

## COMPLAINT INVESTIGATION REPORT

|                           |                          |                  |                             |
|---------------------------|--------------------------|------------------|-----------------------------|
| Project Name:             | Mountain Valley Pipeline | Inspector:       | Marshall Willis             |
| Inspection Date:          | Friday, February 7, 2020 | Project Contact: | Brian Clauto, Cory Chalmers |
| Spread G:<br>Craig County | STA 11475+00 – 11490+00  | Weather:         | Rainy                       |

**ACTIVE STAGE OF CONSTRUCTION:** (Check all that apply)

- ☐ Tree Felling
 ☐ Clearing/Grubbing
 ☐ Grading
 ☐ Trenching
 ☐ Stringing/Welding  
☐ Lowering/Backfilling
 ☐ Final Restoration
 ☐ Temp. Stabilization
 ☐ Perm. Stabilization
 ☒ Dormant

- |    |                                                                                                                                                                                 | Yes                                 | No                                  | N/A                      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. | Are controls installed and implemented in accordance with the approved erosion and sediment control plan and stormwater management plans?                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 2. | Are all control measures properly maintained in effective operating condition in accordance with good engineering practices and, where applicable, manufacturer specifications? | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. | Areas of offsite sediment deposition observed?                                                                                                                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Background:** This investigation was conducted in response to an email received on February 06, 2020 for the Stevers Gap Trail area.

- The complaint describes a "large volume of muddy water [was] raging down the road in multiple newly formed gullies." The source of the "mud" was described as "sediment being washed from MVPs laydown yard and pipeline crossing" as a result of "increased volume of surface runoff from the denuded pastures surrounding their pipeline and laydown yard into a small perennial stream".
- The complaint also describes sediment bypassing erosion control structures, "leaving the LOD and entering the open throat of the sinkhole" located off ROW "near MP 217".

**Observations:**

- Approximately 3.88" precipitation recorded in the area. (2/5/2020 – 2/7/2020). Significant flooding evident throughout area. See Figures 1, 2, 3 and 4.
- Stormwater actively flowing down upper Stevers Gap Trail during time of inspection. See Figure 7.
- Streams S-PP1 and S-PP2 were in high flow conditions. S-PP2 was flowing outside its banks, through upslope ROW perimeter controls and onto the LOD. Perimeter P1 controls were overwhelmed and undermined at that location and stormwater run-on crossed over RCE and down into Stevers Gap Trail. See Figures 5, 6, 7 and 8.
- No evidence of sediment discharge off ROW was found during the inspection.
- No evidence was found of sediment discharge into karst feature at approx. STA 11480+00. See Figures 14, 15, and 16.
- Several corrective actions were noted during the investigation. Corrective actions are noted below: See Figures 8, 9, 10, 12, 13, 17 and 18.

**Comments:** ROW inspected in Craig County from STA 11475+00 though STA 11490+00. The following resources were documented during the onsite complaint investigation: S-PP1 and S-PP2.

- Total Rain Accumulation from 2/5 through 2/7: 3.88"
- Rain event information was provided by Weather Underground Station "KVANEWP0127", located 0.5 mile from the ROW crossing on Stevers Gap Trail.

**Routine Maintenance:** (72-Hour Deadline from Notification)

- STA 11480+00: Bridge maintenance needed. Minor hole in fabric underlayment.

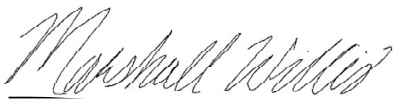
**Ineffective Controls:** (24-Hour Deadline from Notification)

- STA 11480+00: Stabilize drainage channel under CWD bridge.
- STA 11489+00: CFS end-treatment of CWD plunge pool undermined.
- STA 11488+00: Undermined P1.
- STA 11488+50: Waterbar end-treatment maintenance needed. Overwhelmed by offsite run-on.
- STA 11487+00: Offsite run-on unable enter CWD inlet due to landowner access road.
- STA 11489+80: Perimeter P1 undermined from stormwater run-on from S-PP2.

**Recommended Corrective Action:** Maintain and install all controls per the approved PSS&S.

**Deadline:** Various - See Comments

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

**Inspector Signature:** A handwritten signature in black ink, appearing to read "Marshall Willis", is written over a horizontal line.

**Date:** Friday, February 7, 2020

## FIELD INSPECTION PHOTO LOG

**Project Name:** Mountain Valley Pipeline

**Date:** Friday, February 7, 2020

**Figure 1: Stevers Gap Road** – Flooding of Sinking Creek along Stevers Gap. Facing E looking upstream.



**Figure 2: Stevers Gap Road** – Flooding of Sinking Creek along Stevers Gap. Facing SW looking downstream.



**Figure 3: Stream S-QQ2** – Flooding along Sinking Creek at MVP-CR-258.03 crossing. Upstream of Stevers Gap Trail looking upstream.



**Figure 4: Stream S-QQ2** – Flooding along Sinking Creek at MVP-CR-258.03 crossing. Upstream of Stevers Gap Trail looking downstream.



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**Figure 5: STA 11489+75** – Looking upstream at stream S-PP2. Overbank flow running onto ROW through perimeter P1 controls.



**Figure 6: STA 11489+70** – Looking upstream at S-PP1 and S-PP2. S-PP2 overbank flow impacting perimeter controls and entering ROW onto RCE.



**Figure 7: STA 11489+70** – Looking N down Stevers Gap Trail. Stream S-PP1 flowing into existing culvert. Stream S-PP2 overbank flow across MVP RCE and down Stevers Gap Trail.



**Figure 8: STA 11489+80** – Perimeter P1 undermined due to onsite run-on from stream S-PP2.



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**Figure 9: STA 11487+00** – Offsite run-on bypassing CWD inlet and running down landowner access road entrance.



**Figure 10: STA 11487+00** – Offsite run-on bypassing CWD inlet and running down landowner access road entrance.



**Figure 11: STA 11488+50** – Offsite storm water run-on flowing down waterbar.



**Figure 12: STA 11488+50** – Waterbar end-treatment overwhelmed. Discharge entering CWD. STA 11489+00 CWD end-treatment undermined.



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**Figure 13: STA 11488+00** – P1 undermined by CWD discharge. Discharge unable to get off ROW due to landowner access road.



**Figure 14: STA 11481+00** – Looking W at drainage feature crossing leading to karst “sinkhole” at STA 11480+00. No sediment off ROW evident during inspection.



**Figure 15: STA 11480+50** – Controls in place and functioning properly above “sinkhole”. No offsite sediment discharge evident.



**Figure 16: STA 11480+00** – No offsite sediment discharge evident above karst “sinkhole” feature.



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**Figure 17:** STA 11480+00 – Bridge underlayment repair needed.



**Figure 18:** STA 11480+00 – Stabilize denuded drainage channel under bridge crossing.

