Honeywell

HEALTH, SAFETY, ENVIRONMENTAL, PRODUCT STEWARDSHIP AND SUSTAINABILITY
115 Tabor Road, 4-D4
Morris Plains, New Jersey 07950
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January 29, 2020

Mr. Edward Hammerberg
Technical Specialist/RCE Supervisor
Waste Division and Utilization Program
Maryland Department of the Environment
1800 Washington Boulevard, Suite 645
Baltimore, MD 21230

Re: Transmittal of Quarterly Site Progress Report, Fourth Quarter 2019, 2000 Race Street Site, Baltimore, Maryland

Dear Mr. Hammerberg:

Please find attached the Fourth Quarter 2019 Site Progress Report for the 2000 Race Street Site, Baltimore, Maryland. This document is provided on behalf of Honeywell and the Mayor and City Council of Baltimore pursuant to the General Inspection Requirements of Section II.C of the Controlled Hazardous Substance (CHS) Post-Closure permit issued by the Maryland Department of the Environment (MDE) for the 2000 Race Street Site Consent Order, effective September 27, 2019.

If you have any questions or require additional information, please do not hesitate to contact me at 973-455-3302, or by e-mail at Maria.Kaouris@Honeywell.com.

Sincerely,

Maria Kaouris
Remediation Manager

Attachment

cc: Mr. Ed Dexter—MDE
Mr. Al Simpkins—MDE
Ms. Dawn Lettman—City of Baltimore
Mr. Ravic Miller—City of Baltimore
Mr. George Pfeiffer —Honeywell
Ms. Jessica Telano—Honeywell

FOURTH QUARTER 2019
SITE PROGRESS REPORT

2000 RACE STREET
BALTIMORE, MARYLAND

Prepared for

Honeywell

115 Tabor Road
Morris Plains, New Jersey 07950

and

Mayor and City Council of Baltimore, Maryland

Prepared by

JACOBS®

Jacobs Engineering
2411 Dulles Corner Park Suite #500
Herndon, VA 20171

JANUARY 2020

Contents

Appendixes

1. Introduction

Honeywell International Inc. (Honeywell) and the Mayor and City Council of Baltimore City (City) are submitting this Quarterly Site Progress Report for the 2000 Race Street Site (Site) pursuant to the General Inspection Requirements of Section II.C of the Controlled Hazardous Substance (CHS) Post-Closure permit issued by the Maryland Department of the Environment (MDE) for the 2000 Race Street Site Consent Order, effective September 27, 2019. Quarterly Site Progress Reports will be submitted to MDE to include the following information:

- Work completed, and documents submitted to MDE in the preceding quarter;
- A schedule and submittals for the upcoming quarter; and
- Any delays, modifications, or changes anticipated in the upcoming quarter.

This report covers Site-related activities conducted under the Consent Order during the third quarter of 2019, from October 1, 2019, through December 31, 2019.

The Site is located at 2000 Race Street, in Baltimore, Maryland (ZIP Code 21230). It occupies approximately 10.3 acres and is bounded on the north by the Baltimore Gas and Electric Spring Gardens facility, on the south by Swann Park, on the east by Race Street, and on the west by the Middle Branch of the Patapsco River. In addition, two elevated spans of Interstate 95 (I-95) oriented from east to west, overlie the Site on the northern half of the property. A chain-link security fence is present at the perimeter of the Site. The Site has no onsite building structures and is currently vacant.

Controlled hazardous substances are contained on the Site and covered with an engineered cap consisting of the following materials from top to bottom: asphalt, gravel base, and compacted clay. Cap maintenance is ongoing. Additional information regarding the Site is provided in several documents, including the May 23, 2007, Consent Order; the *Site Characterization Work Plan*, dated September 2007; the *Site Characterization Report*, dated September 2009; the *Near Shore Investigation Report*, dated December 2009; the *Interim Remedial Measures Assessment Investigation and Pilot Test Report*, dated July 2012; the *Supplemental Site Characterization Report (former arsenic shed area), dated February 2018; Interim Remedial Measures Assessment (IRMA) Report, dated August 2018; the Corrective Measures Alternatives Analysis Report, date August 2018; and the Post-Closure Controlled Hazardous Substance (CHS) Permit issued by MDE, dated September 27, 2019; and*

2. Quarter in Review

Site-related activities performed during the fourth quarter of 2019 include the following:

- October 1: MDTA bridge inspection;
- October 1-30: Pre-cap installation site preparation (e.g., vegetation clearing/grubbing, asphalt patching and milling, asphalt fabric installation, fence removal, well/inclinometer modifications);
- October 3: Project Coordinator call with MDE;
- October 10: Submitted First Half 2019, Semiannual Bridge Monitoring Data report to MDE;
- October 24: Monthly site status inspection (Appendix A);
- October 25: Submitted the Third Quarter 2019 Site Progress Report to MDE;
- November 1-30: cap leveling, asphalt paving, and surveying;
- November 6: Project Coordinator call with MDE;
- November 21: Monthly site status inspection (Appendix A);
- December 1-31: Asphalt cap leveling, paving, and surveying;
- December 5: Project Coordinator call with MDE; and

- December 19: Monthly site status inspection (Appendix A).

3. Upcoming Work and Submittals during the First Quarter of 2020

The following activities and submittals are anticipated to occur in the upcoming quarter:

- Conduct monthly Site status inspections and participate in monthly Site status calls with MDE (January, February , and March);
- Submit the Fourth Quarter 2019 Site Progress report to MDE;
- Commence PRB performance monitoring and Site-Wide groundwater monitoring program;
- Prepare Cap Construction Completion Report (CCR) during Q1 2020;
- Evaluate near-shore sediment data and develop focused remedial approach during Q1 2020;
- Propose potential contaminants of concern for the 5-year groundwater monitoring review;
- Submit groundwater well installation completion details to MDE;
- Perform quarterly Semi-annual Shape Accel Array (SAA)/inclinometer readings; and
- Completed cap punch list items, fence installation, and demobilization.

4. Schedule

A schedule of Consent Order activities anticipated during the first quarter of 2020 is provided below.

Milestone	Anticipated Date
January 2020	
Perform SAA/inclinometer readings	TBD
Perform monthly site status inspection	1-23-20
Submit Q4 2019 Site Progress report	1-30-20
Perform PRB & Groundwater Monitoring	TBD
February 2020	
Perform monthly site status inspection	TBD
Submit Second Half 2019 Semi-annual Bridge Monitoring Data Report	TBD
Complete cap installation punch list items	TBD
Perform PRB & Groundwater Monitoring	TBD
March 2020	
Perform monthly Site Status inspection	TBD
Perform PRB & Groundwater Monitoring	TBD

Appendix A
Site Inspection Reports

2000 Race Street
Monthly Site Inspection Checklist

Inspector:	Bill Morris	Date of Inspection:	24-Oct-19
Title:	Environmental Engineer	Date of Last Inspection:	26-Sep-19
Organization:	CH2M HILL	Weather:	Sunny, warm

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
1. General				
Inspect site for presence of surface debris. Identify type, approximate volume of debris, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect site for presence of vegetation. Identify estimated amount and location of vegetation via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
2. Interstate 95 Footings and Joints				
Inspect around pier footings for settlement. Identify settlement off-set from grade and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	1: Localized asphalt settlement around pier footer	None	NA	Area will be repaired during installation of new enhanced asphalt cap.
	None	None	NA	NA
3. Engineered Cap				
Inspect cap for alligator cracking. Identify estimated area of cracking and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect cap for holes. Identify number of holes, width and depth, and location via description of on Site Plan (attach to Monthly Site Inspection Checklist)	3: Groundhog burrow at edge of asphalt	None	NA	Area will be repaired during installation of new enhanced asphalt cap.
Inspect cap for cracks less than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect cap for cracks greater than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect cap for any signs of ponding of water	None	None	NA	NA
Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA
Identify any other observations related to the condition of the cap and potential for cap damage	None	None	NA	NA
4. Fence				

2000 Race Street
Monthly Site Inspection Checklist

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine if there is any erosion compromising the integrity of the fence	None	None	NA	NA
Inspect fence to determine if barbed wire is in good condition	None	None	NA	NA
Inspect gates, chains, and locks for damage	None	None	NA	NA
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	None	None	NA	NA
Inspect fence to determine if there is any burrowing beneath fence	None	None	NA	NA
Identify any other observations related to the condition of the fence and potential for fence damage (e.g., points of weakness, corrosion)	None	None	NA	NA
5. Aboveground Stormwater Conveyance System				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
6. Vandalism				
Inspect site for any vandalism including any dumped material on-site and damage to monitoring wells	None	None	NA	NA
Identify any other observations related to vandalism on the site	None	None	NA	NA
7. Signage				
Inspect warning signs on exterior perimeter of fence to determine condition and readability. Identify number of signs removed/damaged/unreadable and locations via description or Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
8. Miscellaneous Items				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Al Simkins of MDE on site for the monthly inspection. Paving crews from Flanigan & Sons were on site installing enhanced asphalt cap.			
Other Comments/Observations?	2: Erosion at edge of stormwater let down on slope. Addition stone will be placed in the storm water culvert as an erosion control measure as part of the new enhanced cap installation project.			

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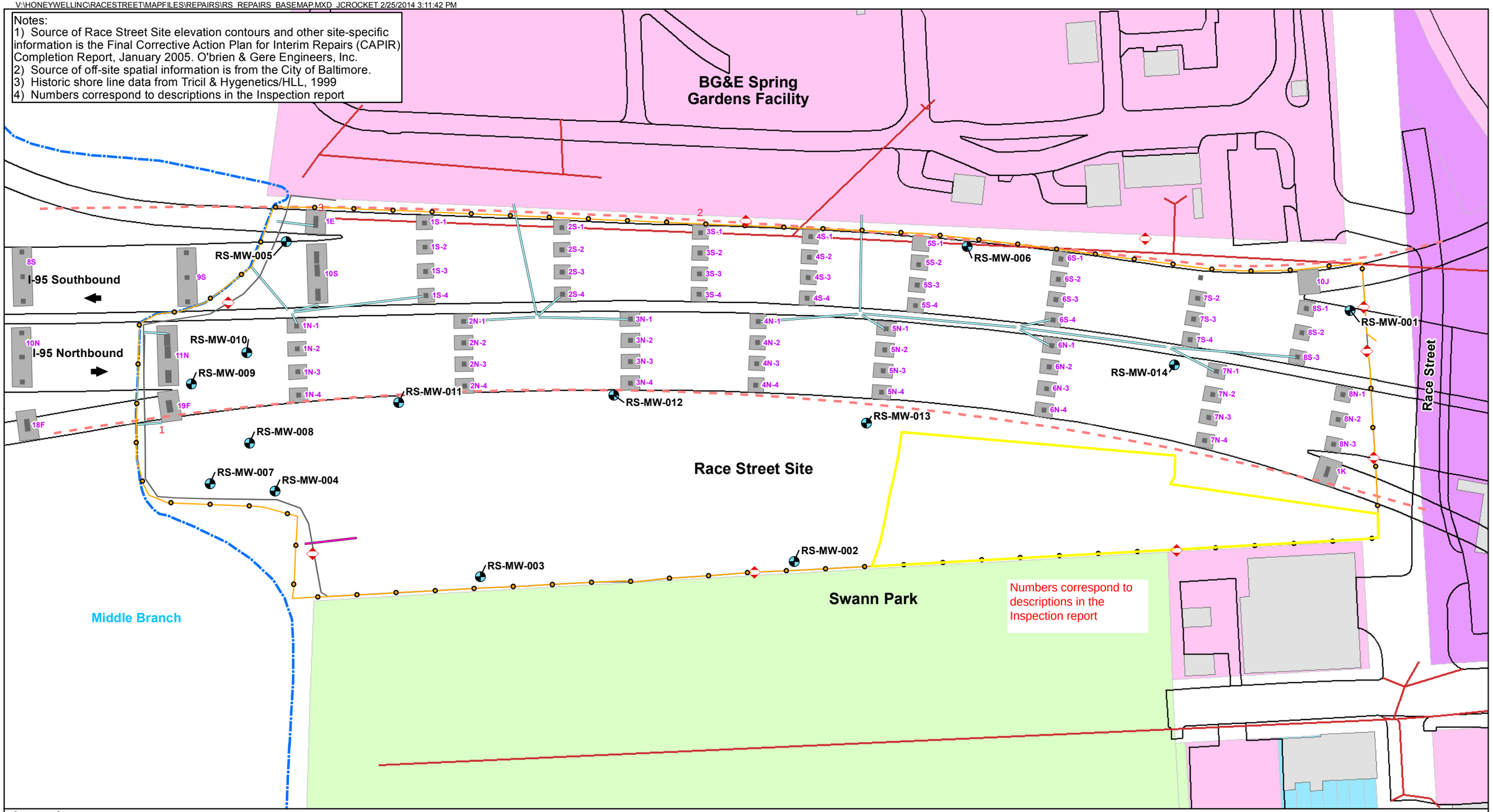
Notes:
1) Source of Race Street Site elevation contours and other site-specific information is the Final Corrective Action Plan for Interim Repairs (CAPIR) Completion Report, January 2005. O'brien & Gere Engineers, Inc.
2) Source of off-site spatial information is from the City of Baltimore.
3) Historic shore line data from Tricil & Hygenetics/HLL, 1999
4) Numbers correspond to descriptions in the Inspection report



Legend

- WarningSigns
- Monitoring Well Locations
- Edge of Pavement
- Approximate Limits of I-95 Former Below Ground Stormwater System (Abandoned)
- Below Ground Stormwater System
- Existing Shoreline
- Fence/Approximate Property Boundary and Limit of Engineered Cap
- Fence Installed on Jersey Barriers
- Baltimore Stormwater Pipe
- Commercial
- Exempt Commercial
- Industrial
- Residential
- Buildings
- Concrete Column
- Concrete Footer

N
W E
S

0 50 100 Feet
1 inch = 100 feet

Monthly Inspection Map
Race Street Site
Baltimore, MD

October 24, 2019

CH2MHILL

2000 Race Street
Monthly Site Inspection Checklist

Inspector:	Bill Morris	Date of Inspection:	21-Nov-19
Title:	Environmental Engineer	Date of Last Inspection:	24-Oct-19
Organization:	CH2M HILL	Weather:	Sunny, cool

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
1. General				
Inspect site for presence of surface debris. Identify type, approximate volume of debris, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect site for presence of vegetation. Identify estimated amount and location of vegetation via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
2. Interstate 95 Footings and Joints				
Inspect around pier footings for settlement. Identify settlement off-set from grade and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	1: Localized asphalt settlement around pier footer	None	NA	Area will be repaired during installation of new enhanced asphalt cap.
	None	None	NA	NA
3. Engineered Cap				
Inspect cap for alligator cracking. Identify estimated area of cracking and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect cap for holes. Identify number of holes, width and depth, and location via description of on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
Inspect cap for cracks less than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect cap for cracks greater than 0.5 inches wide. Note number of cracks. Identify location of cracks via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect cap for any signs of ponding of water	None	None	NA	NA
Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA
Identify any other observations related to the condition of the cap and potential for cap damage	None	None	NA	NA
4. Fence				

2000 Race Street
Monthly Site Inspection Checklist

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine if there is any erosion compromising the integrity of the fence	None	None	NA	NA
Inspect fence to determine if barbed wire is in good condition	None	None	NA	NA
Inspect gates, chains, and locks for damage	None	None	NA	NA
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	None	None	NA	NA
Inspect fence to determine if there is any burrowing beneath fence	None	None	NA	NA
Identify any other observations related to the condition of the fence and potential for fence damage (e.g., points of weakness, corrosion)	None	None	NA	NA
5. Aboveground Stormwater Conveyance System				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
6. Vandalism				
Inspect site for any vandalism including any dumped material on-site and damage to monitoring wells	None	None	NA	NA
Identify any other observations related to vandalism on the site	None	None	NA	NA
7. Signage				
Inspect warning signs on exterior perimeter of fence to determine condition and readability. Identify number of signs removed/damaged/unreadable and locations via description or Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
8. Miscellaneous Items				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Al Simkins of MDE and Ravic Miller with the City of Baltimore on site for the monthly inspection. Crews from Flanigan on site constructing enhanced cap.			
Other Comments/Observations?	2: Erosion at edge of stormwater let down on slope. Addition stone will be placed in the storm water culvert as an erosion control measure as part of the new enhanced cap installation project.			

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BG&E Spring Gardens Facility

I-95 Southbound

I-95 Northbound

RS-MW-005

RS-MW-006

RS-MW-001

RS-MW-010

RS-MW-009

RS-MW-011

RS-MW-012

RS-MW-013

RS-MW-014

RS-MW-008

RS-MW-007

RS-MW-004

RS-MW-003

RS-MW-002

Race Street

Race Street Site

Swann Park

Middle Branch

Numbers correspond to descriptions in the Inspection report

Legend

- WarningSigns
- Monitoring Well Locations
- Edge of Pavement
- Approximate Limits of I-95 Former Below Ground Stormwater System (Abandoned)
- Below Ground Stormwater System
- Existing Shoreline
- Fence/Approximate Property Boundary and Limit of Engineered Cap
- Fence Installed on Jersey Barriers
- Baltimore Stormwater Pipe
- Commercial
- Exempt Commercial
- Industrial
- Residential
- Buildings
- Concrete Column
- Concrete Footer

N W E S

0 50 100 Feet

1 inch = 100 feet

Monthly Inspection Map
Race Street Site
Baltimore, MD

November 21, 2019

CH2MHILL

2000 Race Street
Monthly Site Inspection Checklist

Inspector:	Bill Morris	Date of Inspection:	19-Dec-19
Title:	Environmental Engineer	Date of Last Inspection:	21-Nov-19
Organization:	CH2M HILL	Weather:	Sunny, cold

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
1. General				
Inspect site for presence of surface debris. Identify type, approximate volume of debris, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect site for presence of vegetation. Identify estimated amount and location of vegetation via description or on Site Plan (attach to Monthly Site Inspection Checklist)	None	None	NA	NA
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Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA
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2000 Race Street
Monthly Site Inspection Checklist

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RS-MW-007

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Race Street Site

Swann Park

Middle Branch

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Legend

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N W E S

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Monthly Inspection Map
Race Street Site
Baltimore, MD

December 19, 2019

CH2MHILL