



HEALTH, SAFETY, ENVIRONMENTAL, PRODUCT STEWARDSHIP AND SUSTAINABILITY

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September 23, 2021

Ms. Irena Rybak
Land Restoration Program
Maryland Department of the Environment
1800 Washington Boulevard, Suite 645
Baltimore, MD 21230-1719

**Subject: Q3 2021 Storm Drain Rehabilitation Schedule
Dundalk Marine Terminal
Baltimore, Maryland**

Dear Ms. Rybak:

Honeywell International Inc. (Honeywell) and the Maryland Port Administration (MPA) are submitting the enclosed updated "Storm Drain Rehabilitation Schedule (SDRS), Dundalk Marine Terminal, Baltimore, Maryland." This update is submitted pursuant to Section III.A of the April 5, 2006, Consent Decree, entered into by the Maryland Department of the Environment (MDE), MPA, and Honeywell.

The attached schedule reflects the status of the remedy implementation and long-term monitoring pursuant to MDE's letter dated July 30, 2012, and replaces the quarterly CMIPP update. The storm drain work performed during this quarter included: punchlist inspections of trunk line manholes, lateral inlets and piping on the 14th and 15th Street storm drains; follow-on inspections of the 12th Street storm drain inlets, manholes and pipes; and continued routine inspections and maintenance of the 12.5th Street, 13th Street, and 13.5th Street storm drains.

Monthly NPDES compliance monitoring was continued for the 12th Street storm drain in the third quarter 2021 with results of hexavalent chromium concentration below the Action Level.

If you have any questions or require additional information, please do not hesitate to contact me at 973-455-2877, or by e-mail at Eric.Christodoulatos@Honeywell.com.

Sincerely,

Eric Christodoulatos
Chromium Remediation Manager

cc: Mr. Steve Johnson/MPA
Mr. Bill Richardson/MPA
Mr. Michael Daneker/Arnold & Porter

Enclosure

Dundalk Marine Terminal Deliverables through September 23, 2021

Document	Date
Q3 2021 Storm Drain Rehabilitation Schedule	23-Sep-21
2020 Surface Cover Repair Summary Report	24-Aug-21
Semiannual Groundwater Monitoring Report, January–June 2021	23-Aug-21
Q2 2021 Storm Drain Rehabilitation Schedule	17-Jun-21
Supplemental Data Report #8, Heave Investigation and Minimization Study	14-May-21
Semiannual Groundwater Monitoring Report, July–December 2020	13-Apr-21
Q1 2021 Storm Drain Rehabilitation Schedule	25-Mar-21
Dundalk Marine Terminal Areas 1501 and 1602 Containment Cap Maintenance (MDE No. 21-SF-0004) [Response to MDE comments on capping plan]	11-Mar-21
Sentinel Well Monitoring Plan for Area 1501/1602	05-Mar-21
Q4 2020 Storm Drain Rehabilitation Schedule	15-Dec-20
Sentinel Well Location Plan for Area 1501/1602	22-Oct-20
Semiannual Groundwater Monitoring Report, January–June 2020	13-Oct-20
Q3 2020 Storm Drain Rehabilitation Schedule	22-Sep-20
Q2 2020 Storm Drain Rehabilitation Schedule	22-Jun-20
Performance Management Program, Priority Storm Drain Inspection and Maintenance Plan	14-Apr-20
Semiannual Groundwater Monitoring Report, July–December 2019	7-Apr-20
12th Street Storm Drain Rehabilitation Construction Completion Report	1-Apr-20
Q1 2020 Storm Drain Rehabilitation Schedule	27-Mar-20
Supplemental Data Report #7, Heave Investigation and Minimization Study	18-Feb-20
Q4 2019 Storm Drain Rehabilitation Schedule	19-Dec-19
Q3 2019 Storm Drain Rehabilitation Schedule	30-Sep-19
Geotechnical and Groundwater Investigation Report	28-Aug-19
2019 Surface Cover System and 14th & 15th Streets Storm Drain Inspection Report	26-Aug-19
Semiannual Groundwater Monitoring Report, January–June 2019	10-Jul-19
12.5th Street Storm Drain Rehabilitation Project Construction Completion Report Addendum	10-Jul-19
Q2 2019 Storm Drain Rehabilitation Schedule	24-Jun-19
13.5th Street Storm Drain Rehabilitation Construction Completion Report Addendum 2	19-Jun-19
Q1 2019 Storm Drain Rehabilitation Schedule	22-Mar-19
Semiannual Groundwater Monitoring Report, July–December 2018	12-Mar-19
Summary Report for 2018 Repair Cycle, Surface Cover System	26-Feb-19
Supplemental Data Report #6, Heave Investigation and Minimization Study	17-Dec-18

Dundalk Marine Terminal Deliverables through September 23, 2021

Document	Date
Q4 2018 Storm Drain Rehabilitation Schedule	17-Dec-18
2018 Surface Cover System and 14th & 15th Streets Storm Drain Inspection Report	11-Nov-18
Semiannual Groundwater-Monitoring Report, January—June 2018	5-Nov-18
Q3 2018 Storm Drain Rehabilitation Schedule	27-Sep-18
Summary Report for 2017 Repair Cycle, Surface Cover System	11-Sep-18
Geotechnical and Groundwater Investigation Work Plan	29-Jun-18
Q2 2018 Storm Drain Rehabilitation Schedule	25-Jun-18
Semiannual Groundwater-Monitoring Report, July–December 2017	28-Mar-18
Q1 2018 Storm Drain Rehabilitation Schedule	28-Mar-18
Area 1501/1602 Baseline Supplemental Site Investigation Report	19-Jan-18
Q4 2017 Storm Drain Rehabilitation Schedule	18-Dec-17
Semiannual Groundwater Monitoring, Report, January–June 2017	31-Oct-17
Supplemental Data Report #5, Heave Investigation and Minimization Study	27-Oct-17
Q3 2017 Storm Drain Rehabilitation Schedule	26-Sep-17
2017 Surface Cover System and 14th & 15th Streets Storm Drain Inspection Report	20-Sep-17
Q2 2017 Storm Drain Rehabilitation Schedule	21-Jun-17
13.5th Street Storm Drain Rehabilitation Construction Completion Report Addendum	5-Jun-17
12.5th Street Storm Drain Rehabilitation Project Construction Completion Report	5-Jun-17
Semiannual Groundwater Monitoring Report, July–December 2016	23-Mar-17
Summary Report for 2016 Repair Cycle, Surface Cover System	23-Mar-17
Q1 2017 Storm Drain Rehabilitation Schedule	23-Mar-17
Construction Completion Report, Area 1501/1602 H Street Grout Injection	7-Mar-17
Construction Completion Report, Area 1501/1602 Erosion Control Improvements	7-Mar-17
Q4 2016 Storm Drain Rehabilitation Schedule	14-Dec-16
2016 Surface Cover System and 14th & 15th Streets Storm Drain Inspection Report	6-Dec-16
Semiannual Groundwater Monitoring, Report, January–June 2016	9-Nov-16
Supplemental Data Report #4, Heave Investigation and Minimization Study	8-Nov-16
Q3 2016 Storm Drain Rehabilitation Schedule	29-Sep-16
Construction Completion Report, Area 1501/1602 Interceptor Trench	13-Sep-16
Construction Completion Report, Area 1501/1602 Shoreline Protection	13-Jul-16
Q2 2016 Storm Drain Rehabilitation Schedule	27-Jun-16
Q1 2016 Storm Drain Rehabilitation Schedule	29-Mar-16

Dundalk Marine Terminal Deliverables through September 23, 2021

Document	Date
Construction Completion Report, Area 1501/1602 Water Line Abandonment	24-Mar-16
Construction Completion Report, Sound Wall Repairs, Area 1602/1702	24-Mar-16
Summary Report for 2015 Repair Cycle, Surface Cover System	24-Mar-16
Semiannual Groundwater-Monitoring Report, July–December 2015	3-Mar-16
Q4 2015 Storm Drain Rehabilitation Schedule	22-Dec-15
Area 1501/1602 Cross-Sections (email submission)	18-Nov-15
Q3 2015 Storm Drain Rehabilitation Schedule	23-Sep-15
Semiannual Groundwater-Monitoring Report, January–June 2015	11-Sep-15
Supplemental Site Investigation Work Plan, Area 1501/1602	31-Aug-15
2015 Surface Cover System and 14th and 15th Street Storm Drain Inspection Report	12-Aug-15
Area 1501/1602 Cross-Sections	20-Jul-15
Supplemental Data Report, Heave Investigation and Minimization Study	29-Jun-15
Q2 2015 Storm Drain Rehabilitation Schedule	24-Jun-15
Additional Sampling Locations for Semiannual Groundwater Monitoring	8-Apr-15
2014 Surface Cover Repair Summary Report	25-Mar-15
Storm Drain Utility Comparison to COPR and Groundwater Elevations	20-Mar-15
Semiannual Groundwater-Monitoring Report, July–December 2014	3-Mar-15
Q4 2014 Storm Drain Rehabilitation Schedule	24-Dec-14
Q3 2014 Storm Drain Rehabilitation Schedule	29-Sep-14
Summary Report for 2013 Repair Cycle, Surface Cover System	13-Aug-14
Semiannual Groundwater-Monitoring Report, January–June 2014	13-Aug-14
Q2 2014 Storm Drain Rehabilitation Schedule	26-Jun-14
Supplemental Data Report, Heave Investigation and Minimization Study	1-May-14
Q1 2014 Storm Drain Rehabilitation Schedule	24-Mar-14
MDE Request for Utility Maps	24-Feb-14
13.5th Street Storm Drain Rehabilitation Project Construction Completion Report	11-Feb-14
Q4 2013 Storm Drain Rehabilitation Schedule	6-Jan-14
Q3 2013 Storm Drain Rehabilitation Schedule	27-Sep-13
2013 Surface Cover System and 14th & 15th Streets Storm Drain Inspection Report	6-Aug-13
Semiannual Groundwater-Monitoring Report, January–June 2013	6-Aug-13
Q2 2013 Storm Drain Rehabilitation Schedule	28-Jun-13
13th Street Storm Drain Rehabilitation Project Construction Completion Report	17-Jun-13

Dundalk Marine Terminal Deliverables through September 23, 2021

Document	Date
Supplemental Data Report, Heave Investigation and Minimization Study	15-Jun-13
2012 Surface Cover Repair Summary Report	8-May-13
Q1 2013 Storm Drain Rehabilitation Schedule	4-Apr-13
Semiannual Groundwater-Monitoring Report, July–December 2012	21-Feb-13
Q4 2012 Storm Drain Rehabilitation Schedule	27-Dec-12
2012 Surface Cover System and 14th & 15th Streets Storm Drain Inspection Report	5-Dec-12
Conceptual Groundwater-Monitoring Plan	7-Nov-12
Summary Report for 2011 Repair Cycle, Surface Cover System	5-Nov-12
Q3 2012 Corrective Measures Implementation Program Plan Schedule Update	27-Sep-12
Semiannual Groundwater-Monitoring Report, January–June 2012	5-Jul-12

Third Quarter 2021 Storm Drain Rehabilitation Schedule

Task	When Task Starts/Predecessor	Duration* (Calendar Days)	Status/Comments/Assumptions
13th Street Storm Drain (Vault Completed 2008; Pipe Lining Completed 2009; Inlet/Manhole Lining Completed 2014)			
2008–2009 Storm Drain Rehabilitation Program (Vault)			
Rehabilitation of storm drain: construction of tidal exclusion vault, installation of CIPP	Additional conditions assessment and design	Completed	Completed construction of tidal exclusion vault, lining of 1,200 LF of pipe in Q4 2009.
2011–2012 Storm Drain Rehabilitation Program (Storm Drain, Manholes/Inlets)			
Rehabilitation of storm drain: lining of inlets/manhole with HDPE	Additional conditions assessment and design	Completed	Completed lining of 5 manholes and 9 inlets in 2011.
2013 Storm Drain Rehabilitation Program (Inlets)			
Rehabilitation of storm drain: lining of inlets with HDPE	Additional conditions assessment and design	Completed	Completed lining of 5 inlets in 2014. Submitted construction completion report to MDE on June 13, 2013.
2017 Storm Drain Rehabilitation Program (Maintenance)			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Completed inspection of inlets during Q2/Q3 2017. Submitted addendum completion report to MDE Q3 2017.
2018/19 Storm Drain Rehabilitation Program (Maintenance)			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining.	Completed	Perform inspection and maintenance, as required.
2020 Storm Drain Rehabilitation Program (Maintenance)			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining.	Completed	Perform inspection and maintenance, as required.
2021 Storm Drain Rehabilitation Program (Maintenance)			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining.	Ongoing	Perform inspection and maintenance, as required.

Third Quarter 2021 Storm Drain Rehabilitation Schedule

Task	When Task Starts/Predecessor	Duration* (Calendar Days)	Status/Comments/Assumptions
12.5th Street Storm Drain (Start Date: March 2015, Completed: October 2015)			
<i>2015 Storm Drain Rehabilitation Program</i>			
Rehabilitate vaults, inlets, manholes and drain lines	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Point repair completed Q2 2015; lining of drain lines, inlets, and manholes completed during Q4 2015. Submitted construction completion report to MDE on June 5, 2017.
<i>2017/18 Storm Drain Rehabilitation Program</i>			
Rehabilitate vaults, inlets, manholes and drain lines	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Completed inspection and maintenance of three inlets and one manhole during Q4 2017. The MPA began quarterly NPDES monitoring for Outfall 002 July 1, 2018. Submitted addendum completion report to MDE Q3 2019.
<i>2019 Storm Drain Rehabilitation Program</i>			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Quarterly NPDES monitoring for Outfall 002.
<i>2020 Storm Drain Rehabilitation Program</i>			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Removed the drain from the NPDES permit and transfer the drain to the MS4 permit effective October 1, 2020.
<i>2021 Storm Drain Rehabilitation Program (Maintenance)</i>			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining.	Ongoing	Perform inspection and maintenance, as required.

Third Quarter 2021 Storm Drain Rehabilitation Schedule

Task	When Task Starts/Predecessor	Duration* (Calendar Days)	Status/Comments/Assumptions
13.5th Street Storm Drain (Vault Completed 2010; Initial Pipe Replacement Completed 2011; Additional Pipe Replacement and Inlet Lining Completed 2016)			
2010 Storm Drain Rehabilitation Program (Pipe Replacement, Rehabilitate Inlets)			
Rehabilitation of storm drain: construction of tidal exclusion vault, pipe replacement and sealing of inlets/manhole	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Completed construction of tidal exclusion vault, sealing of 3 inlets and 1 manhole, and replacement of 325 LF of pipe in Q4 2011. Submitted construction completion report to MDE on February 11, 2014.
2015 Storm Drain Rehabilitation Program (Pipe Replacement and Inlets)			
Rehabilitation of storm drain: pipe replacement and lining of inlets/manholes	Additional conditions assessment and design	Completed	Completed lining of 4 inlets, 1 manhole and replacement of 290 LF of pipe in Q1 2016. Submitted addendum completion report to MDE on June 5, 2017.
2017/18 Storm Drain Rehabilitation Program (Maintenance)			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Completed inspection and maintenance of three inlets and one manhole. The MPA began quarterly NPDES monitoring for Outfall 004 July 1, 2018. Submitted addendum completion report to MDE in Q2 2019.
2019 Storm Drain Rehabilitation Program (Maintenance)			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Quarterly NPDES monitoring for Outfall 004.
2020 Storm Drain Rehabilitation Program (Maintenance)			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Removed the drain from the NPDES permit and transfer the drain to the MS4 permit effective October 1, 2020.
2021 Storm Drain Rehabilitation Program (Maintenance)			
Storm drain inspection and maintenance	Storm drain inspection and maintenance commenced with completion of drain lining.	Ongoing	Perform inspection and maintenance, as required.

Third Quarter 2021 Storm Drain Rehabilitation Schedule

Task	When Task Starts/Predecessor	Duration* (Calendar Days)	Status/Comments/Assumptions
<i>12th Street Storm Drain (Start Date: January 2015; Laterals and Inlets Completed 2016; Trunk Line and Manholes Completed 2018; End Date: December 2019)</i>			
<i>2015 Storm Drain Rehabilitation Program (Laterals and Inlets)</i>			
Rehabilitation of inlets and storm drain laterals	Additional conditions assessment and design	Completed	Completed lining of 14 inlets during Q4 2015. Inlets and manholes within the upper sections of the drain were lined in Q4 2016. Submitted notification to MDE of completion of rehabilitation in Q4 2016.
<i>2016 Storm Drain Rehabilitation Program (Trunk Line)</i>			
Rehabilitation of trunk line, trunk line manholes. Abandonment of trunk line upstream of MH-288	Additional conditions assessment and design	Completed	Lining of 1,900 LF of trunk line completed Q4 2016. Abandonment of trunk line section completed in Q3 2016. Lining of 5 trunk line manholes started Q1 2017. Submitted notification to MDE of completion of rehabilitation in Q1 2017.
<i>2017 Storm Drain Rehabilitation Program (Punchlist)</i>			
Storm drain inspection and punchlist repairs	Storm drain inspection and maintenance commenced with completion of drain lining	Completed	Completed inspection and maintenance; repairs performed on two inlets during Q3 2017.
<i>2018 Storm Drain Rehabilitation Program (Punchlist)</i>			
Storm drain inspection and punchlist repairs	Storm drain inspection and punchlist repairs	Completed	Completed inspections and maintenance repairs as required on inlets and manholes.
<i>2019 Storm Drain Rehabilitation Program (Punchlist)</i>			
Storm drain inspection and punchlist repairs	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Completed	Performed inspections and punchlist repairs of inlets, manholes and tidal exclusion vault, as needed. Replaced 250 LF section of CIPP liner between MH-288 and MH-289 in Q4 2019. Completed installation of new transition strips and mechanical seals throughout storm drain, as needed.
Submit draft Construction Completion Report to MDE	Completion of draft report	M	Milestone task, submitted draft construction completion report to MDE on April 1, 2020.

Third Quarter 2021 Storm Drain Rehabilitation Schedule

Task	When Task Starts/Predecessor	Duration* (Calendar Days)	Status/Comments/Assumptions
2020 Storm Drain Rehabilitation Program (Punchlist)			
Storm drain inspection and punchlist repairs	Performance monitoring	Completed	Perform inspections, and ongoing punchlist repairs of inlets, manholes and outfall, as needed. The MPA began monthly NPDES monitoring for Outfall 012 January 1, 2020 and provided notification to MDE regarding moving to quarterly monitoring effective Q3 2020.
2021 Storm Drain Rehabilitation Program (Punchlist)			
Storm drain inspection and punchlist repairs	Performance monitoring	Ongoing	Q1 wet weather sampling on February 28, 2021 had exceedance of the NPDES Action Limit due to overflow from an electrical conduit. MPA's request to MDE to continue quarterly monitoring was denied so monthly resumed. The July-September 2021 wet weather samples were collected and hexavalent chromium was detected below the NPDES Action Limit.
14th Street Storm Drain start Date: August 2013; Laterals and Inlet Lining: 2015; Trunk Lining and Manholes: 2018; End Date: December 2022)			
2014/15 Storm Drain Rehabilitation Program (Laterals, Inlets and Manholes – Completed 2015)			
Rehabilitate/replace inlets and manholes, and drain lines	Additional conditions assessment and design	Completed	Completed lining of 10 inlets and 4 manholes; 675 LF of drain lines lined with CIPP UV; 1 inlet replaced in Q4 2014. Completed 3 remaining manholes during Q4 2015. Submitted notification to MDE of completion of rehabilitation in Q4 2015.
2017 Storm Drain Rehabilitation Program (Trunk Line and Manhole Lining – Completed 2018)			
Rehabilitate storm drain trunk line, line storm drain manholes and inlets	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Completed	Completed lining 1,200 LF of trunk line with CIPP and lining of 10 inlets. Submitted notification to MDE of completion of rehabilitation in Q4 2017.

Third Quarter 2021 Storm Drain Rehabilitation Schedule

Task	When Task Starts/Predecessor	Duration* (Calendar Days)	Status/Comments/Assumptions
2018 Storm Drain Rehabilitation Program			
Storm drain inspection and punchlist repairs	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Completed	Completed lining 4 inlets connected to the trunk line. Performed inspections and maintenance of inlets and manholes and one outfall. Submitted notification to MDE of completion of rehabilitation in Q3 2018.
2019 Storm Drain Rehabilitation Program			
Storm drain inspection and punchlist repairs	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Completed	Perform warranty inspections, and ongoing punchlist repairs of inlets, manholes and outfall, as needed.
2020 Storm Drain Rehabilitation Program			
Storm drain inspection and punchlist repairs	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Completed	Perform warranty inspections, and ongoing punchlist repairs of inlets, manholes and outfall, as needed.
2021 Storm Drain Rehabilitation Program			
Storm drain inspection and punchlist repairs	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Ongoing	Perform warranty inspections, and ongoing punchlist repairs of inlets, manholes and outfall, as needed.
Submit draft Construction Completion Report to MDE	Completion of draft report	M	Milestone task; to be submitted Q2 2022
15th Street Storm Drain (Start Date: March 2009; Laterals, Inlets and Manhole Lining: 2010-2016; Trunk Lining: 2018/19; Manhole Lining: 2019/20; End Date: 2022)			
2009 Storm Drain Rehabilitation Program (Completed November 2010)			
Rehabilitate/replace inlets and manholes, and storm drain lines	Additional conditions assessment and design	Completed	Completed: Lining 6,186 LF of pipe; replacement of 72 LF of pipe; installation of 2 new manholes completed 2010; and installation of 200 LF of liner plate on B1 line. Submitted notification to MDE of completion of rehabilitation in Q4 2010.

Third Quarter 2021 Storm Drain Rehabilitation Schedule

Task	When Task Starts/Predecessor	Duration* (Calendar Days)	Status/Comments/Assumptions
2013 Storm Drain Rehabilitation Program (Completed February 2014)			
Rehabilitate/replace inlets and manholes, and storm drain lines	Additional conditions assessment and design	Completed	Completed: Lining of 12 inlets with HDPE; replacement of 1 inlet and 1 manhole. Submitted notification to MDE of completion of rehabilitation in Q4 2013.
2014 Storm Drain Rehabilitation Program (Completed November 2014)			
Rehabilitate/replace inlets and manholes, and storm drain lines	Additional conditions assessment and design	Completed	Completed: Replacement of MH-332 and MH-327; 35 inlets/ manholes lined with HDPE; 1,700 LF of pipe lined with CIPP UV lining. Submitted notification to MDE of completion of rehabilitation in Q4 2014.
2016 Storm Drain Rehabilitation Program (G Line)			
Rehabilitate inlets and storm drain manhole in building 1702	Additional conditions assessment and design	Completed	Completed: Abandonment of buried manhole and completed lining through the manhole. Submitted notification to MDE of completion of rehabilitation in Q4 2016.
2018 Storm Drain Rehabilitation Program (North Trunk Line)			
Rehabilitate north trunk line and manholes	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Completed	Completed: Manhole demolition of 2 manhole chimneys, installation of 2,100 linear feet of large diameter CIPP in the north trunk line; started lining of 4 manholes. Submitted notification to MDE of completion of rehabilitation in Q1 2019.

Third Quarter 2021 Storm Drain Rehabilitation Schedule

Task	When Task Starts/Predecessor	Duration* (Calendar Days)	Status/Comments/Assumptions
<i>2019 Storm Drain Rehabilitation Program (South Trunk Line)</i>			
Rehabilitate south trunk line and manholes	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Completed	Completed: Lining of 1,500 linear feet of large diameter CIPP in the south trunk line; manhole demolition of 2 manhole chimneys; started lining of 4 manholes. Submitted notification to MDE of completion of rehabilitation in Q2 2019.
<i>2020 Storm Drain Rehabilitation Program</i>			
Storm drain inspection and punchlist repairs	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Completed	Perform inspections and repairs of storm drain trunk lines and laterals, inlets, as needed. Continue lining of north and south manholes. Continue punchlist inspections and repairs.
<i>2021 Storm Drain Rehabilitation Program</i>			
Storm drain inspection and punchlist repairs	Storm drain inspection and punchlist repairs, commenced with completion of drain lining	Ongoing	Perform inspections and repairs of storm drain trunk lines and laterals, inlets, as needed. Complete lining of north and south manholes. Continue punchlist inspections and repairs.
Submit draft Construction Completion Report to MDE	Completion of draft report	M	Milestone task, to be submitted Q2 2022.

* Task durations could vary based on inspection results and severity and scope of rehabilitation. M = milestone task; TBD = to be determined; NA = not applicable