



# **Quarterly Report**

**July 1, 2021  
Through  
September 30, 2021**

PURSUANT TO PARAGRAPH 19, OF THE CONSENT DECREE BETWEEN BALTIMORE COUNTY AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, DEPARTMENT OF JUSTICE AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Pursuant to Paragraph 19 of the Consent Decree between Baltimore County (County) and The United States Environmental Protection Agency (EPA), the Department of Justice (DOJ), and the Maryland Department of the Environment (MDE), this document constitutes the required Quarterly Report for the period **July 1, 2021** through **September 30, 2021**.

The quarterly report discusses activities and progress of Baltimore County towards compliance with the requirements set forth in the Consent Decree including:

- i. Non-Pump Station and Pump Station SSO Structure discharges
- ii. Construction project status
- iii. Collection system inspection
- iv. SRRR plan implementation/progress
- v. FOG program
- vi. Supplemental Environmental Project status, and
- vii. Compliance issues

#### **i. Non-Pump Station and Pump Station SSO Structure Discharges**

Discharges from Sanitary Sewer Overflow Structures took place at the locations and dates during the reporting period as detailed in **Attachment A**.

A summary of flow metering information for Non-Pump Station SSO Structures is included as **Attachment A1**.

#### **ii. Construction Project Status**

**Attachment B** presents the status of Paragraph 7 – Non-Pump Station SSO Structure Elimination projects and Paragraph 13F - Pump Station Rehabilitation Repair and Replacement projects that are in design and construction during the reporting quarter.

#### **iii. Collection System Inspection**

The County has completed all gravity sewer line inspections required under Paragraphs 8 and 15 of the Consent Decree. The County continues compliance with all gravity line CCTV inspections within the required 10 working days of the occurrence of an overflow for each SSO that occurred during this reporting period. **Attachment C** details the County's inspection response to each of the overflow that occurred during the reporting period.

#### **iv. SRRR Plan Implementation/Progress**

The SRRR Plans contain numerous projects in a variety of locations and stages of planning, design and construction. **Attachment D** includes a list of each sewershed and a summary status of Plan implementation. The implementation of the recommended improvement projects is proceeding; however, acquisition of required rights-of-way and regulatory permits may require a significant period of time thereby resulting in possible delay to complete the construction work.

The County's recommendations in some of the SRRR Plans for meter basins that exhibited excessive I/I and design-storm simulated model-predicted SSOs included the comprehensive rehabilitation of all pipe segments and manholes, increased hydraulic capacity and/or testing and repair of sewer house connections and laterals. Some of the recommended repairs were



revised based on design preparation and review of improvement projects. Additionally, some miscellaneous sewer/manhole/lateral repairs that were included in the SRRR Plans may be revised based on a review of the original and updated inspection data.

**v. FOG Program**

The County has completed implementation of the FOG Program Modification Plan.

**vi. Supplemental Environmental Project Status**

Completed.

**vii. Compliance Issues**

In accordance with Paragraph 19, Item B.vii, the following is a summary of Consent Decree compliance issues.

**a. Consent Decree projects or requirements certified as complete during the reporting period:**

Red House Run Pump Station Action Plan

On July 17, 2021, a storm event caused power loss to the primary and secondary electrical feeds of the Red House Run Pump Station, thereby resulting in a 900,000 gallon discharge. Since the power loss to the primary and secondary pump station electrical feeds was caused by a storm event that is beyond the control of the County, a plan to prevent further SSOs at the Red House Run Pump Station due to power outages is not needed.

Gray Manor Pump Station Action Plan

On July 17, 2021, a storm event caused power loss to the primary and secondary electrical feeds of the Gray Manor Pump Station, thereby resulting in a 724,000 gallon discharge. Since the power loss to the primary and secondary pump station electrical feeds was caused by a storm event that is beyond the control of the County, a plan to prevent further SSOs at the Gray Manor Pump Station due to power outages is not needed.

Corsica Pump Station Action Plan

On July 17, 2021, a storm event caused power loss to the primary electrical feed of the Corsica Pump Station, which resulted in a 60,000 gallon discharge. The MDE- and County-approved backup electrical source for the station is a portable generator. When alerted of the power loss, a pump station crew was mobilized to the station with a portable generator; however, the power was restored and the station was operating normally by the time the crew arrived at the station. The action plan to prevent further SSOs at the Corsica Pump Station due to power outages is to install an on-site generator. Design work for the generator was included in the County's Corsica Pump Station rehabilitation construction project (County Contract 21162 SXO), which will be advertised on August 27, 2021 and bid opening is scheduled for October 28, 2021. The portable generator will remain the secondary power source until the permanent on-site generator is installed and the rehabilitation project is certified as complete.



### New White Marsh Pump Station Action Plan

On August 7 and 11, 2021, power losses to the primary electrical feed of the New White Marsh Pump Station resulted in 772,000 and 901,000 gallon discharges, respectively. The MDE- and County-approved backup electrical source for the station is a secondary electrical feed; however, the station equipment did not automatically transfer to the secondary feed. A post-SSO investigation of the station's electrical system found that all of the station primary electrical breakers opened, which prevented the automatic transfer switch to transfer electrical power from the secondary feed. The County tested the breakers and programmable logic controllers (PLCs); however, all equipment was properly operating. As a precaution, County staff remained at the pump station during business hours to monitor station operation throughout the day. To simulate the power loss event, the County requested the Baltimore Gas & Electric company to stop the primary electrical service to the station. During the simulation, County crews identified a possible issue with the PLCs and further investigation and visual confirmation of equipment failure identified faulty PLCs; therefore, the action plan is to:

1. Replace the PLCs, which was completed on September 3, 2021
2. Have County staff remain at the pump station for 1 week after the PLC replacement is completed to confirm that the station is operating as normal

### Texas Pump Station Action Plan

On August 19, 2021, the County submitted a revised Action Plan.

On May 26, 2021, pump shutdown at the Texas Pump Station resulted in an SSO discharge of 213,000 gallons. A post-SSO analysis indicated intermittent power disruption of the primary pump station electrical feed, which caused the four variable frequency drives (VFDs) to fault and shut down the pumps thereby resulting in the SSO discharge. The VFDs are set to automatically reset if they fault; however, due to a VFD's high consequence of failure, some VFD faults, such as those experienced on May 26, 2021, must be manually reset so that County crews can visually inspect the equipment before restarting the drives. It is suspected that the power disruption was of such short duration that the station's automatic transfer switch did not activate the secondary power feed. The County completed post-SSO equipment testing but could not replicate this type of power disruption to confirm the root cause of the VFD faults and the station has not experienced previous power disruptions that did not activate the secondary power feed. Since the separate and redundant power supply is the County- and MDE-approved backup power for this pump station and the County could not confirm the root cause of the power disruption, a plan to prevent further SSOs at the Texas Pump Station due to power outages is not needed.

### Lodge Forest Pump Station Action Plan

On August 13, 2021, the County submitted a revised Action Plan.

On June 14, 2021, pump shutdown at the Lodge Forest Pump Station resulted in an SSO discharge of 83,000 gallons. When they arrived at the station, the County staff manually reset the master control center emergency generator breaker and returned the station to normal operation. A post-SSO analysis indicated that a possible power



surge of the electrical feed disrupted power to the station. The station's emergency generator automatically started; however, it is suspected that the power surge tripped the generator breaker in the master control center, which prevented power to the pumps and resulted in the SSO discharge. Since the emergency generator supply is the County- and MOE-approved backup power for this pump station, a plan to prevent further SSOs at the Lodge Forest Pump Station due to power outages is not needed.

**b. Consent Decree requirements due to be completed during the reporting period, but not completed:**

Patapsco SRRR

On September 2, 2021, The County submitted a time extension request for the Patapsco SRRR Plan Implementation. The Consent Decree deadline for completion certification of the Patapsco SRRR Plan is September 6, 2021 and the requested deadline is October 6, 2024.

Implementation certification of the Patapsco SRRR Plan is contingent upon completion of the projects listed below:

<b>Project</b>	<b>Requested Time Extension Deadline</b>	<b>Project Status</b>
Patapsco Basin 7 Sewer Rehabilitation	April 6, 2024	Design
Patapsco Basin 10 Sewer Rehabilitation	January 6, 2023	Design
Patapsco Cedar Branch North Fork Relief Sewer	September 6, 2022	Notice to Proceed (17150 SX0) issued on 8/18/2022
Patapsco Structural Improvements	October 6, 2024	Design

The Patapsco Structural Improvements project is the last project to be completed in the Patapsco sewershed; therefore, the County requests a 37-month time extension to certify implementation completion of the Patapsco SRRR Plan.

On September 6, 2021, the County completed implementation of all sewer and manhole cleaning/inspection maintenance work that was identified in the Patapsco SRRR Plan.

**c. Problems that may prevent the County from meeting future Consent Decree compliance deadlines:**

On September 2, 2021, the County submitted a potential delay notification for the Essex Sewer Replacement Project. The potential delay is due to the additional design time needed to complete supplemental field investigations and an alternatives analysis and to revise the project scope of work accordingly.

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I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete.

*Lisa K Eicholtz*

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Lisa K. Eicholtz, PE  
Chief, Bureau of Engineering and Construction

Control Document No. 382



## **Attachment A - Discharges from Overflow Structures**





## Pump Station Overflow Structures

<b>Name</b>	Red House Run
<b>Address</b>	1100 68 <sup>th</sup> Street and Lake Drive
<b>Date Of Discharge</b>	07/17/2021
<b>Duration Of Overflow</b>	5 Hrs. 40 Mins.
<b>Date Of Relevant Weather Conditions</b>	07/17/2021
<b>Description Of Relevant Weather Conditions</b>	Wet
<b>Gallons Discharged</b>	900,000
<b>Receiving Waters</b>	Back River
<b>Identified Cause</b>	Pump Station lost the primary and secondary electrical service feeder
<b>Details Of Corrective Action Taken or Planned</b>	One feeder was restored and the pumps started and pumped down the wetwell and the overflow stopped.

<b>Name</b>	Gray Manor
<b>Address</b>	7825 Trappe Road
<b>Date Of Discharge</b>	07/17/2021
<b>Duration Of Overflow</b>	5 Hrs. 55 Mins.
<b>Date Of Relevant Weather Conditions</b>	07/17/2021
<b>Description Of Relevant Weather Conditions</b>	Wet
<b>Gallons Discharged</b>	724,000
<b>Receiving Waters</b>	Bear Creek
<b>Identified Cause</b>	Pump Station lost the primary and secondary electrical service feeder
<b>Details Of Corrective Action Taken or Planned</b>	One feeder was restored and the pumps started and pumped down the wetwell and the overflow stopped.

<b>Name</b>	Corsica Road
<b>Address</b>	2208 Corsica Road
<b>Date Of Discharge</b>	07/17/2021
<b>Duration Of Overflow</b>	11 Hrs.
<b>Date Of Relevant Weather Conditions</b>	07/17/2021
<b>Description Of Relevant Weather Conditions</b>	Wet
<b>Gallons Discharged</b>	60,000
<b>Receiving Waters</b>	Barren Point
<b>Identified Cause</b>	Pump Station lost electrical service power to the pump station. Crews were not able to get a generator to site.
<b>Details Of Corrective Action Taken or Planned</b>	Once electrical service power was restored, the pumps started and pumped down the wetwell and the overflow stopped.



**Pump Station Overflow Structures (Continued)**

<b>Name</b>	White Marsh
<b>Address</b>	1235 Reames Road
<b>Date Of Discharge</b>	08/07/2021
<b>Duration Of Overflow</b>	70 mins.
<b>Date Of Relevant Weather Conditions</b>	08/07/2021
<b>Description Of Relevant Weather Conditions</b>	Dry
<b>Gallons Discharged</b>	772,000
<b>Receiving Waters</b>	White Marsh Run
<b>Identified Cause</b>	Primary electrical service feeder was lost at the station and switchgear did not switch to secondary feeder.
<b>Details Of Corrective Action Taken or Planned</b>	Crew arrived onsite and manually closed in the breaker for the secondary feeder. The pumps turned on and stopped the overflow.

<b>Name</b>	White Marsh
<b>Address</b>	1235 Reames Road
<b>Date Of Discharge</b>	08/11/2021
<b>Duration Of Overflow</b>	1 Hr.
<b>Date Of Relevant Weather Conditions</b>	08/11/2021
<b>Description Of Relevant Weather Conditions</b>	Dry
<b>Gallons Discharged</b>	901,000
<b>Receiving Waters</b>	White Marsh Run
<b>Identified Cause</b>	Primary electrical service feeder was lost at the station and switchgear did not switch to secondary feeder.
<b>Details Of Corrective Action Taken or Planned</b>	Crew arrived onsite and manually closed in the breaker for the secondary feeder. The pumps turned on and stopped the overflow.



**Non-Pump Station Overflow Structures – Metered**

<b>Name</b>	Overbrook Road
<b>SSO ID</b>	118
<b>Address</b>	Overbrook Road & Medwick Garth
<b>Date of Discharge</b>	9/1/2021
<b>Duration of Overflow</b>	3 Hrs. 9 Mins.
<b>Date of Relevant Weather Conditions</b>	9/1/2020
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	12,389
<b>Receiving Waters</b>	Maiden's Choice Creek
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity.
<b>Details of Corrective Action Taken or Planned</b>	The County continues to meet and coordinate with Baltimore City to complete the needed hydraulic improvements to the downstream collection system, which is maintained by the City.

<b>Name</b>	Queen Anne Drive
<b>SSO ID</b>	129
<b>Address</b>	Queen Anne Drive & Hillcrest Avenue
<b>Date of Discharge</b>	9/1/2021
<b>Duration of Overflow</b>	1 Hrs. 7 Mins.
<b>Date of Relevant Weather Conditions</b>	9/1/2020
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	5,015
<b>Receiving Waters</b>	Herring Run
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity.
<b>Details of Corrective Action Taken or Planned</b>	County submitted time extension request to eliminate overflow structure by 8/3/2023.



**Attachment A1: Summary of Non-Pumping Station Overflow Structure Monitoring**

Date of Rain Event		9/1/2021
Rain (inches)		1.8"-2.4"
SSO Name	SSO ID	
Alter Road	22	
Southern Cross Drive	23A	
Southern Cross	23B	
Patterson Avenue	24	
Overbrook Road & Medwick Garth	118	12,389
Marnat Road	113	
Aiken Avenue	41	
Queen Anne Drive	129	5,015



## **Attachment B - Construction Projects Status**



## Non-Pump Station SSO Structures

Project Name	Date of Construction Notice to Proceed	Sewershed Name	Original Consent Decree Elimination Date	Current Consent Decree SSO Elimination Date	SSO Eliminated	Status
Powder Mill Interceptor Relief Sewer Phase I – 18180 SXO (SSOs 22, 23A, 23B, 24)	9/3/2019	Gwynns Falls	3/22/2017	TBD	No	On 1/26/21 the project achieved functional use. The Phase II project must be completed before eliminating the SSO structures.
Powder Mill Interceptor Relief Sewer Phase II (SSOs 22, 23A, 23B, 24)	-	Gwynns Falls	3/22/2017	TBD	No	On 2/14/2017, the County submitted a time extension request with an undefined elimination date. A second time extension request with a definitive elimination date will be submitted after right-of-way acquisition and environmental permits are obtained and construction notice to proceed is issued for the Phase II project. Baltimore City is attempting to acquire an easement within the City that is needed for construction.
East Branch Herring Run Relief Sewer – 14117 SX0 (SSO 41 & 129)	2/5/2020	Herring Run	3/20/2018	8/3/2023	No	On 4/27/2020 the County submitted a time extension request to eliminate the overflow structure by 8/3/2023. The extension request approval letter from the Maryland Department of Environment incorrectly identified the new deadline as 11/5/2019. On 9/23/2021, the County submitted a correction of records letter to confirm the new approved deadline of 8/3/2023. This project is 68% complete.
Elimination of SSOs 116, 117, and 118	-	West Low Level	9/20/2016	TBD	No	On 6/22/2016, the County submitted a time extension request with an undefined SSO elimination date. A second time extension request with a definitive SSO elimination date will be submitted after the City shares with the County their proposed downstream corrective actions and construction schedule. The County continues to meet and coordinate with Baltimore City to complete the needed hydraulic improvements to the downstream collection system, which is maintained by the City.
Elimination of SSO 113	-	Jones Falls	9/20/2016	TBD	No	



**Pump Station Rehabilitation, Repair and Replacement**

<b>Project Name</b>	<b>Original Consent Decree Deadline</b>	<b>Project Phase</b>	<b>Time Extension Request Submittal Date</b>	<b>Requested Deadline Date</b>	<b>Reason for Delay</b>
Lodge Forest Manor	3/20/2020	Design (RoW)	6/3/2021	10/20/2023	DNR easement acquisition.
Stansbury Manor	3/20/2020	Construction (Bid date 9/30/2021)	3/31/2021	4/20/2024	MAA property acquisition.
Millers Island	6/1/2022	Construction			
Turkey Point	6/1/2022	Construction			
Penwood Terrace	6/1/2023	Construction			
Corsica	6/1/2023	Design			
Fort Howard	6/1/2023	Design			



## **Attachment C - CCTV in Response to an SSO**





<b>Date of SSO</b>	<b>Location</b>	<b>CCTV Inspection Date</b>	<b>Exemption</b>
7/2/2021	1940 Winder Road	7/8/2021	
7/14/2021	1 Red Barn Court	7/15/2021	
7/21/2021	4980 Mercantile Rd		B
9/1/2021	1745 Ellinwood Road	9/3/2021	
9/1/2021	Queen Anne Drive & Hillcrest Avenue		D
9/1/2021	Overbrook Road and Medwick Garth		D

Allowable Exemptions:

- A. The cause of the SSO was a blockage in a County-owned lateral adjacent to the gravity line segment and the County cleans the County-owned lateral
- B. The cause of the SSO was a blockage in the gravity line segment and visible directly from the manhole
- C. The County has previously CCTV inspected the line segment(s) due to an earlier blockage and the County is in the process of developing or implementing corrective action
- D. The location is an identified overflow structure and is being monitored pursuant to Paragraph 7.C and the County is involved in a process designed to eliminate the overflow structure



# Attachment D - Status of SRRR Plan Implementation



**Status of SRRR Plan Implementation**

<b>Sewershed</b>	<b>Original Consent Decree Deadline</b>	<b>Date of Potential Delay Notification</b>	<b>Reason for Delay</b>	<b>Comments</b>
Patapsco	9/6/2021 Requested Date: 10/6/2024	9/2/2021 (Time extension request)	Right of entry acquisition	On September 6, 2021, The County submitted a time extension request for the Patapsco SRRR Plan Implementation. The Consent Decree deadline for completion certification of the Patapsco SRRR Plan is September 6, 2021 and the requested deadline is October 6, 2024.
Delmar	4/18/2022	11/22/2019	Right of entry acquisition	
Duck Creek	4/18/2022	2/5/2020	Expanded project scope	
Dundalk	4/18/2022	11/22/2019	Right of entry acquisition	
East Point	4/18/2022	11/22/2019	Right of entry acquisition	
Essex	4/18/2022	12/10/2019	Right of entry acquisition/permits	
Gray Manor	4/18/2022	6/19/2019	State and Local Permitting	
Texas	4/18/2022	7/10/2019	Right of entry acquisition	
Longquarter	4/18/2024	11/26/2019	Right of entry acquisition	
Redhouse Run	4/18/2024			
Whitemarsh	4/18/2024			
Stemmers Run	9/6/2024			
Gunpowder	4/18/2026			



**Substantially Completed SRRR Plan implementations <sup>1</sup>**

Sewershed	Original Consent Decree Deadline	Date of Potential Delay Notification	Reason for Delay	Comments
Bird River	9/29/2020	3/15/2019	Right of entry acquisition	There are 3 assets (i.e. sewer and manholes) which represents approximately 60 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.
Bread & Cheese	9/29/2020 Requested date: 3/6/2022	5/28/2020 (Time extension request)	Right of entry acquisition	There are 127 asset (i.e. sewer and manholes) which represents approximately 100 percent of the total assets with structural repair recommendations that remain outstanding. Notice to Proceed was February 27, 2021. The outstanding structural repairs have no effect on the performance of the collection system.
Bengies	9/29/2020	3/15/2019	Right of entry acquisition	There are 96 assets (i.e. sewer and manholes) which represents approximately 100 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.
Cockeysville	9/29/2020	3/15/2019	Right of entry acquisition	There are 12 assets (i.e. sewer and manholes) which represents approximately 57 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.



**Substantially Completed SRRR Plan implementations <sup>1</sup>**

Dead Run	9/6/2017			Substantially completed; termination certification submitted May 18, 2021.
Gwynns Falls	9/6/2018	2/14/2017	Right of way acquisition	<p>On September 6, 2018, the County certified substantial completion for the implementation of the Gwynns Falls Sewershed SRRR Plan with the exception of 23 structural repairs for which a potential delay was submitted to EPA and MDE. The outstanding structural repairs have no effect on the performance of the collection system.</p> <p>To date, 6 repairs remain outstanding and were completed with the Powder Mill Interceptor Phase 1 project, which achieved functional use on January 26, 2021.</p>
Herring Run	9/6/2018	8/15/2017 3/6/2018	Right of entry acquisition	There are 93 assets (i.e. sewer and manholes) which represents approximately 6 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. Two of these properties have entered the condemnation process. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.
Jones Falls	9/6/2019		Right of entry acquisition	There are 10 assets (i.e. sewer and manholes) which represents approximately 0.6 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.
Orems	9/29/2020	9/7/2021 (Time extension request)	Right of entry acquisition	Design is complete for the Orems Basin 3 Relief Sewer. Contract 21144SX0 was awarded May 25, 2021. A time extension request was submitted on September 7, 2021.
Tributary 26	2/11/2020			Substantially completed; termination certification submitted May 18, 2021.



**Substantially Completed SRRR Plan implementations <sup>1</sup>**

Tributary 27	9/6/2017			Substantially completed; termination certification submitted May 18, 2021.
Tributary 43	2/11/2020			Substantially completed; termination certification submitted May 18, 2021.
Tributary 48	9/6/2017			Substantially completed; termination certification submitted May 18, 2021.
Tributary 78	2/11/2020			Substantially completed; termination certification submitted May 18, 2021.
West Low Level	9/6/2017			Substantially completed

<sup>1</sup> Substantial completion, as defined in Paragraph IV, Item CC of the Consent Decree means, the date, as certified by the Engineer in charge of a construction project, when the construction project or specified part thereof is sufficiently completed, in accordance with the contract documents, such that the project or specified part thereof can be used to accomplish the purposes for which it was intended.

