

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
May 2010 Tennessee Floods – Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV

Subject:
POLREP #10
May 2010 Tennessee Floods
Nashville, TN

From: Steve Spurlin, On-Scene Coordinator
Date: 5/13/2010
Reporting Period: 0700 May 13, 2010 through 0700 May 14, 2010

1. Introduction

1.1 Background

Response Authority: Stafford Act	Response Type: Emergency
Response Lead: FEMA	Incident Category: Removal Assessment
NPL Status: Non NPL	Start Date: 5/3/2010
Mobilization Date: 5/3/2010	Start Notification: 5/2/2010

1.1.1 Incident Category

This is a response to severe flooding in portions of Western and Central Tennessee, which occurred due to heavy rains May 2 through May 3, 2010, and has been declared a National Disaster Area. To date, 42 counties have been declared.

1.1.2 Site Description

EPA has responded to extensive flooding in Central and Western Tennessee caused by heavy rain May 2 and May 3, 2010. Tennessee Emergency Management Agency (TEMA) activated their Emergency Operations Center (EOC) at the National Guard Armory in Nashville, TN. EPA Emergency Response and Removal Branch (ERRB) mobilized under a request from the Tennessee Department of Environment and Conservation (TDEC) under ESF-10 to conduct Oil and Hazardous Substance Assessment and Recovery in the designated counties of Tennessee.

1.1.2.1 Location

Currently EPA has set up an Incident Command Post (ICP) in Nashville at the TEMA EOC with Operations being conducted in Central (Nashville and surrounding counties) and Western (Memphis, Jackson and surrounding counties) Tennessee.

1.1.2.2 Description of Threat

On May 2 through May 3, 2010, Central and Western Tennessee received approximately thirteen inches of rainfall, surpassing both six and twenty four hour record rainfall amounts. The excessive rainfall led to extensive flooding of river systems in Central and Western Tennessee.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

EPA is coordinating with TEMA, FEMA, and TDEC to assess impacted areas for oil and hazardous material releases. Currently, EPA Operations assessed previously unvisited areas along Cumberland River and determined that additional assessment is required. EPA Operations have also initiated recovery efforts. Hazardous materials discovered in impacted areas will be disposed of at a designated disposal facility. Operations include a River Recovery Team, a Land Recovery Team and a River Assessment Team, all working under direction from the Nashville ICP.

2.1.2 Response Actions to Date

- Additional ERRS crew, CMC, Inc., was requested to assist with river recovery operations.
- The Planning Section continued collecting information for and contacting county convenience facilities to coordinate Household Hazardous Waste (HHW) operations.
- The ICP coordinated HHW recovery with Williamson, Cheatham, Rutherford, and Montgomery-Stewart (bi-county solid waste) Counties.
- The Planning Section also left a message for the Interim Director of Schools in Cheatham County to discuss if a need exists for assessment of schools in the county, particularly high schools that may have chemistry laboratories. The Planning Section will continue attempting to reach the Director.

Land Recovery Operations

Nestor Road (Browns Creek – Davidson County)

- The Team conducted oversight of ERRS clean up activities to address pockets of oil in Browns Creek.

- WRS ERRS procured Marion Environmental, Inc. (MEI), who mobilized a vacuum truck to collect oil from the creek. The recovered oil was transferred to a tanker truck for shipment to an approved disposal facility.
- A total of two truckloads (estimated 11,000 gallons) of oil/water were shipped off site to the Aqua Treat, Inc. facility located in Chattanooga, Tennessee for treatment and disposal.
- EPA will continue operations in this area.

January Environmental (91 Van Buren St, Nashville, TN – Davidson County)

- The Team met onsite with facility and company representatives to discuss clean up measures and expectations.
- January Environmental personnel continued clean up activities, including in the area behind (to the south) the facility.
- The Team coordinated with clean up personnel to monitor and ensure adequacy of clean up efforts.
- EPA will follow up this facility.

River Recovery Operations

- The River Recovery Team traveled to Commodore Marina (Davidson County) to meet with ERRS to begin recovery operations along the Cumberland River; however, there were problem with the boat. EPA is in the process of getting another boat.
- The Team traveled to Visco Road (Davidson County) to conduct oversight of clean up activities along the creek.
- The Team located three additional boat ramps to use as access points during river recovery operations.

River Assessment Operations

- The River Assessment Team lead by Operations Section Chief Jeff Crowley observed a small debris field in the Dover, TN area. The team observed debris along the border between Montgomery County and Stuart County and downstream. Based on the team's assessment, it is estimated that at least a full day of boat operations are required to remove this material.

- The Team observed two 1,000 gallon gas tanks and a propane tank all along near the TVA Cumberland City plant.
- At the intersection of Red River and the Cumberland River, the Team observed thirteen drums (one in a tree). The River Assessment Team had to end their assessment at this location due to the river becoming too narrow for the vessel to travel any further. Further assessment will be required by EPA.

EPA Water Division Under ESF-3

Drinking and Waste Water Team

Background:

TDEC Division of Water Supply has identified 54 community water systems affected by the flood. One of those systems remains on a boil water notice and five are operating at a diminished capacity. There are over 235 public water systems in the declared counties.

Initially, TDEC identified approximately 11-12 WWTPs to receive assessment visits by EPA to evaluate the damage incurred by the facilities and to document any long term and/or short term needs the facilities may have. 4 WWTP facilities were added bringing the total request for assessments to 16.

Current Activities:

One Drinking Water Team Expert has begun calling non-community water systems to assess status. One Drinking Water Team Expert conducted assessments of three public waters systems affected by the floods: Portland, Westmoreland, and Metro-K.R. Herrington. Portland experience significant damage but is managing with local resources. Westmoreland has repaired 60' of service line that was lost. The Metro-K.R. Herrington plant is offline due to extensive damage. FEMA is working to expedite delivery of needed equipment. The water system is hoping to get back online by the end of the month.

Two Wastewater Team Experts conducted assessments of three WWTP facilities affected by the floods: Springfield STP, Centerville STP, and Franklin STP. This will bring the total assessments conducted to 16 as of 05/13/10.

EPA's mobile laboratory arrived at the Nashville TDEC field office Thursday morning. The current situation has improved rapidly and TDEC indicated that they will be able to meet analytical demands. EPA received direction that the both mobile labs can stand down.

- EPA has a list of community distribution systems and will work on sampling plans tomorrow.
- Some of the facilities are offline due to electricity being out. These can't be tested until power is restored. There are 187 wastewater facilities in the effected area with varying levels of damage.

2.2 Planning Section

2.2.1. Anticipated Activities

ERRS will continue recovery operations in Cheatham County and along Nestor Road.

Drinking and Waste Water Team

Anticipated Activities:

The Drinking Water Team will continue to assist TDEC in assessing impact to non-community public water systems in the declared counties. Assessment of the Centerville distribution system will begin on Friday. Centerville is the only system that remains on a boil water notice.

The Wastewater Team will evaluate the need for any further assistance to TDEC regarding wastewater related issues. No further assessment requests have been made by TDEC. The Wastewater Team will finalize the last two damage assessment reports (Centerville STP and Franklin STP) and submit them to TDEC and USACE. If no further assistance is necessary then the Wastewater Team will prepare for possible demobilization of 1 or more people as early as 05/14/10. The Wastewater Team will also be available to assist the Drinking Water Team in their efforts to complete their mission assignment.

2.2.1.1. Planned Response Activities

- The Planning Team will continue to contact county convenience centers to coordinate recovery operations.
- EPA anticipates personnel from CMC to arrive tonight to assist with river recovery operations. They will bring three boats, three boat operators and six laborers. The crew will meet at the Commodore Yacht Club to commence operation activities in the morning.
- The River Operations Team will continue to conduct recovery activities along the Cumberland River in Davidson and Cheatham Counties.
- The Land Operations Team will continue to conduct recovery activities at Nestor Road in Davidson County.

- All information recorded during recovery operations will be reported to the Data Management Team.

2.2.2 Issues

2.3 Logistics

2.4 Finance Section

2.4.1 Narrative

FEMA issued Mission Assignment No. 1909DR-TN-EPA-01 (FOS) on May 6, 2010 in the amount of \$100,000 for assessment activities.

FEMA issued Mission Assignment No. MA1909DR-TN-EPA-02 (DFA) on May 6, 2010, in the amount of \$575,000 for continued assessments and removal in support of ESF-10.

FEMA issued a Mission Assignment No. 1909DR-TN-COE-LRD-04 to EPA under ESF-3 in the amount of \$360,000 for support and technical assistance. EPA accepted this mission assignment on May 8, 2010.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
START - OTIE	\$40,000.00	\$33,435.88	\$6,564.12	16.41%
START - TTMI	\$39,000.00	\$21,674.52	\$18,325.39	46.99%
ERRS - WRS	\$200,000.00	\$13,896.00	\$186,104.00	93.05%
ERRS - CMC	\$100,000.00	\$5,00.000	\$95,000.00	95.00%
Intramural Costs				
USEPA – Direct	\$171,000.00	\$22,800.00	\$148,200.00	86.67%
Total Site Costs				
	\$550,000.00	\$96,806.40	\$453,193.6	82.39%

* 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 Safety Officer**
- 2.6 Liaison Officer**
- 2.7 Information Officer**

3. Participating Entities

3.1 Unified Command

TEMA is acting as the lead agency on this response and EPA is assisting TDEC in response actions. Currently the IC for EPA is OSC Spurlin.

3.2 Cooperating and Assisting Agencies

EPA continues to work closely with TDEC and supporting Agencies.

4. Personnel On Site

EPA - 12

START -5

ERRS - 17

River Recovery Operations

1 EPA, 1 START, 10 ERRS

Land Recovery Operations

1 EPA, 1 START, 7 ERRS

River Assessment Operations

1 EPA, 1 START

ICP

2 EPA, 2 START

Water Division Ops Under ESF-3

3 Drinking Water personnel

4 Waste Water personnel

5. Definition of Terms

6. Additional Sources of Information

6.1 Internet location of additional information/reports

EPA will post other information published on this incident under the documents tab of the website www.epaossc.org/2010TNFloods.

6.2 Reporting Schedule

EPA plans to publish a POLREP/SITREP for the incident on a daily basis. Starting with Polrep #9, Polreps can be found in the Documents section of the above listed website.

7. Situational Reference Materials