**To:** Tierney, MaryAnn[MaryAnn.Tierney@fema.dhs.gov]
**From:** Garvin, Shawn
**Sent:** Sun 1/12/2014 1:01:04 PM
**Subject:** Re: Health and Environment Report - Charleston, WV Chemical Spill

Thanks. It would be helpfuk to have the complete report.

---

**From:** Tierney, MaryAnn <MaryAnn.Tierney@fema.dhs.gov>
**Sent:** Sunday, January 12, 2014 7:57:37 AM
**To:** Garvin, Shawn
**Subject:** Re: Health and Environment Report - Charleston, WV Chemical Spill

This is the part of the report relative to EPA. The rest is about commodity distribution.

MaryAnn Tierney
Regional Administrator
FEMA Region III

215-687-3090 (m)

**From**: Garvin, Shawn [mailto:garvin.shawn@epa.gov]
**Sent**: Sunday, January 12, 2014 07:55 AM
**To**: Tierney, MaryAnn
**Subject**: Re: Health and Environment Report - Charleston, WV Chemical Spill

MaryAnn - Thanks. There is no report attached. Is there more than jusat the message below?

Shawn

---

**From:** Tierney, MaryAnn <MaryAnn.Tierney@fema.dhs.gov>
**Sent:** Sunday, January 12, 2014 6:13:03 AM
**To:** Garvin, Shawn
**Subject:** Fw: Health and Environment Report - Charleston, WV Chemical Spill

This is the report that we discussed.

I also learned there are concerns about ground water and well contamination.

MaryAnn Tierney
Regional Administrator
FEMA Region III

215-687-3090 (m)

**From**: FEMA-R03-RRCC-WATCH
**Sent**: Sunday, January 12, 2014 01:07 AM

**To**: FEMA-NWC
**Subject**: Health and Environment Report - Charleston, WV Chemical Spill

Health and Environment information pertaining to the chemical spill in Charleston, WV, is provided (source: Michael Lapinski, FCO):

· Remediation at the spill site is ongoing with significant progress today. EPA is at the spill site advising the State on containment, remediation and soil monitoring. The remediation work is being accomplished by Clean Harbors Inc.

· Health Operations Center screened all hospitals, nursing homes, long term care facilities and dialysis centers. There are no unmet needs. All hospitals are on emergency water supplies with their tanks being fed from mobile distribution tankers.

· As previously reported, the only federal role in testing and analysis of the water quality was CDC ATSDR approving the protocols for sampling and analysis of MCHM (4-methylcyclohexanemethanol) and providing the documentation on how they arrived at the at the figure of 1.0 parts per million (ppm) as the point where there are no adverse health effects.

· Tonight at a Governor's Press Conference, the State announced the testing strategy, which is to continually test outflow of the water plant and seek to observe 24 consecutive hours of readings below 1.0 ppm. Simultaneously, they are testing key points in the 1700 mile pipeline system to ensure the preponderance of the readings are at or below the 1.0 ppm level. If both those milestones are achieved, they will announce a systematic plan to purge lines and bring elements of the water system back on line. They have issued a contract to a commercial firm to increase the capacity of testing, and support the laboratory analysis. To support the future purge process, the water company (West Virginia American Water) announced they will apply a 1,000 gallon credit for all customers. Additionally, written guidance will be provided to customers on how to purge their household plumbing and plumbing appliances. It should be noted that even at 1.0 ppm the water will

have a detectable odor, as there is a detection agent in the chemical.

r/,

Region Watch Center

DHS / FEMA Region III

(WATCH) 215-931-5757

(WATCH) FEMA-R03-RRCC-WATCH@fema.dhs.gov