

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
E16315 Plantation Pipeline Tuckahoe Investigation - Removal Polrep
Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region III

Subject: POLREP #1
E16315 Plantation Pipeline Tuckahoe Investigation

Goochland County, VA
Latitude: 37.5866830 Longitude: -77.6197490

To:
From: Christine Wagner, OSC
Date: 7/11/2016
Reporting Period: 7/06/2016-70/8/2016

1. Introduction

1.1 Background

Site Number:	Contract Number:
D.O. Number:	Action Memo Date:
Response Authority: OPA	Response Type: Emergency
Response Lead: PRP	Incident Category: Removal Action
NPL Status: Non NPL	Operable Unit:
Mobilization Date: 7/7/2016	Start Date: 7/7/2016
Demob Date:	Completion Date:
CERCLIS ID:	RCRIS ID:
ERNS No.:	State Notification:
FPN#: E16315	Reimbursable Account #:

1.1.1 Incident Category - Potential Oil Spill

1.1.2 Site Description

Investigation from leaking pipeline

1.1.2.1 Location

37.586683

-77.619744

On Plantation Pipeline Right of Way on Goochland side of Tuckahoe Creek bridge at Goochland/Henrico County Line

1.1.2.2 Description of Threat

Potential threat of gasoline spill to Tuckahoe Creek

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Onsite assessment confirmed a potential gasoline leak from an underground 12-inch pipeline

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

On 7/6/16, workers on the Plantation Pipeline right-of-way as described previously noted the odor of gasoline in the area. They dug some small test borings and confirmed the presence of gasoline vapors. An adsorbent pad placed in one of the boreholes yielded a small amount of product.

On 7/6/16, Plantation Pipeline Company, along with emergency officials arrived on scene to investigate the incident.

The location of the release is approximately 200 feet from Tuckahoe Creek, which flows into the James River. No sheen was observed on Tuckahoe Creek but downstream water intakes were notified by VDH for

situational awareness purposes.

2.1.2 Response Actions to Date

7/6/16

Goochland County and Henrico County emergency officials responded to the incident. The location of the incident is in Goochland County, but immediately adjacent to Henrico County.

Plantation Pipeline Company is operated by Kinder-Morgan. Planation Pipeline contacted HEPACO, their OSRO, who responded to the incident. The contractor for pipeline excavation, ITS, also responded. VDEQ and EPA also arrived on scene on the evening of 7/6/16.

Unified Command was established and the decision was made to begin excavation on the morning of 7/7/16. HEPACO remained on Site throughout the night to monitor conditions and also to prepare an access path from River Road to the incident location.

7/7/16

On 7/7/16, ITS began excavation of the pipeline in an area where KM had knowledge of a sleeve previously installed. This area was approximately 15 yards from the location of the odor and downgradient toward the Tuckahoe Creek. The sleeve was located. No contaminated soil was discovered in the excavation materials. No leak was discovered in this area.

Crews then moved closer to the area where the odors were detected. Contaminated soil was found and levels of vapors in the pit reached 10% of the Lower Explosive Limit for flammable vapors. At this point, the workers were evacuated from the immediate area (but not the Site) and ventilation fans were activated to make the work area safer. This work continued through most of the day.

AECOM, an environmental consulting firm, arrived on Site to perform air monitoring both in the work area and along the perimeter to monitor air in the neighborhood.

While this work was being performed, a Unified Command was set up near the Site. HEPACO mobilized in additional off road vehicles and equipment. Safety zones were established and a personnel decontamination area was set up. Contractors arranged for 24 hour operations.

KM was contacted and asked to prepare a press release. A press conference was held at 5:30 pm. Local news media, including three television stations and the Richmond Times-Dispatch newspaper, were present.

During the news conference, the KM Incident Commander received word that the leak had been located. The State Corporation Commission, in charge of investigation of utilities, investigated and documented the damage to the line. The damage was identified as an approximate 1-inch "weep" in the metal. No catastrophic damage to the pipe was discovered.

Upon recommendation of the SCC, a bolt clamp was placed over the leak. The SCC granted permission to KM to startup the pipeline at a reduced pressure. Over the course of the night of 7/7-7/8, the line pressure was slowly increased to 500 psi.

7/8/16

Following a morning briefing the Incident Commander of Goochland County determined the emergency phase of the incident over and dismantled Unified Command. No incident or leaks were observed once the pipeline was put into operation at a reduced pressure. Emergency officials departed the scene.

EPA met with VDEQ. Remediation will be overseen by VDEQ Regional Office

Additional KM personnel arrived on scene, along with their contractor AECOM. AECOM will begin preparing the plans for remediation.

The Virginia EOC closed this incident.

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

EPA issued a Notice of Federal Interest under the Clean Water Act to Kinder Morgan on 7/8/16.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

KM will replace the damaged portion of the pipeline within the next several weeks.

VDEQ PRO will oversee any remediation required.

2.2.1.2 Next Steps

2.2.2 Issues

1. The amount of gasoline which discharged into surrounding soils is unknown. Groundwater was emanating to the surface beneath the pipeline. HEPACO is pumping sheen into totes on Site. The estimate provided to the USCG NPFC was not based on any calculations performed by KM, but simply used as an estimate to begin the claims process.

2. The damaged portion of the pipeline will be replaced within the next several weeks at a time when a less flammable fuel was the last product through the pipe

3.. EPA will maintain situational awareness until the damaged pipeline is replaced.

4. No impact to Tuckahoe Creek to date

2.3 Logistics Section

KM's contractor EIT is handling logistics surrounding excavating and replacing the pipeline

HEPACO is providing onsite logistical support such as equipment, vehicles, totes, etc.

AECOM is providing air monitoring support

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information available at this time.

3. Participating Entities

3.1 Unified Command

Goochland County Fire & Rescue

Henrico County Emergency Management

Virginia Department of Emergency Management

Virginia Department of Environmental Quality

EPA

Kinder Morgan

3.2 Cooperating Agencies

Virginia Department of Health

Virginia State Corporation Commission

Henrico County Public Works

4. Personnel On Site

Kinder Morgan

Plantation Pipeline Company

Goochland County Fire & Rescue

Henrico County Fire & Rescue

Virginia Department of Emergency Management

Virginia Department of Environmental Quality

Virginia State Corporation Commission

US EPA Region III

ITS

HEPACO

AECOM

5. Definition of Terms

KM - Kinder Morgan, operator of Plantation Pipeline

OSRO - Oil Spill Response Organization

SCC - State Corporation Commission

VDEQ - Virginia Department of Environmental Quality

6. Additional sources of information

No information available at this time.

7. Situational Reference Materials

No information available at this time.