s, l				

**2.2 Planning Section**

**2.2.1 Anticipated Activities**

Continue to segregate chemicals by hazard categories. Obtain services to characterize radiation content of chemical containers.

**2.2.1.1 Planned Response Activities**

Segregate waste streams based on disposal criteria, determine acceptable levels of radiation contamination for mixed versus hazardous waste, dispose of hazardous materials off-site. Complete radiological assessment of the site.

**2.2.1.2 Next Steps**

Determine best disposal method based on bids from disposal contractors.

**2.2.2 Issues**

**2.3 Logistics Section**

No information available at this time.

## **2.4 Finance Section**

No information available at this time.

## **2.5 Other Command Staff**

### **2.5.1 Safety Officer**

Doug Ferguson EPA  
Danny O'Connor START  
Bryant Merriman START  
Keith Brown START

### **2.5.2 Liaison Officer**

Doug Ferguson EPA

### **2.5.3 Information Officer**

Chris Whitley EPA

## **3. Participating Entities**

### **3.1 Unified Command**

### **3.2 Cooperating Agencies**

Kansas Department of Health and Environment

## **4. Personnel On Site**

Doug Ferguson EPA OSC  
Tom Mahler EPA OSC  
Chuck Hooper EPA Radiation Program  
Danny O'Connor EPA START

## **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.