Virginia Department of Environmental Quality (DEQ) Pollution Response Program

Oil Sheen on Roaches Run & Potomac River Situation Report #1 4 February 2016 | 1600 Hours

Incident Reference Numbers:

- HMVA Number: HMVA-16777
- NRC # 1139760
- Incident Report Number: Not assigned yet

Location: Roaches Run and Potomac River





Description of Incident

- On 3 February 2016, the DEQ received reports of oil sheen in the Alexandria, Virginia area.
- On 4 February 2016, DEQ staff conducted inspections of the Alexandria shoreline and confirmed the presence of sheening.
- DEQ made observations in Alexandriathat suggests the sheen extends as far south as the Woodrow Wilson Bridge. Sheen was also observed at Gravelly Point Park and in Roaches Run.
- The origin of the sheen is suspected to be from one of the outfalls discharging to Roaches Run.

Dominion Virginia Power – Mineral Oil Release – January 24

• On 24 January 2016, a DVP transformer failed at the intersection of South 18th Street and South Fern Street, Arlington, Virginia. Approximately 13,500 gallons of mineral oil was released to surrounding soils and a series of underground vaults. A small fraction of oil was observed in a manhole immediately adjacent to the

Roaches Run & Gravelly Point Park

transformer. DVP engaged a contractor to conduct response and recovery operations. Approximately 11,000 gallons of free product was recovered, and the balance of the oil was believed to be entrained in the soil and gravel. Several hundred tons of soil and gravel were removed. The bottom of the excavation was sampled for DRO (700 ppm). DVP backfilled the area with clean fill.

- On 4 February 2016, DEQ spoke with John Black, DVP, and he affirmed the above including the last inspection of the stormwater systems and outfalls at Roaches Run was conducted at 1205 on 4 February 2016 and no sheen was observed at any location except for the first manhole adjacent to the transformer station. The sheen at this latter location was minimal.
- At this time, the 24 January 2016 release has <u>not</u> been identified as the source of these sheen reports.

District of Columbia

- At the beginning of February the National Response Center, US Coast Guard, and the District of Columbia's Department of Energy & Environment (DOEE) have received and investigated numerous reports of oil sheen on the Anacostia River and the Potomac River, specifically in the vicinity of Buzzard Point and James Creek Marina's and Joint Base Anacostia Bolling.
- On 3 February, 2016, the DOEE reported the sheen appeared associated with storm water and ice melt run off from several locations along the river. The DOEE planned to deploy containment boom to the area south of Lot 7 at RFK Stadium to capture any potential discharge from buried storm drains as the snow continues to melt.
- The sheen reports at the confluence of the Anacostia and the Potomac Rivers have not been correlated to the sheen reports at Roaches Run and the Potomac River down to Alexandria.

Wildlife Impacts

- DOEE reports that approximately 10 oiled geese were identified on the shore of Roaches Run (Virginia).
- Volunteers are being organized to capture and rehab the wildlife.

Impacts and Threats

• Oil sheen on Roaches Run and Potomac River (between Gravelly Point Park and the Woodrow Wilson Bridge in Alexandria.

Current Activities

- DEQ field investigation on-going to identify source.
- National Park Service has conducted a flyover but no report at this time.
- MWAA deployed hard boom at the mouth of Roaches Run.
- A Command Post has been established in the parking lot at Gravelly Point Park.

Planned Activities

Continue field investigations

Participating Entities

• US Coast Guard – Sector Baltimore, US National Park Service, USFWS, MWAA, DEQ, DGIF, Arlington County, DDOE, VMRC

Personnel on Site

• Mark Miller, DEQ

Prepared by: Elizabeth Lohman, DEQ Preparedness & Response

Approved by: John Giese, DEQ Preparedness and Response Program Manager

Virginia Department of Environmental Quality (DEQ) Pollution Response Program

Oil Sheen on Roaches Run & Potomac River Situation Report #2 4 February 2016 @ 1500 -- 5 February 2016 @ 1000 Hours

Incident Reference Numbers:

- NRC # 1139760
- DEQ Incident Report (IR) #: 2016-N-2266
- VDEM HMVA Number: HMVA-16777
- DGIF EES Log: 36374

Location: Roaches Run and Potomac River



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Roaches Run & Gravelly Point Park

Description of Incident

- On afternoon/early evening of 3 February 2016, the DEQ received reports of oil sheen in the Alexandria, Virginia area.
- On 4 February 2016, DEQ staff conducted inspections of the Alexandria shoreline and confirmed the presence of sheening.
- DEQ made observations in Alexandria that suggests the sheen extends as far south as the Woodrow Wilson Bridge. Sheen was also observed at Gravelly Point Park and in Roaches Run.
- The origin of the sheen is suspected to be from one of the outfalls discharging to Roaches Run.

- DEQ with federal, state, local partners continue field investigations to identify source.
- National Park Service conducted a flyover on 4 February but no report at this time.
- MWAA deployed hard boom at the mouth of Roaches Run.
- On 4 February 2016, the USCG federalized the incident
- On 4 February 2016, emulsified product was identified along the shoreline of Roach's Run. The USCG collected a sample of for analysis. The Coast Guard also requested a sample of transformer oil from a Dominion Virginia Power (DVP) transformer to determine whether the sheen is related to the 24 January mineral oil release from a DVP transformer (see below). Dominion agreed to the sampling.
- A Unified Command is set up at the Department of Energy & Environment (DOEE) office in the District of Columbia. Unified Command is composed of USCG, DDOE, Virginia Department of Environmental Quality, & Maryland Department of the Environment.
- Miller Environmental Group was contracted by the US Coast Guard to conduct required containment and removal actions.
- USCG contractor actively recovering free product in Roaches Run.
- Senator Mark Warner's office and other congressional representatives have requested updates. The USCG are providing these updates.

Public Relations

- The USCG prepared a press release. The press release was issued on the evening of 4 February 2016. The release is posted on the USCG website.
- Several media outlets are staged at Gravelly Point/Roaches Run. DOEE is considering scheduling a press conference.
- WTOP and the Washington Post have released news articles: http://wtop.com/arlington/2016/02/d-c-works-to-identify-clean-up-oily-substance-on-potomac- river/slide/1/ https://www.washingtonpost.com/local/virginia-politics/runoff-or-oil-sheen-spotted-on-potomac-with-no-cause-found-vet/2016/02/04/3623c498-cb82-11e5-88ff-e2d1b4289c2f_story.html

Planned Activities

- USCG is developing an incident response plan.
- Containment and removal actions continue at Roaches Run/Potomac River.
- USCG is planning flyover later today.

Wildlife Impacts

- On 4 February, DOEE reported approximately **18** oiled geese were identified on the shore of Roaches Run (Virginia).
- Volunteers are being organized to capture and rehab the wildlife.
- Tri-State was contracted by the USCG to perform water fowl recovery and cleaning. DGIF is assisting Tri-State. As of 1000 hrs, 8 of 18 geese have been recovered. DGIF reports the recovery is going to take a short break to give remaining wildlife that need to be captured a break.
- Additional oiled geese have been potentially identified in Haines Point area (DC).

Dominion Virginia Power – Mineral Oil Release – January 24

- On 24 January 2016, a DVP transformer failed at the intersection of South 18th Street and South Fern Street, Arlington, Virginia. Approximately 13,500 gallons of mineral oil was released to surrounding soils and a series of underground vaults. A small fraction of oil was observed in a manhole immediately adjacent to the transformer. DVP engaged a contractor to conduct response and recovery operations. Approximately 11,000 gallons of free product was recovered, and the balance of the oil was believed to be entrained in the soil and gravel. Several hundred tons of soil and gravel were removed. The bottom of the excavation was sampled for DRO (700 ppm). DVP backfilled the area with clean fill.
- On 4 February 2016, DEQ spoke with John Black, DVP, and he affirmed the above including the last inspection of the stormwater systems and outfalls at Roaches Run was conducted at 1205 on 4 February 2016 and no sheen was observed at any location except for the first manhole adjacent to the transformer station. The sheen at this latter location was minimal.
- At this time, the 24 January 2016 release has <u>not</u> been identified as the source of these sheen reports.

District of Columbia

- At the beginning of February the National Response Center, US Coast Guard, and the District of Columbia's Department of Energy & Environment (DOEE) have received and investigated numerous reports of oil sheen on the Anacostia River and the Potomac River, specifically in the vicinity of Buzzard Point and James Creek marinas and Joint Base Anacostia Bolling.
- On 3 February 2016, the DOEE reported the sheen appeared associated with storm water and ice melt run off from several locations along the river. The DOEE planned to deploy containment boom to the area south of Lot 7 at RFK Stadium to capture any potential discharge from buried storm drains as the snow continues to melt.
- The sheen reports at the confluence of the Anacostia and the Potomac Rivers have not been correlated to the sheen reports at Roaches Run and the Potomac River down to Alexandria.

Participating Entities

• US Coast Guard – Sector Baltimore, US National Park Service, USFWS, MWAA, DEQ, DGIF, Arlington County, DDOE, VMRC

DEQ Personnel on Site

- Mark Miller, DEQ (At Incident Command-DDOE)
- Joe Glassman, DEQ (On-scene-Roaches Run)

Prepared by:	Mark Miller, DEQ Preparedness & Response
Approved by:	John Giese, DEQ Preparedness and Response Program Manager

Virginia Department of Environmental Quality (DEQ) Pollution Response Program

Oil Sheen on Roaches Run & Potomac River Situation Report #3 5 February 2016 @ 1000 -- 5 February 2016 @ 1600 Hours

Incident Reference Numbers:

- NRC # 1139760
- DEQ Incident Report (IR) #: 2016-N-2266
- VDEM HMVA Number: HMVA-16777
- DGIF EES Log: 36374

Location: Roaches Run and Potomac River



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Description of Incident

- On afternoon/early evening of 3 February 2016, the DEQ received reports of oil sheen in the Alexandria, Virginia area.
- On 4 February 2016, DEQ staff conducted inspections of the Alexandria shoreline and confirmed the presence of sheening.
- DEQ made observations in Alexandria that suggests the sheen extends as far south as the Woodrow Wilson Bridge. Sheen was also observed at Gravelly Point Park and in Roaches Run.
- The origin of the sheen is suspected to be from one of the outfalls discharging to Roaches Run.

Roaches Run & Gravelly Point Park

Current Activities

- DEQ with federal, state, local partners continue field investigations to identify source.
- National Park Service conducted a flyover on 4 February but no report at this time.
- MWAA deployed hard boom at the mouth of Roaches Run.
- On 4 February 2016, the USCG federalized the incident
- On 4 February 2016, emulsified product was identified along the shoreline of Roach's Run. The USCG collected a sample of for analysis. The USCG also requested a sample of transformer oil from a Dominion Virginia Power (DVP) transformer to determine whether the sheen is related to the 24 January mineral oil release from a DVP transformer (see below). Dominion agreed to the sampling.
- A Unified Command is set up at the Department of Energy & Environment (DOEE) office in the District of Columbia. Unified Command is composed of USCG, DOEE, Virginia Department of Environmental Quality, & Maryland Department of the Environment.
- Miller Environmental Group was contracted by the USCG to conduct required containment and removal actions.
- USCG contractor actively recovering free product in Roaches Run.
- Senator Mark Warner's office and other congressional representatives have requested updates. The USCG are providing these updates.
- USCG developed an Incident Response Plan.
- Containment and removal of petroleum on Roaches Run is on-going.
- Source of sheen is not identified but source input appears limited now.
- Spread of oil sheen on Roaches Run is controlled.
- The USCG performed a flyover. Observations indicated the heaviest sheening exists in Roaches Run near the CSX tracks. Less sheening was observed along the Alexandria shoreline and downstream of the Woodrow Wilson Bridge compared to Roaches Run and compared to yesterday.
- The USCG met DVP at the site of the transformer release to collect samples of the mineral oil.

Public Relations

- The USCG prepared and issued a press release on the evening of 4 February 2016. The release is posted on the USCG website.
- Several media outlets are staged at Gravelly Point/Roaches Run.
- WTOP and the Washington Post have released news articles: http://wtop.com/arlington/2016/02/d-c-works-to-identify-clean-up-oily-substance-on-potomac-river/slide/1/ http://wtop.com/arlington/2016/02/d-c-works-to-identify-clean-up-oily-substance-on-potomac-river/slide/1/ https://www.washingtonpost.com/local/virginia-politics/runoff-or-oil-sheen-spotted-on-potomac-with-no-cause-found-yet/2016/02/04/3623c498-cb82-11e5-88ff-e2d1b4289c2f story.html
- USCG held a press conference. Primary questions from reporters were whether source had been identified, and specifically whether DVP is the source, and whether the booming strategy at the mouth of Roaches Run is effective. USCG responded that all sheen reports and possible sources were being investigated and that that due to tidal flow and winds, some oil may flow over the initial boom but secondary and tertiary booms have been placed for containment.
- Social Media: The Potomac Riverkeepers Network has been on-site following the progress of the response action. PRKN has published information at: <u>http://www.twitter.com/PotomacRiver</u>
- WJLA published two posts:
 - http://wjla.com/news/local/potomac-river-oil-slick-sends-at-least-18-birds-other-wildlife-intorehabilitation
 - http://wjla.com/news/local/authorities-work-to-clean-up-oily-substance-on-potomac-river-02-05-2016

Planned Activities

- Containment and removal actions to continue at Roaches Run/Potomac River.
- The Incident Command Post will be partially staffed tomorrow.
- Shoreline Cleanup and Assessment Team (SCAT) will survey shorelines for sheen and areas of oiling. Additional response actions will be based upon the SCAT observations.

Wildlife Impacts

- On 4 February, DOEE reported approximately 18 oiled geese were identified on the shore of Roaches Run (Virginia).
- Volunteers are being organized to capture and rehab the wildlife.
- Tri-State was contracted by the USCG to perform water fowl recovery and cleaning. DGIF is assisting Tri-State. As of 1000 hrs, 8 of 18 geese have been recovered. DGIF reports the recovery is going to take a short break to give remaining wildlife that need to be captured a break.
- Additional oiled geese have been potentially identified in Haines Point area (DC).
- Recovery of the 18 affected geese is ongoing.
- Two dead ducks were recovered from the Roaches Run area.

Dominion Virginia Power – Mineral Oil Release – January 24

- On 24 January 2016, a DVP transformer failed at the intersection of South 18th Street and South Fern Street, Arlington, Virginia. Approximately 13,500 gallons of mineral oil was released to surrounding soils and a series of underground vaults. A small fraction of oil was observed in a manhole immediately adjacent to the transformer. DVP engaged a contractor to conduct response and recovery operations. Approximately 11,000 gallons of free product was recovered, and the balance of the oil was believed to be entrained in the soil and gravel. Several hundred tons of soil and gravel were removed. The bottom of the excavation was sampled for DRO (700 ppm). DVP backfilled the area with clean fill. After the initial spill, DVP has monitored the stormwater sewer system along Crystal Drive between 18th Street and 15th Street where, based on Arlington County staff guidance, any oil release would likely show up. No free product, emulsion, or oil sheen has been observed at this point.
- On 4 February 2016, DEQ spoke with John Black, DVP, and he affirmed the above including the last inspection of the stormwater systems and outfalls at Roaches Run was conducted at 1205 on 4 February 2016 and no sheen was observed at any location except for the first manhole adjacent to the transformer station. The sheen at this latter location was minimal.
- At this time, the 24 January 2016 release has <u>not</u> been identified as the source of these sheen reports.

District of Columbia

- At the beginning of February the National Response Center, US Coast Guard, and the District of Columbia's Department of Energy & Environment (DOEE) have received and investigated numerous reports of oil sheen on the Anacostia River and the Potomac River, specifically in the vicinity of Buzzard Point and James Creek marinas and Joint Base Anacostia Bolling.
- On 3 February 2016, the DOEE reported the sheen appeared associated with storm water and ice melt run off from several locations along the river. The DOEE planned to deploy containment boom to the area south of Lot 7 at RFK Stadium to capture any potential discharge from buried storm drains as the snow continues to melt.
- The sheen reports at the confluence of the Anacostia and the Potomac Rivers have not been correlated to the sheen reports at Roaches Run and the Potomac River down to Alexandria.

Participating Entities

• US Coast Guard – Sector Baltimore, US National Park Service, USFWS, MWAA, DEQ, DGIF, Arlington County, DDOE, VMRC

DEQ Personnel on Site

- Mark Miller, DEQ (At Incident Command-DDOE)
- Joe Glassman, DEQ (On-scene-Roaches Run)

Prepared by:Mark Miller / Elizabeth Lohman - DEQ Pollution Response ProgramApproved by:John Giese, DEQ Preparedness and Response Program Manager

Virginia Department of Environmental Quality (DEQ) Pollution Response Program

Oil Sheen on Roaches Run & Potomac River Situation Report #4 5 February 2016 @ 1600 -- 6 February 2016 @ 1500 Hours

Incident Reference Numbers:

- NRC # 1139760
- DEQ Incident Report (IR) #: 2016-N-2266
- VDEM HMVA Number: HMVA-16777
- DGIF EES Log: 36374

Location: Roaches Run and Potomac River





Description of Incident

- On afternoon/early evening of 3 February 2016, the DEQ received reports of oil sheen in the Alexandria, Virginia area.
- On 4 February 2016, DEQ staff conducted inspections of the Alexandria shoreline and confirmed the presence of sheening.
- DEQ made observations in Alexandria that suggests the sheen extends as far south as the Woodrow Wilson Bridge. Sheen was also observed at Gravelly Point Park and in Roaches Run.
- The origin of the sheen is suspected to be from one of the outfalls discharging to Roaches Run.

Current Activities

- DEQ with federal, state, local partners continue field investigations to identify source.
- National Park Service conducted a flyover on 4 February but no report at this time.
- MWAA deployed hard boom at the mouth of Roaches Run.
- On 4 February 2016, the USCG federalized the incident
- On 4 February 2016, emulsified product was identified along the shoreline of Roach's Run. The USCG collected a sample of for analysis. The USCG also requested a sample of transformer oil from a Dominion Virginia Power (DVP) transformer to determine whether the sheen is related to the 24 January mineral oil release from a DVP transformer (see below). Dominion agreed to the sampling.
- A Unified Command is set up at the Department of Energy & Environment (DOEE) office in the District of Columbia. Unified Command is composed of USCG, DOEE, Virginia Department of Environmental Quality, & Maryland Department of the Environment.
- Miller Environmental Group was contracted by the USCG to conduct required containment and removal actions.
- USCG contractor actively recovering free product in Roaches Run.
- Senator Mark Warner's office and other congressional representatives have requested updates. The USCG are providing these updates.
- USCG developed an Incident Response Plan.
- Containment and removal of petroleum on Roaches Run is on-going.
- Source of sheen is not identified but source input appears limited now.
- Spread of oil sheen on Roaches Run is controlled.
- The USCG performed a flyover. Observations indicated the heaviest sheening exists in Roaches Run near the CSX tracks. Less sheening was observed along the Alexandria shoreline and downstream of the Woodrow Wilson Bridge compared to Roaches Run and compared to yesterday.
- The USCG met DVP at the site of the transformer release to collect samples of the mineral oil from the transformer. The USCG also collected a sample of the emulsified oil observed in the first manhole adjacent to the transformer station. Results are expected on Monday (8 February) or Tuesday (9 February).
- On 6 February, USCG field teams attended the outfall and conducted a SCAT assessment of the surrounding area. Sheening is still visible within Roaches Run and in the vicinity of the Gravelly Point boat ramps but not expanding (based on DEQ staff observations from 1400 hours). No product is collecting at the outfall.

Public Relations

- The USCG prepared and issued a press release on the evening of 4 February 2016. The release is posted on the USCG website.
- Several media outlets are staged at Gravelly Point/Roaches Run.
- WTOP and the Washington Post have released news articles: http://wtop.com/arlington/2016/02/d-c-works-to-identify-clean-up-oily-substance-on-potomac-river/slide/1/ http://www.washingtonpost.com/local/virginia-politics/runoff-or-oil-sheen-spotted-on-potomac-with-no-cause-found-vet/2016/02/04/3623c498-cb82-11e5-88ff-e2d1b4289c2f story.html
- USCG held a press conference. Primary questions from reporters were whether source had been identified, and specifically whether DVP is the source, and whether the booming strategy at the mouth of Roaches Run is effective. USCG responded that all sheen reports and possible sources were being investigated and that that due to tidal flow and winds, some oil may flow over the initial boom but secondary and tertiary booms have been placed for containment.
- WJLA published two posts:
 - http://wjla.com/news/local/potomac-river-oil-slick-sends-at-least-18-birds-other-wildlife-into-rehabilitation

- http://wjla.com/news/local/authorities-work-to-clean-up-oily-substance-on-potomac-river-02-05-2016
- Washington Post: https://www.washingtonpost.com/local/oil-sheen-on-potomac-sheaths-geese-authorities-are-trying-to-contain-it/2016/02/05/e3118bbc-cc37-11e5-88ff-e2d1b4289c2f_story.html
- WMAL: <u>http://www.wmal.com/2016/02/05/environmental-impacts-of-potomac-oil-spill-already-being-seen/</u>
- Fox News: http://www.fox5dc.com/news/local-news/84876682-story
- Social Media users have posted information on Twitter that include video of wildlife impacts and attempts to capture wildlife.
 - The Potomac Riverkeepers Network has been on-site following the progress of the response action. PRKN has published information at: <u>http://www.twitter.com/PotomacRiver</u>
 - NBC4: <u>http://www.nbcwashington.com/news/local/Authorities-Work-to-Clean-Up-Oily-Substance-on-Potomac-River-367823161.html</u>
 - Segraves (NBC4): <u>https://twitter.com/SegravesNBC4</u>
 - Water Keepers Chesapeake Twitter: <u>https://twitter.com/WaterkeepersCP</u>
 - Peggy Fox (WUSA9): <u>https://twitter.com/PeggyTV</u>

Planned Activities

- USCG field teams will continue to actively monitor the outfall and respond to reports through the weekend.
- On morning of Monday, 8 February, USCG and DEQ will coordinate with Arlington County to inspect the storm sewer system as part of the source investigation.

Wildlife Impacts

- On 4 February, DOEE reported approximately 18 oiled geese were identified on the shore of Roaches Run (Virginia).
- Volunteers are being organized to capture and rehab the wildlife.
- Tri-State was contracted by the USCG to perform water fowl recovery and cleaning. DGIF is assisting Tri-State. As of 1000 hrs, 8 of 18 geese have been recovered. DGIF reports the recovery is going to take a short break to give remaining wildlife that need to be captured a break.
- Additional oiled geese have been potentially identified in Haines Point area (DC).
- Tri-State Bird Rescue reports the following:
 - 16 waterfowl captured. Of these, 1 goose was euthanized because it was already ill, not believed to be oil related.
 - 3 additional deceased geese recovered. Preliminary indications are that oil may have been a contributing factor.
 - 3 additional geese are known to be impacted, but not captured. Tri-State continues efforts to capture them.
- Tri-State Bird Rescue will remain on contract until FWS is satisfied that additional efforts are not necessary.

Dominion Virginia Power – Mineral Oil Release – January 24

• On 24 January 2016, a DVP transformer failed at the intersection of South 18th Street and South Fern Street, Arlington, Virginia. Approximately 13,500 gallons of mineral oil was released to surrounding soils and a series of underground vaults. A small fraction of oil was observed in a manhole immediately adjacent to the transformer. DVP engaged a contractor to conduct response and recovery operations. Approximately 11,000 gallons of free product was recovered, and the balance of the oil was believed to be entrained in the soil and gravel. Several hundred tons of soil and gravel were removed. The bottom of the excavation was sampled for DRO (700 ppm). DVP backfilled the area with clean fill. After the initial spill, DVP has monitored the stormwater sewer system along Crystal Drive between 18th Street and 15th Street where, based on

Arlington County staff guidance, any oil release would likely show up. No free product, emulsion, or oil sheen has been observed at this point.

- On 4 February 2016, DEQ spoke with John Black, DVP, and he affirmed the above including the last inspection of the stormwater systems and outfalls at Roaches Run was conducted at 1205 on 4 February 2016 and no sheen was observed at any location except for the first manhole adjacent to the transformer station. The sheen at this latter location was minimal.
- At this time, the 24 January 2016 release has <u>not</u> been identified as the source of these sheen reports.

District of Columbia

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- On 3 February 2016, the DOEE reported the sheen appeared associated with storm water and ice melt run off from several locations along the river. The DOEE planned to deploy containment boom to the area south of Lot 7 at RFK Stadium to capture any potential discharge from buried storm drains as the snow continues to melt.
- The sheen reports at the confluence of the Anacostia and the Potomac Rivers have not been correlated to the sheen reports at Roaches Run and the Potomac River down to Alexandria.

Participating Entities

• US Coast Guard – Sector Baltimore, US National Park Service, USFWS, MWAA, DEQ, DGIF, Arlington County, DDOE, VMRC

DEQ Personnel on Site

• Joe Glassman, DEQ (On-scene-Roaches Run)

Prepared by:	Mark Miller / Elizabeth Lohman - DEQ Pollution Response Program
Approved by:	John Giese, DEQ Preparedness and Response Program Manager

Virginia Department of Environmental Quality (DEQ) Pollution Response Program

Oil Sheen on Roaches Run & Potomac River Situation Report #5 6 February 2016 @ 1500 -- 7 February 2016 @ 1600 Hours

Incident Reference Numbers:

- NRC # 1139760
- DEQ Incident Report (IR) #: 2016-N-2266
- VDEM HMVA Number: HMVA-16777
- DGIF EES Log: 36374

Location: Roaches Run Waterfowl Sanctuary and Potomac River





Description of Incident

- On afternoon/early evening of 3 February 2016, the DEQ received reports of oil sheen in the Alexandria, Virginia area.
- On 4 February 2016, DEQ staff conducted inspections of the Alexandria shoreline and confirmed the presence of sheening.
- DEQ made observations in Alexandria that suggests the sheen extends as far south as the Woodrow Wilson Bridge. Sheen was also observed at Gravelly Point Park and in Roaches Run.
- The origin of the sheen is suspected to be from one of the outfalls discharging to Roaches Run.

- DEQ with federal, state, local partners continue field investigations to identify source.
- National Park Service conducted a flyover on 4 February but no report at this time.
- MWAA deployed hard boom at the mouth of Roaches Run.
- On 4 February 2016, the USCG federalized the incident
- On 4 February 2016, emulsified product was identified along the shoreline of Roach's Run. The USCG collected a sample of for analysis. The USCG also requested a sample of transformer oil from a Dominion Virginia Power (DVP) transformer to determine whether the sheen is related to the 24 January mineral oil release from a DVP transformer (see below). Dominion agreed to the sampling.
- A Unified Command was set up at the Department of Energy & Environment (DOEE) office in the District of Columbia. Unified Command is composed of USCG, DOEE, Virginia Department of Environmental Quality, & Maryland Department of the Environment.
- Miller Environmental Group was contracted by the USCG to conduct required containment and removal actions.
- Senator Mark Warner's office and other congressional representatives have requested updates. The USCG is providing these updates.
- USCG developed an Incident Response Plan.
- Containment and removal of petroleum on Roaches Run is on-going.
- Source of sheen is not identified but source input appears limited now.
- Spread of oil sheen from Roaches Run to the Potomac River is controlled through deployment of booms.
- On 5 February, the USCG performed a flyover. Observations indicated the heaviest sheening exists in Roaches Run near the CSX tracks. Less sheening was observed along the Alexandria shoreline and downstream of the Woodrow Wilson Bridge compared to Roaches Run and compared to yesterday.
- The USCG met DVP at the site of the transformer release to collect samples of the mineral oil from the transformer. The USCG also collected a sample of the emulsified oil observed in the first manhole adjacent to the transformer station. Results are expected on Monday (8 February) or Tuesday (9 February).
- On 6 February, USCG field teams attended the outfall and conducted a SCAT assessment of the surrounding area. Sheening is still visible within Roaches Run and in the vicinity of the Gravelly Point boat ramps but not expanding (based on DEQ staff observations from 1400 hours on 6 February). No product is collecting at the outfall.
- On 7 February at approximately 1100, a USCG field team observed possible new sheening into Roaches Run at the 6th Street stormwater outfall. This outfall is inside of the current containment at the mouth of Roaches Run on the Potomac and is limiting spread to the Potomac.
- On the afternoon of 7 February, the USCG, DEQ and Arlington Fire Department inspected a couple of the manholes just upstream of the 6th Street outfall. The outfalls had a small amount of standing water but no oil emulsion or sheen.
- The USCG has engaged a second contractor, HEPACO, to assist with the deployment and maintenance of the booms that are being used to contain the oil sheen.

Planned Activities

- USCG field teams will continue to actively monitor the outfall and respond to reports through the weekend.
- On morning of Monday, 8 February, USCG and DEQ will coordinate with Arlington County to inspect the storm sewer system as part of the source investigation. The USCG in coordination with DEQ and Arlington Co. plans to dye trace the storm sewer system on 8 February. A press release will be issued ahead of the activity.
- The USCG Atlantic Strike Team is currently en route to provide technical assistance to the incident response for 8 February.

Wildlife Impacts

- On 4 February, DOEE reported approximately 18 oiled geese were identified on the shore of Roaches Run (Virginia).
- Volunteers are being organized to capture and rehab the wildlife.
- Tri-State was contracted by the USCG to perform water fowl recovery and cleaning. DGIF is assisting Tri-State. As of 1000 hrs, 8 of 18 geese have been recovered. DGIF reports the recovery is going to take a short break to give remaining wildlife that need to be captured a break.
- Additional oiled geese have been potentially identified in Haines Point area (DC).
- Tri-State Bird Rescue reports the following:
 - **18 waterfowl captured**. Of these, 1 goose was euthanized because it was already ill, not believed to be oil related.
 - Efforts are on-going to capture several more oiled geese in the vicinity of Reagan Airport and Haines Point golf course.
 - Previous report of 3 additional deceased geese was erroneous.
- Tri-State Bird Rescue will remain on contract until FWS is satisfied that additional efforts are not necessary.
- National Park Service reported to USFWS field crew they observed light silver sheen south of the Wilson Bridge near Dyke Marsh, lots of birds in the area but none observed oiled at this time.
- USFWS crew is conducting bird surveillance looking for oil, sheen, oiled birds, and bird concentrations.

Public Relations

The USCG prepared and issued a press release on the evening of 4 February 2016. The release is posted on the USCG website.

USCG held a press conference. Primary questions from reporters were whether source had been identified, and specifically whether DVP is the source, and whether the booming strategy at the mouth of Roaches Run is effective. USCG responded that all sheen reports and possible sources were being investigated and that that due to tidal flow and winds, some oil may flow over the initial boom but secondary and tertiary booms have been placed for containment.

News – 4 February

Washington Post | 4 February

 $\label{eq:https://www.washingtonpost.com/local/virginia-politics/runoff-or-oil-sheen-spotted-on-potomac-with-no-cause-found-yet/2016/02/04/3623c498-cb82-11e5-88ff-e2d1b4289c2f_story.html]$

WJLA7 - TV Broadcast | 02.04.16 PHOTOS: Mysterious 'sheen' on Potomac River baffles investigators, closes Gravelly Point http://wjla.com/news/local/photos-mysterious-sheen-on-potomac-river-baffles-investigators-closes-gravelly-point

WTOP | 4 February http://wtop.com/arlington/2016/02/d-c-works-to-identify-clean-up-oily-substance-on-potomac-river/

WUSA9 - Video | 02.04.16 Questions raised after 'oil sheen' appears on Potomac River <u>http://www.wusa9.com/story/news/local/virginia/2016/02/04/questions-raised-after-oil-sheen-appears-potomac-river/79828052/</u>

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Chesapeake Bay Journal | 5 February <u>http://www.bayjournal.com/article/oil_sheen_on_potomac_near_dc_under_investigation</u> FOX5 | 5 February | 1649 <u>http://www.fox5dc.com/news/local-news/84876682-story</u>

Inside NoVA | 5 February | 1348 http://www.insidenova.com/headlines/mysterious-oily-sheen-on-potomac-river-in-arlington-impactingbirds/article_934988ce-cc36-11e5-99f7-5be573dff02c.html

NBC4 | 02.05.16 Oily Substance Coats Bird Sanctuary, 8 Miles of Potomac River <u>http://www.nbcwashington.com/news/local/Authorities-Work-to-Clean-Up-Oily-Substance-on-Potomac-River-</u> <u>367823161.html?_osource=SocialFlowTwt_DCBrand</u>

NBC4 | 02.05.16 (11AM broadcast) Authorities Work to ID Oily Substance on Potomac http://www.nbcwashington.com/news/local/Potomac-River-Cleanup Washington-DC-367821561.html

NBC4 | 02.05.16 (6PM broadcast) Race to Contain Potomac River Spill, Save Geese <u>http://www.nbcwashington.com/news/local/Work-To-Contain-Potomac-River-Spill -Save-Geese Washington-DC-367875361.html</u>

Redbrick Town | 5 February | 0950 http://redbricktown.com/2016/02/potomac-river-oil-spill-cause-update/

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WJLA | 02.05.16

At least 18 birds, other wildlife being treated after exposure to Potomac River oil slick <u>http://wjla.com/news/local/potomac-river-oil-slick-sends-at-least-18-birds-other-wildlife-into-rehabilitation</u>

WJLA (Associated Press) | 02.05.16 Authorities work to clean up oily substance on Potomac River http://wjla.com/news/local/authorities-work-to-clean-up-oily-substance-on-potomac-river-02-05-2016

WMAL | 5 February http://www.wmal.com/2016/02/05/environmental-impacts-of-potomac-oil-spill-already-being-seen/

WTOP | 5 February | 1559

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SitRep #5

WTOP | 5 February | 2050

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WUSA9 | 02.05.16 Coast Guard: Oily sheen on Potomac is mostly gone <u>http://www.wusa9.com/story/news/local/virginia/2016/02/05/authorities-work-clean-up-oil-sheen-potomac-river/79874252/</u>

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Alexandria News | 6 February

https://www.alexandrianews.org/coast-guard-partner-agencies-respond-to-potomac-river-sheen/

NBC4 | 6 February

http://www.nbcwashington.com/news/local/Oily-Substance-Source-in-Pototmac-Not-Found-Birds-Cleaned-367927511.html

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Washington Post | 6 February | 1935

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WUSA9 | 6 February | 1845

http://www.wusa9.com/story/news/local/virginia/2016/02/05/authorities-work-clean-up-oil-sheen-potomac-river/79874252/

News – 7 February

Alexandria News Coast Guard, Partner Agencies Respond To Potomac River Sheen; Treat Affected Waterfowl <u>http://www.alexandrianews.org/coast-guard-partner-agencies-respond-to-potomac-river-sheen-treat-affected-waterfowl/</u>

Fredricksburg Free Lance Star | 7 February | 2400 http://www.fredericksburg.com/news/va_md_dc/coast-guard-oil-sheens-in-potomac-river-mostlygone/article_9c75ea55-86da-5883-9f31-07f5f795873e.html

WUSA9 | 7 February | 0853 Some birds lost feathers, oil clean-up continues on the Potomac http://www.wusa9.com/story/news/local/virginia/2016/02/06/some-birds-lost-feathers-oil-clean-up-continuespotomac/79940848/

Facebook

Department of Energy & Environment: <u>https://www.facebook.com/DDOE.DC/?fref=ts</u> Friends of Dyke Marsh: <u>https://www.facebook.com/DykeMarsh/</u> Potomac Riverkeepers Network: <u>https://www.facebook.com/PotomacRiverkeeperNetwork/?fref=ts</u>

Twitter

USCG News Releases: <u>https://twitter.com/uscoastguard?lang=en</u> Department of Energy & Environment: <u>https://twitter.com/DOEE_DC</u> Jeff Goldberg (@abc7jeffg): <u>https://twitter.com/abc7jeffg</u> Mark Seagraves (@SeagravesNBC4): <u>https://twitter.com/SegravesNBC4</u> PeggyFox (@PeggyTV): <u>https://twitter.com/PeggyTV</u> Potomac Riverkeeper Network (@PotomacRiver): <u>https://twitter.com/PotomacRiver</u> Water Keepers Chesapeake Twitter: https://twitter.com/WaterkeepersCP

Blogs

Blue Virginia: http://www.bluevirginia.us/2016/02/del-mark-levine-has-some-excellent.html

Dominion Virginia Power – Mineral Oil Release – January 24

- On 24 January 2016, a DVP transformer failed at the intersection of South 18th Street and South Fern Street, Arlington, Virginia. Approximately 13,500 gallons of mineral oil was released to surrounding soils and a series of underground vaults. A small fraction of oil was observed in a manhole immediately adjacent to the transformer. DVP engaged a contractor to conduct response and recovery operations. Approximately 11,000 gallons of free product was recovered, and the balance of the oil was believed to be entrained in the soil and gravel. Several hundred tons of soil and gravel were removed. The bottom of the excavation was sampled for DRO (700 ppm). DVP backfilled the area with clean fill. After the initial spill, DVP has monitored the stormwater sewer system along Crystal Drive between 18th Street and 15th Street and at the Crystal City/VRE stormwater outfall to Roaches Run – both locations are where, based on Arlington County staff guidance, any oil release would likely show up. No free product, emulsion, or oil sheen has been observed at these points.
- On 4 February 2016, DEQ spoke with John Black, DVP, and he affirmed the above including the last inspection of the stormwater systems and outfalls at Roaches Run was conducted at 1205 on 4 February 2016 and no sheen was observed at any location except for the first manhole adjacent to the transformer station. The sheen at this latter location was minimal.
- At this time, the 24 January 2016 release has <u>not</u> been identified as the source of these sheen reports.

District of Columbia

- At the beginning of February the National Response Center, US Coast Guard, and the District of Columbia's Department of Energy & Environment (DOEE) have received and investigated numerous reports of oil sheen on the Anacostia River and the Potomac River, specifically in the vicinity of Buzzard Point and James Creek marinas and Joint Base Anacostia Bolling.
- On 3 February 2016, the DOEE reported the sheen appeared associated with storm water and ice melt run off from several locations along the river. The DOEE planned to deploy containment boom to the area south of Lot 7 at RFK Stadium to capture any potential discharge from buried storm drains as the snow continues to melt.
- The sheen reports at the confluence of the Anacostia and the Potomac Rivers have not been correlated to the sheen reports at Roaches Run and the Potomac River down to Alexandria.

Participating Entities

• US Coast Guard – Sector Baltimore, US National Park Service, USFWS, MWAA, DEQ, MDE, DOEE, DGIF, Arlington County, VMRC

DEQ Personnel on Site

• Randy Chapman – 8 February

Prepared by: Mark Miller / Elizabeth Lohman - DEQ Pollution Response Program

Approved by: John Giese, DEQ Preparedness and Response Program Manager

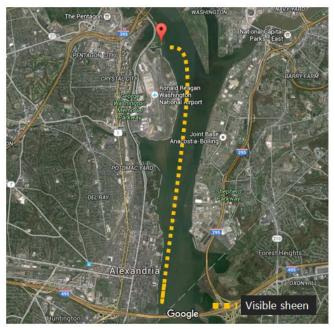
Virginia Department of Environmental Quality (DEQ) Pollution Response Program

Oil Sheen on Roaches Run & Potomac River Situation Report #6 7 February 2016 @ 1600 -- 8 February 2016 @ 1700 Hours

Incident Reference Numbers:

- NRC # 1139760
- DEQ Incident Report (IR) #: 2016-N-2266
- VDEM HMVA Number: HMVA-16777
- DGIF EES Log: 36374

Location: Roaches Run Waterfowl Sanctuary and Potomac River





Description of Incident

- On afternoon/early evening of 3 February 2016, the DEQ received reports of oil sheen in the Alexandria, Virginia area.
- On 4 February 2016, DEQ staff conducted inspections of the Alexandria shoreline and confirmed the presence of sheening.
- DEQ made observations in Alexandria that suggests the sheen extends as far south as the Woodrow Wilson Bridge. Sheen was also observed at Gravelly Point Park and in Roaches Run.
- The origin of the sheen is suspected to be from one of the outfalls discharging to Roaches Run.

Activities

- DEQ with federal, state, local partners continue field investigations to identify source.
- National Park Service conducted a flyover on 4 February but no report at this time.
- MWAA deployed hard boom at the mouth of Roaches Run.

Roaches Run & Gravelly Point Park

- On 4 February 2016, the USCG federalized the incident
- On 4 February 2016, emulsified product was identified along the shoreline of Roach's Run. The USCG collected a sample of for analysis. The USCG also requested a sample of transformer oil from a Dominion Virginia Power (DVP) transformer to determine whether the sheen is related to the 24 January mineral oil release from a DVP transformer (see below). Dominion agreed to the sampling.
- A Unified Command was set up at the Department of Energy & Environment (DOEE) office in the District of Columbia. Unified Command is composed of USCG, DOEE, Virginia Department of Environmental Quality, & Maryland Department of the Environment.
- Miller Environmental Group was contracted by the USCG to conduct required containment and removal actions.
- Senator Mark Warner's office and other congressional representatives have requested updates. The USCG is providing these updates.
- USCG developed an Incident Response Plan.
- Containment and removal of petroleum on Roaches Run is on-going.
- Source of sheen is not identified but source input appears limited now.
- Spread of oil sheen from Roaches Run to the Potomac River is controlled through deployment of booms.
- On 5 February, the USCG performed a flyover. Observations indicated the heaviest sheening exists in Roaches Run near the CSX tracks. Less sheening was observed along the Alexandria shoreline and downstream of the Woodrow Wilson Bridge compared to Roaches Run and compared to yesterday.
- The USCG met DVP at the site of the transformer release to collect samples of the mineral oil from the transformer. The USCG also collected a sample of the emulsified oil observed in the first manhole adjacent to the transformer station. Results are expected on Monday (8 February) or Tuesday (9 February).
- On 6 February, USCG field teams attended the outfall and conducted a SCAT assessment of the surrounding area. Sheening is still visible within Roaches Run and in the vicinity of the Gravelly Point boat ramps but not expanding (based on DEQ staff observations from 1400 hours on 6 February). No product is collecting at the outfall.
- On 7 February at approximately 1100, a USCG field team observed possible new sheening into Roaches Run at the 6th Street stormwater outfall. This outfall is inside of the current containment at the mouth of Roaches Run on the Potomac and is limiting spread to the Potomac.
- On the afternoon of 7 February, the USCG, DEQ and Arlington Fire Department inspected a couple of the manholes just upstream of the 6th Street outfall. The outfalls had a small amount of standing water but no oil emulsion or sheen.
- The USCG has engaged a second contractor, HEPACO, to assist with the deployment and maintenance of the booms that are being used to contain the oil sheen.
- On 8 February, the USCG Atlantic Strike Team arrived to assist the Unified Command with the field investigation.
- On 8 February, the USCG, DEQ and Arlington planned to conduct a dye test on the storm sewer system particularly the portion of the system that discharges at the Crystal City/VRE outfall. However, after an initial evaluation, the USCG and DEQ decided to cancel the dye test because insufficient flowing water was present in the storm sewer system to carry the dye to the outfall. The field team continued its investigation by pulling and inspecting manholes along the line.
- The Unified Command received results on 8 February from the first oil sample recovered from the water at Gravelly Point near Arlington, Virginia. The sample contains intermediate petroleum oil with characteristics most resembling those of moderate to severely weathered fuel oil. Additional samples taken from various locations at Roaches Run Waterfowl Sanctuary will be processed during the next few days.

Planned Activities

• USCG field teams will continue to actively monitor the outfall and respond to reports tomorrow through the forecasted winter storm.

Wildlife Impacts

- On 4 February, DOEE reported approximately 18 oiled geese were identified on the shore of Roaches Run (Virginia).
- Volunteers are being organized to capture and rehab the wildlife.
- Tri-State was contracted by the USCG to perform water fowl recovery and cleaning. DGIF is assisting Tri-State. As of 1000 hrs, 8 of 18 geese have been recovered. DGIF reports the recovery is going to take a short break to give remaining wildlife that need to be captured a break.
- Additional oiled geese have been potentially identified in Haines Point area (DC).
- The USFWS provided the following wildlife stats current as of 1900 on 7 February 2016:

Description	Number/Type Impacted by Oil	Number/Type Due to Cause Other Than Oil
Mortalities at site	1 Goose 1 Mallard 1 Merganser 1 Carp	1 Muskrat
Captured	22 Geese	
Tri-State custody	20	
Washed	16	
Euthanized at rehab facility	1 Goose 1 mallard	
Needs to be captured	8+	
Bird collection points:	Reagan National Airport, Haines Point, Constitution Gardens, 14 th Street Bridge	

• Tri-State Bird Rescue will remain on contract until FWS is satisfied that additional efforts are not necessary.

Public Relations

The USCG prepared and issued a press release on the evening of 4 February 2016. The release is posted on the USCG website.

USCG held a press conference. Primary questions from reporters were whether source had been identified, and specifically whether DVP is the source, and whether the booming strategy at the mouth of Roaches Run is effective. USCG responded that all sheen reports and possible sources were being investigated and that that due to tidal flow and winds, some oil may flow over the initial boom but secondary and tertiary booms have been placed for containment.

News – 4 February

Washington Post | 4 February

https://www.washingtonpost.com/local/virginia-politics/runoff-or-oil-sheen-spotted-on-potomac-with-no-cause-found-yet/2016/02/04/3623c498-cb82-11e5-88ff-e2d1b4289c2f_story.html

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PHOTOS: Mysterious 'sheen' on Potomac River baffles investigators, closes Gravelly Point http://wjla.com/news/local/photos-mysterious-sheen-on-potomac-river-baffles-investigators-closes-gravelly-point

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NBC4 | 02.05.16 (6PM broadcast)

Race to Contain Potomac River Spill, Save Geese <u>http://www.nbcwashington.com/news/local/Work-To-Contain-Potomac-River-Spill_-Save-Geese_Washington-DC-367875361.html</u>

Redbrick Town | 5 February | 0950 http://redbricktown.com/2016/02/potomac-river-oil-spill-cause-update/

USCG News | 5 February

http://coastguardnews.com/coast-guard-partner-agencies-respond-to-potomac-river-sheen/2016/02/05/

Washington City Paper | 5 February | 1208

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At least 18 birds, other wildlife being treated after exposure to Potomac River oil slick <u>http://wjla.com/news/local/potomac-river-oil-slick-sends-at-least-18-birds-other-wildlife-into-rehabilitation</u>

WJLA (Associated Press) | 02.05.16 Authorities work to clean up oily substance on Potomac River http://wjla.com/news/local/authorities-work-to-clean-up-oily-substance-on-potomac-river-02-05-2016

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http://www.nbcwashington.com/news/local/Oily-Substance-Source-in-Pototmac-Not-Found-Birds-Cleaned-367927511.html

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USCG | 6 February

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Washington Post | 6 February | 1935

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WUSA9 | 6 February | 1845

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News – 7 February

Alexandria News Coast Guard, Partner Agencies Respond To Potomac River Sheen; Treat Affected Waterfowl http://www.alexandrianews.org/coast-guard-partner-agencies-respond-to-potomac-river-sheen-treat-affected-waterfowl/

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WUSA9 | 7 February | 0853 Some birds lost feathers, oil clean-up continues on the Potomac <u>http://www.wusa9.com/story/news/local/virginia/2016/02/06/some-birds-lost-feathers-oil-clean-up-continues-potomac/79940848/</u>

Facebook

Department of Energy & Environment: <u>https://www.facebook.com/DDOE.DC/?fref=ts</u> Friends of Dyke Marsh: <u>https://www.facebook.com/DykeMarsh/</u> Potomac Riverkeepers Network: <u>https://www.facebook.com/PotomacRiverkeeperNetwork/?fref=ts</u>

Twitter

USCG News Releases: <u>https://twitter.com/uscoastguard?lang=en</u> Department of Energy & Environment: <u>https://twitter.com/DOEE_DC</u> Jeff Goldberg (@abc7jeffg): <u>https://twitter.com/abc7jeffg</u> Mark Seagraves (@SeagravesNBC4): <u>https://twitter.com/SegravesNBC4</u> PeggyFox (@PeggyTV): <u>https://twitter.com/PeggyTV</u> Potomac Riverkeeper Network (@PotomacRiver): <u>https://twitter.com/PotomacRiver</u> Water Keepers Chesapeake Twitter: https://twitter.com/WaterkeepersCP

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Participating Entities

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DEQ Personnel on Site

• Mark Miller

Prepared by:Mark Miller / Elizabeth Lohman - DEQ Pollution Response ProgramApproved by:John Giese, DEQ Preparedness and Response Program Manager

Oil spill liability Virginia Department of Environmental Quality (DEQ) Pollution Response Program

Oil Sheen on Roaches Run & Potomac River Situation Report #7 8 February 2016 @ 1700 -- 9 February 2016 @ 1600 Hours

Incident Reference Numbers:

- NRC # 1139760
- DEQ Incident Report (IR) #: 2016-N-2266
- VDEM HMVA Number: HMVA-16777
- DGIF EES Log: 36374

Location: Roaches Run Waterfowl Sanctuary and Potomac River





Description of Incident

- On afternoon/early evening of 3 February 2016, the DEQ received reports of oil sheen in the Alexandria, Virginia area.
- On 4 February 2016, DEQ staff conducted inspections of the Alexandria shoreline and confirmed the presence of sheening.
- DEQ made observations in Alexandria that suggests the sheen extends as far south as the Woodrow Wilson Bridge. Sheen was also observed at Gravelly Point Park and in Roaches Run.
- The origin of the sheen is suspected to be from one of the outfalls discharging to Roaches Run.

Activities

- DEQ with federal, state, local partners continue field investigations to identify source.
- National Park Service conducted a flyover on 4 February but no report at this time.
- MWAA deployed hard boom at the mouth of Roaches Run.
- On 4 February 2016, the USCG federalized the incident

- On 4 February 2016, emulsified product was identified along the shoreline of Roach's Run. The USCG collected a sample of for analysis. The USCG also requested a sample of transformer oil from a Dominion Virginia Power (DVP) transformer to determine whether the sheen is related to the 24 January mineral oil release from a DVP transformer (see below). Dominion agreed to the sampling.
- A Unified Command was set up at the Department of Energy & Environment (DOEE) office in the District of Columbia. Unified Command is composed of USCG, DOEE, Virginia Department of Environmental Quality, & Maryland Department of the Environment.
- Miller Environmental Group was contracted by the USCG to conduct required containment and removal actions.
- Senator Mark Warner's office and other congressional representatives have requested updates. The USCG is providing these updates.
- USCG developed an Incident Response Plan.
- Containment and removal of petroleum on Roaches Run is on-going.
- Source of sheen is not identified but source input appears limited now.
- Spread of oil sheen from Roaches Run to the Potomac River is controlled through deployment of booms.
- On 5 February, the USCG performed a flyover. Observations indicated the heaviest sheening exists in Roaches Run near the CSX tracks. Less sheening was observed along the Alexandria shoreline and downstream of the Woodrow Wilson Bridge compared to Roaches Run and compared to yesterday.
- The USCG met DVP at the site of the transformer release to collect samples of the mineral oil from the transformer. The USCG also collected a sample of the emulsified oil observed in the first manhole adjacent to the transformer station. Results are expected on Monday (8 February) or Tuesday (9 February).
- On 6 February, USCG field teams attended the outfall and conducted a SCAT assessment of the surrounding area. Sheening is still visible within Roaches Run and in the vicinity of the Gravelly Point boat ramps but not expanding (based on DEQ staff observations from 1400 hours on 6 February). No product is collecting at the outfall.
- On 7 February at approximately 1100, a USCG field team observed possible new sheening into Roaches Run at the 6th Street stormwater outfall. This outfall is inside of the current containment at the mouth of Roaches Run on the Potomac and is limiting spread to the Potomac.
- On the afternoon of 7 February, the USCG, DEQ and Arlington Fire Department inspected a couple of the manholes just upstream of the 6th Street outfall. The outfalls had a small amount of standing water but no oil emulsion or sheen.
- The USCG has engaged a second contractor, HEPACO, to assist with the deployment and maintenance of the booms that are being used to contain the oil sheen.
- On 8 February, the USCG Atlantic Strike Team arrived to assist the Unified Command with the field investigation.
- On 8 February, the USCG, DEQ and Arlington planned to conduct a dye test on the storm sewer system particularly the portion of the system that discharges at the Crystal City/VRE outfall. However, after an initial evaluation, the USCG and DEQ decided to cancel the dye test because insufficient flowing water was present in the storm sewer system to carry the dye to the outfall. The field team continued its investigation by pulling and inspecting manholes along the line.
- The Unified Command received **preliminary** results on 8 February from the first oil sample recovered from the water at Gravelly Point near Arlington, Virginia. The sample contains intermediate petroleum oil with characteristics most resembling those of moderate to severely weathered fuel oil. Additional samples taken from various locations at Roaches Run Waterfowl Sanctuary will be processed during the next few days.
- The Unified Command received the Oil Sample Analysis Report from the Marine Safety Lab for the first oil sample recovered from the water at Gravelly Point. The report is consistent with the preliminary results.

Planned Activities

• USCG field teams will continue to actively monitor the outfall and respond to reports tomorrow through the forecasted winter storm.

Wildlife Impacts

- On 4 February, DOEE reported approximately 18 oiled geese were identified on the shore of Roaches Run (Virginia).
- Volunteers are being organized to capture and rehab the wildlife.
- Tri-State was contracted by the USCG to perform water fowl recovery and cleaning.
- USFWS provided the following update on 8 February at 2041:
 - USFWS met with USDA Wildlife Services to discuss day's activities.
 - USFWS attended daily and safety brief held by USCG.
 - USFWS headed to NPS maintenance facility located along George Washington Memorial Parkway to setup wildlife morgue.
 - USDA were informed to collect any sick or dead birds that they encounter while surveying Roaches Run sanctuary and that all carcasses that were collected were to be transported to the wildlife morgue by COB.
 - USFWS personnel conducted wildlife surveys looking for bird concentrations, oiled birds, and presence of sheen/oil as far south as Fort Hunt Road. Large numbers of geese, none of which were oiled, were observed near Empress Court pull off; River Farm Park; and Hunting Creek areas. None of these sites were observed to have any sheen present.
 - Further north at Wolfe Street in Alexandria, light sheening and a slight odor were observed Waterfront and Founders Park, light sheen and light odor of oil were observed.
 - USDA delivered 8 carcasses to USFWS wildlife morgue, all but 1 was retrieved from Roaches Run. The other carcass (ring bill gull) was collected at the East Potomac golf course.

Description	Number/Type Impacted by Oil	Number/Type Due to Cause Other Than Oil	
Mortalities at site	1 Goose 4 Mallard 2 Merganser 1 <u>Scaup</u> 1 Green heron 1 Great blue heron 1 Ring bill gull 1 Carp	1 Muskrat	
Captured	35 Geese		
Tri-State custody	33		
Washed	27		
Euthanized at rehab facility	1 Goose 1 mallard		
Needs to be captured	Possibly a few		
Bird collection points:	_	Reagan National Airport, Haines Point, Constitution Gardens, 14 th Street Bridge	

• Tri-State Bird Rescue will remain on contract until FWS is satisfied that additional efforts are not necessary.

The USCG prepared and issued a press release on the evening of 4 February 2016. The release is posted on the USCG website.

USCG held a press conference. Primary questions from reporters were whether source had been identified, and specifically whether DVP is the source, and whether the booming strategy at the mouth of Roaches Run is effective. USCG responded that all sheen reports and possible sources were being investigated and that that due to tidal flow and winds, some oil may flow over the initial boom but secondary and tertiary booms have been placed for containment.

On 8 February, the USCG held a press conference to provide a status update on the response action and to provide information about management of impacted wildlife.

News – 4 February

Washington Post | 4 February https://www.washingtonpost.com/local/virginia-politics/runoff-or-oil-sheen-spotted-on-potomac-with-no-causefound-yet/2016/02/04/3623c498-cb82-11e5-88ff-e2d1b4289c2f_story.html

WJLA7 - TV Broadcast | 02.04.16 PHOTOS: Mysterious 'sheen' on Potomac River baffles investigators, closes Gravelly Point http://wjla.com/news/local/photos-mysterious-sheen-on-potomac-river-baffles-investigators-closes-gravelly-point

WTOP | 4 February

http://wtop.com/arlington/2016/02/d-c-works-to-identify-clean-up-oily-substance-on-potomac-river/

WUSA9 - Video | 02.04.16

Questions raised after 'oil sheen' appears on Potomac River <u>http://www.wusa9.com/story/news/local/virginia/2016/02/04/questions-raised-after-oil-sheen-appears-potomac-</u> river/79828052/

News – 5 February

Chesapeake Bay Journal | 5 February http://www.bayjournal.com/article/oil sheen on potomac near dc under investigation FOX5 | 5 February | 1649 http://www.fox5dc.com/news/local-news/84876682-story

Inside NoVA | 5 February | 1348 <u>http://www.insidenova.com/headlines/mysterious-oily-sheen-on-potomac-river-in-arlington-impacting-birds/article_934988ce-cc36-11e5-99f7-5be573dff02c.html</u>

NBC4 | 02.05.16 Oily Substance Coats Bird Sanctuary, 8 Miles of Potomac River <u>http://www.nbcwashington.com/news/local/Authorities-Work-to-Clean-Up-Oily-Substance-on-Potomac-River-</u> <u>367823161.html? osource=SocialFlowTwt_DCBrand</u>

NBC4 | 02.05.16 (11AM broadcast) Authorities Work to ID Oily Substance on Potomac http://www.nbcwashington.com/news/local/Potomac-River-Cleanup_Washington-DC-367821561.html

NBC4 | 02.05.16 (6PM broadcast) Race to Contain Potomac River Spill, Save Geese

http://www.nbcwashington.com/news/local/Work-To-Contain-Potomac-River-Spill -Save-Geese Washington-DC-367875361.html

Redbrick Town | 5 February | 0950 http://redbricktown.com/2016/02/potomac-river-oil-spill-cause-update/

USCG News | 5 February

http://coastguardnews.com/coast-guard-partner-agencies-respond-to-potomac-river-sheen/2016/02/05/

Washington City Paper | 5 February | 1208 <u>http://www.washingtoncitypaper.com/blogs/citydesk/2016/02/05/rainbow-sheen-reported-in-potomac-has-tainted-more-than-a-dozen-geese/</u>

Washington Post | 5 February

https://www.washingtonpost.com/local/oil-sheen-on-potomac-sheaths-geese-authorities-are-trying-to-containit/2016/02/05/e3118bbc-cc37-11e5-88ff-e2d1b4289c2f_story.html https://www.washingtonpost.com/local/authorities-work-to-clean-up-oily-substance-on-potomacriver/2016/02/05/ce650486-cc15-11e5-b9ab-26591104bb19_story.html

WJLA | 02.05.16

At least 18 birds, other wildlife being treated after exposure to Potomac River oil slick <u>http://wjla.com/news/local/potomac-river-oil-slick-sends-at-least-18-birds-other-wildlife-into-rehabilitation</u>

WJLA (Associated Press) | 02.05.16 Authorities work to clean up oily substance on Potomac River http://wjla.com/news/local/authorities-work-to-clean-up-oily-substance-on-potomac-river-02-05-2016

WMAL | 5 February http://www.wmal.com/2016/02/05/environmental-impacts-of-potomac-oil-spill-already-being-seen/

WTOP | 5 February | 1559 http://wtop.com/dc/2016/02/coast-guard-working-to-clean-oil-sheen-from-potomac-river/

WTOP | 5 February | 2050

http://wtop.com/dc/2016/02/officials-oil-sheen-on-potomac-river-has-decreased-dramatically/slide/1/

WUSA9 | 02.05.16 Coast Guard: Oily sheen on Potomac is mostly gone <u>http://www.wusa9.com/story/news/local/virginia/2016/02/05/authorities-work-clean-up-oil-sheen-potomac-river/79874252/</u>

News – 6 February

Alexandria News | 6 February https://www.alexandrianews.org/coast-guard-partner-agencies-respond-to-potomac-river-sheen/

NBC4 | 6 February

http://www.nbcwashington.com/news/local/Oily-Substance-Source-in-Pototmac-Not-Found-Birds-Cleaned-367927511.html

Richmond Times Dispatch | 6 February | 1300 http://www.richmond.com/news/virginia/article 105e4bce-3626-5131-b2d3-cd9540f95f8c.html

USCG | 6 February

http://coastguardnews.com/search-continues-for-source-of-potomac-river-oil-sheen/2016/02/06/

Washington Post | 6 February | 1935

https://www.washingtonpost.com/local/source-of-potomac-oil-spill-still-a-mystery-as-sheen-begins-todissipate/2016/02/06/cf6a4ade-cd1a-11e5-a7b2-5a2f824b02c9_story.html

WUSA9 | 6 February | 1845

http://www.wusa9.com/story/news/local/virginia/2016/02/05/authorities-work-clean-up-oil-sheen-potomac-river/79874252/

News – 7 February

Alexandria News

Coast Guard, Partner Agencies Respond To Potomac River Sheen; Treat Affected Waterfowl http://www.alexandrianews.org/coast-guard-partner-agencies-respond-to-potomac-river-sheen-treat-affected-waterfowl/

Fredricksburg Free Lance Star | 7 February | 2400 http://www.fredericksburg.com/news/va_md_dc/coast-guard-oil-sheens-in-potomac-river-mostlygone/article_9c75ea55-86da-5883-9f31-07f5f795873e.html

WUSA9 | 7 February | 0853 Some birds lost feathers, oil clean-up continues on the Potomac <u>http://www.wusa9.com/story/news/local/virginia/2016/02/06/some-birds-lost-feathers-oil-clean-up-continues-potomac/79940848/</u>

8 February

Fox5 | 8 February Coast Guard: Fuel oil was substance that spilled in Potomac http://www.fox5dc.com/news/86268693-story

NBC4 \ 8 February Coast Guard: Initial Tests Find Fuel Oil Caused Potomac Sheen <u>http://www.nbcwashington.com/news/local/Coast-Guard-Initial-Tests-Fuel-Oil-Potomac-Sheen-368080311.html</u>

Washington City Paper | 8 February Source of Potomac Oil Spill Unclear as Investigation Continues <u>http://www.washingtoncitypaper.com/blogs/citydesk/2016/02/08/source-of-potomac-oil-spill-unclear-as-investigation-continues/</u>

Washington Post | 8 February Coast Guard identifies oil in refuge and river as fuel oil; source still unknown <u>https://www.washingtonpost.com/local/coast-guard-to-dye-storm-water-system-in-search-of-oil-spill-</u> source/2016/02/08/3e767f3a-ce45-11e5-b2bc-988409ee911b_story.html

WDEL

Delaware's Tri-State Bird Rescue decontaminates geese after Potomac oil spill <u>http://www.wdel.com/story/73324-video-delawares-tri-state-bird-rescue-decontaminates-geese-after-potomac-oil-spill</u>

WUSA9 | 8 February

http://www.wusa9.com/story/news/local/arlington%20/2016/02/08/source-potomac-river-oil-spill-remainsunknown/80029140/ Department of Energy & Environment: <u>https://www.facebook.com/DDOE.DC/?fref=ts</u> Friends of Dyke Marsh: <u>https://www.facebook.com/DykeMarsh/</u> Potomac Riverkeepers Network: <u>https://www.facebook.com/PotomacRiverkeeperNetwork/?fref=ts</u>

Twitter

USCG News Releases: <u>https://twitter.com/uscoastguard?lang=en</u> Department of Energy & Environment: <u>https://twitter.com/DOEE_DC</u> Jeff Goldberg (@abc7jeffg): <u>https://twitter.com/abc7jeffg</u> Mark Seagraves (@SeagravesNBC4): <u>https://twitter.com/SegravesNBC4</u> PeggyFox (@PeggyTV): <u>https://twitter.com/PeggyTV</u> Potomac Riverkeeper Network (@PotomacRiver): <u>https://twitter.com/PotomacRiver</u> Water Keepers Chesapeake Twitter: <u>https://twitter.com/WaterkeepersCP</u>

Blogs

Blue Virginia: http://www.bluevirginia.us/2016/02/del-mark-levine-has-some-excellent.html

Dominion Virginia Power – Mineral Oil Release – January 24

- On 24 January 2016, a DVP transformer failed at the intersection of South 18th Street and South Fern Street, Arlington, Virginia. Approximately 13,500 gallons of mineral oil was released to surrounding soils and a series of underground vaults. A small fraction of oil was observed in a manhole immediately adjacent to the transformer. DVP engaged a contractor to conduct response and recovery operations. Approximately 11,000 gallons of free product was recovered, and the balance of the oil was believed to be entrained in the soil and gravel. Several hundred tons of soil and gravel were removed. The bottom of the excavation was sampled for DRO (700 ppm). DVP backfilled the area with clean fill. After the initial spill, DVP has monitored the stormwater sewer system along Crystal Drive between 18th Street and 15th Street and at the Crystal City/VRE stormwater outfall to Roaches Run – both locations are where, based on Arlington County staff guidance, any oil release would likely show up. No free product, emulsion, or oil sheen has been observed at these points.
- On 4 February 2016, DEQ spoke with John Black, DVP, and he affirmed the above including the last inspection of the stormwater systems and outfalls at Roaches Run was conducted at 1205 on 4 February 2016 and no sheen was observed at any location except for the first manhole adjacent to the transformer station. The sheen at this latter location was minimal.
- At this time, the 24 January 2016 release has not been identified as the source of these sheen reports.
- Dominion is considering flushing the storm drain line entering the storm water drop inlet adjacent to the substation. Mineral oil continues to collect in this drop inlet.

District of Columbia

• At the beginning of February the National Response Center, US Coast Guard, and the District of Columbia's Department of Energy & Environment (DOEE) have received and investigated numerous reports of oil sheen on the Anacostia River and the Potomac River, specifically in the vicinity of Buzzard Point and James Creek marinas and Joint Base Anacostia Bolling.

- On 3 February 2016, the DOEE reported the sheen appeared associated with storm water and ice melt run off from several locations along the river. The DOEE planned to deploy containment boom to the area south of Lot 7 at RFK Stadium to capture any potential discharge from buried storm drains as the snow continues to melt.
- The sheen reports at the confluence of the Anacostia and the Potomac Rivers have not been correlated to the sheen reports at Roaches Run and the Potomac River down to Alexandria.

Participating Entities

• US Coast Guard – Sector Baltimore, US National Park Service, USFWS, MWAA, DEQ, MDE, DOEE, DGIF, Arlington County, VMRC

DEQ Personnel on Site

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