



# Second Quarter 2017 Race Street Quarterly Site Progress Report, 2000 Race Street, Baltimore, Maryland

*Prepared for*

Honeywell International Inc.

Mayor and City Council of Baltimore, Maryland

July 2017



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# Second Quarter 2017 Race Street Quarterly Site Progress Report, 2000 Race Street, Baltimore, Maryland

## 1. Introduction

Honeywell International Inc. (Honeywell) and the Mayor and City Council of Baltimore (City) are submitting this Quarterly Site Progress Report for the 2000 Race Street Site (Site) pursuant to the May 23, 2007, Administrative Consent Order (Consent Order) between the Maryland Department of the Environment (MDE), Honeywell, and the City. Quarterly Site Progress Reports will be submitted to MDE for the duration of the Consent Order. As specified within Section III.F of the Consent Order, the reports will identify 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 second quarter of 2017, from April 1, 2017, through June 30, 2017.

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; and the *Interim Remedial Measures Assessment Investigation and Pilot Test Report*, dated July 2012.

## 2. Quarter in Review

Site-related activities performed during the second quarter of 2017 include the following:

- April 20: Site status call with MDE;
- April 27: Monthly Site status inspection (Appendix A);
- April 30: First Quarter 2017 Site Status Report submitted to MDE;
- May 9: Final walk through inspection following MDTA demobilization of bridge maintenance work;
- May 11: Permeable Reactive Barrier–Ferrous Sulfide Treatability Study Phase II Test Plan submitted to MDE;
- May 12: Floodplain Review Requirements for Installation of a Permeable Reactive Barrier submitted to the City of Baltimore;

- May 12: Critical Area Review for Installation of a Permeable Reactive Barrier submitted to the City of Baltimore;
- May 31: Site status call with MDE;
- June 6: Semi-annual Bridge and Monitoring Data Report, July 1 to December 31, 2016, submitted to MDE;
- June 6: Erosion and Sediment Control (ESC) Plan for Installation of the Permeable Reactive Barrier submitted to the City of Baltimore;
- June 15: Bridge Monitoring instrumentation maintenance site visit;
- June 22: Monthly site status inspection (Appendix A);
- June 27: Site status call with MDE;
- June 30: Building Permit Application for construction of the permeable reactive barrier submitted to the City of Baltimore; and
- June 30: Seep Remediation Design Drawings submitted to MDE.

Maintenance work on the I-95 Bridge was completed during the second quarter.

### 3. Upcoming Work and Submittals during the Third Quarter of 2017

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 (July, August, and September);
- Submit the Second Quarter 2017 Site Status report;
- Perform quarterly SAA/inclinometer readings;
- At the request of MDTA, Honeywell is providing site data to facilitate the ongoing Environmental Impact Studies for the Port Covington redevelopment;
- Submit Seep Remediation Work Plan;
- Submit final design drawings and specification for the installation of the PRB; and
- Mobilize and construct the PRB

### 4. Schedule

A schedule of Consent Order activities anticipated during the third quarter of 2017 is provided below.

Milestone	Anticipated Date
<i>July 2017</i>	
PRB Onsite Pre-bid meeting	7-11-17
Provide Site Data to MDTA	7-12-17
PRB Design Review meeting with MDE	7-13-17
Perform monthly Site status inspection	7-20-17
Submit Q2 Site Status report	7-30-17

<b>Milestone</b>	<b>Anticipated Date</b>
<b><i>August 2017</i></b>	
Perform monthly Site status inspection	TBD
Provide final Seep PRB Design and Drawings	TBD
Mobilize for installation of PRB	8-14-17
Provide PRB construction status updates	TBD
<b><i>September 2017</i></b>	
Perform monthly Site inspection	TBD
Perform quarterly inclinometer/SAA readings	TBD
Provide PRB construction status updates	TBD

Appendix A  
Site Inspection Reports

**2000 Race Street  
Monthly Site Inspection Checklist**

Inspector:	Bill Morris	Date of Inspection:	27-Apr-17
Title:	Environmental Engineer	Date of Last Inspection:	23-Mar-17
Organization:	CH2M HILL	Weather:	Warm, cloudy

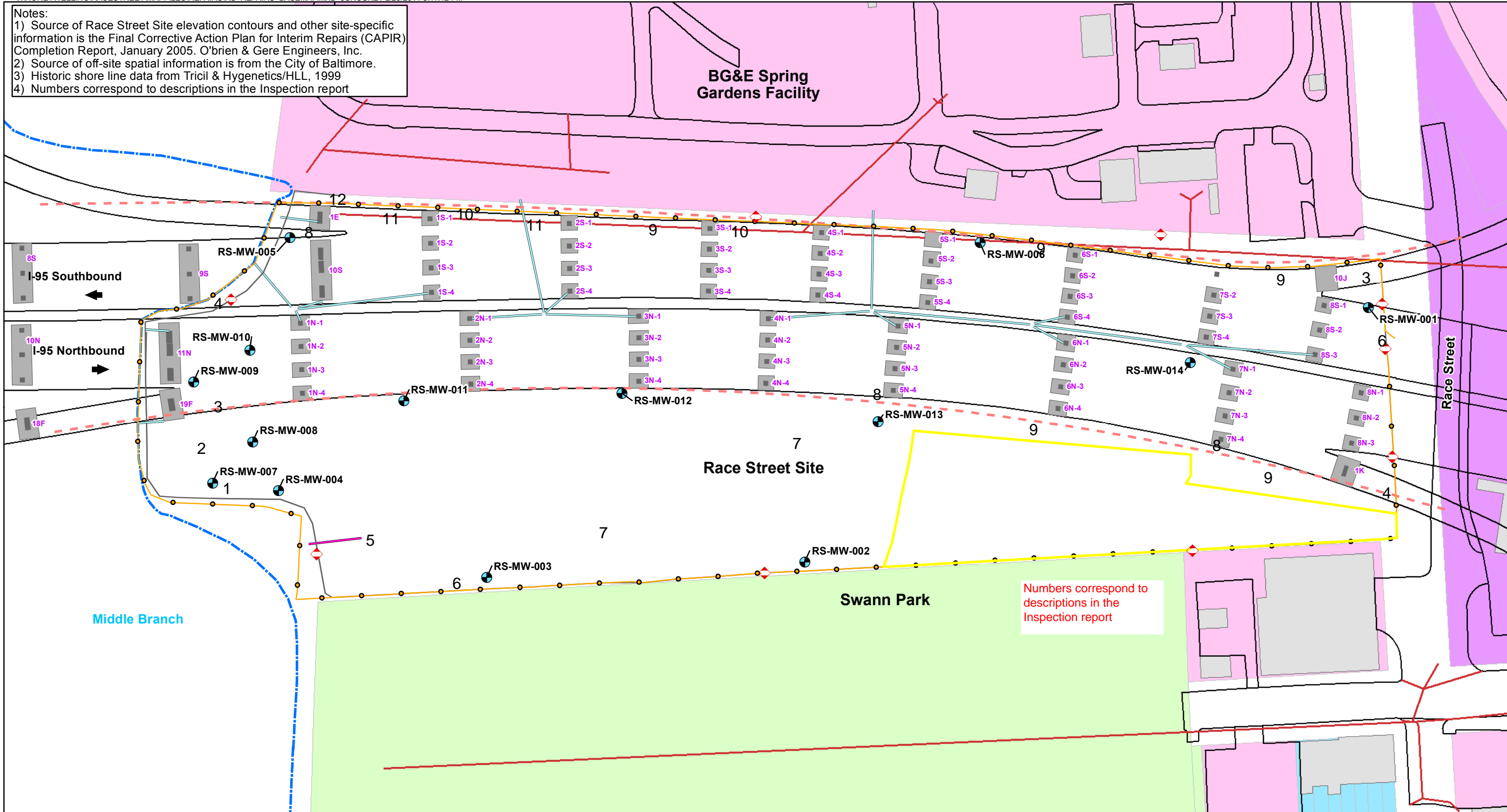
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<b>1. General</b>				
Inspect site for presence of surface debris. Identify type, approximate volume of debris, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist).	4: Trash and debris accumulation. 6: Sediment and debris accumulation with some vegetation growth.	None	NA	Sediment, debris, and vegetation to be removed as part of site maintenance to be performed by the City.
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	None
<b>2. Interstate 95 Footings and Joints</b>				
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)	None	None	NA	NA
	None	None	NA	NA
<b>3. Engineered Cap</b>				
Inspect cap for alligator cracking. Identify estimated area of cracking and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	1: Alligator cracking in asphalt near fence line.	None	NA	Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
Inspect cap for holes. Identify number of holes, width and depth, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	3: Small hole in asphalt. 12: Small hole in asphalt outside of fence	None	NA	Surface cover repairs to be performed as part of the annual cap maintenance work in Q4 2017.
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).	2: Cracks with vegetation 5: Cracks with vegetation between inlet grate and asphalt. 7: Sealed cracks with vegetation 8: Cracks with vegetation between pier footing and asphalt. 9: Cracks with vegetation.	None	NA	Vegetation to be treated as part of site maintenance performed by City. Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
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	11: Localized area with sediment accumulation and vegetation growth.	None	NA	Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA



**2000 Race Street  
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Identify any other observations related to the condition of the cap and potential for cap damage	None	None	NA	NA
<b>4. Fence</b>				
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	6: Cracks with vegetation along fence	None	NA	Vegetation to be treated as part of site maintenance performed by City.
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
<b>5. Aboveground Stormwater Conveyance System</b>				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
<b>6. Vandalism</b>				
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
<b>7. Signage</b>				
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
<b>8. Miscellaneous Items</b>				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Personnel with J.B. Fay onsite for MDTA bridge maintenance work. Daemon Taylor with the City of Baltimore DOT was present onsite for the monthly inspection.			
Other Comments/Observations?				

**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



Numbers correspond to descriptions in the Inspection report

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

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

April 27, 2017

**2000 Race Street  
Monthly Site Inspection Checklist**

Inspector:	Bill Morris	Date of Inspection:	25-May-17
Title:	Environmental Engineer	Date of Last Inspection:	27-Apr-17
Organization:	CH2M HILL	Weather:	Rain, cool

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<b>1. General</b>				
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).	7: Trash and debris accumulation. 1: Sediment and debris accumulation with vegetation growth.	None	NA	Sediment, debris, and vegetation to be removed as part of cap maintenance in Q4 2017.
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	None
<b>2. Interstate 95 Footings and Joints</b>				
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)	None	None	NA	NA
	None	None	NA	NA
<b>3. Engineered Cap</b>				
Inspect cap for alligator cracking. Identify estimated area of cracking and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	9: Alligator cracking in asphalt near fence line.	None	NA	Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
Inspect cap for holes. Identify number of holes, width and depth, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	11: Hole in asphalt outside of fence	None	NA	Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
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).	2: Crack with vegetation 3: Crack with vegetation between inlet grate and asphalt. 5: Sealed cracks with vegetation 6: Crack with vegetation between pier footing and asphalt. 8: Crack with vegetation.	None	NA	Vegetation to be treated as part of site maintenance performed by City. Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
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	10: Localized ponding water	None	NA	Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA

**2000 Race Street  
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Identify any other observations related to the condition of the cap and potential for cap damage	None	None	NA	NA
<b>4. Fence</b>				
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	4: Vegetation along perimeter fence.	None	NA	Vegetation to be treated as part of site maintenance performed by City.
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
<b>5. Aboveground Stormwater Conveyance System</b>				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
<b>6. Vandalism</b>				
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
<b>7. Signage</b>				
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
<b>8. Miscellaneous Items</b>				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Daemon Taylor with the City of Baltimore DOT was present onsite for the monthly inspection. Al Simkins of MDE was onsite for the monthly inspection.			
Other Comments/Observations?				

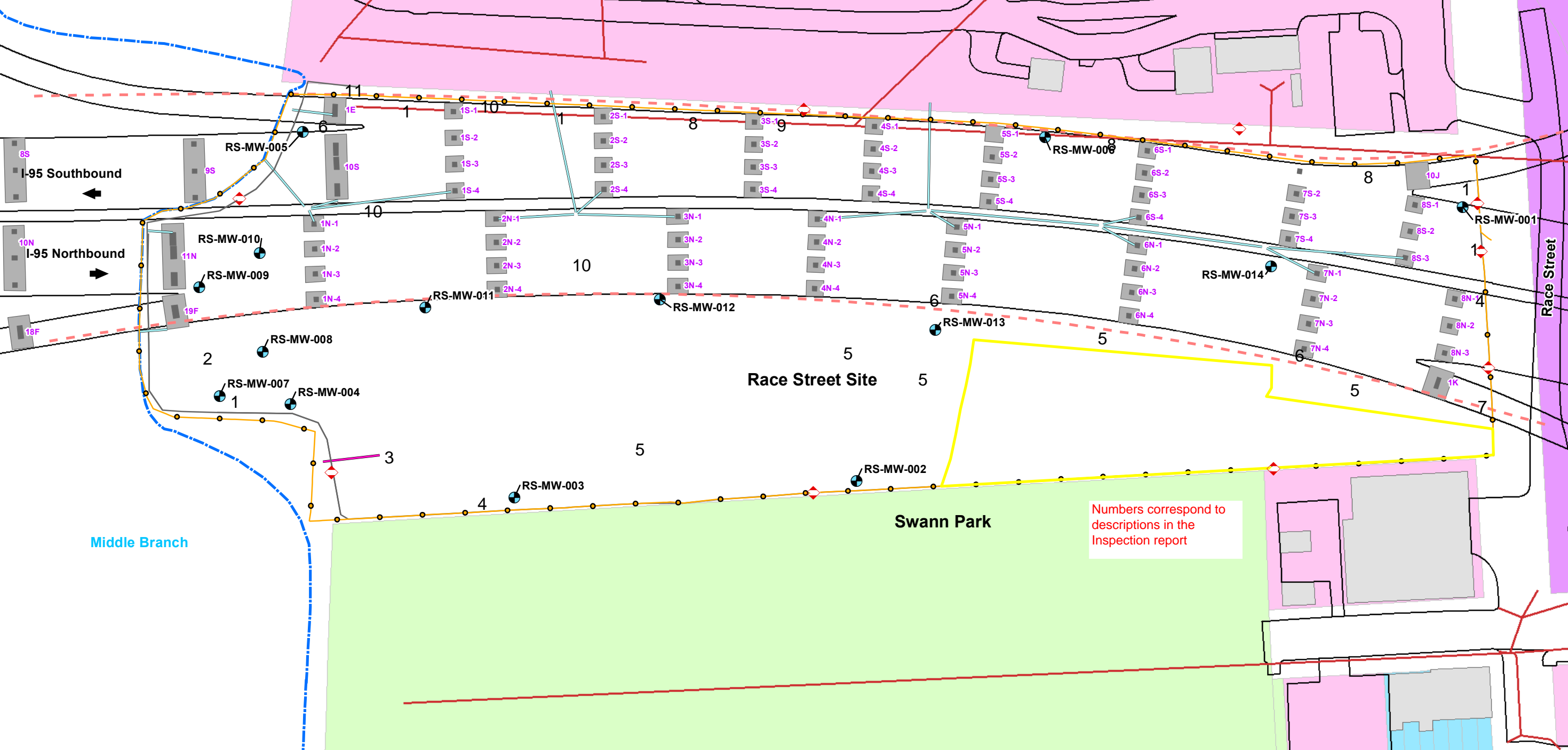
**Notes:**  
 1) Source of Race Street Site elevation contours and other site-specific information is the Final Corrective Action Plan for Interim Repairs (CAPIR) Completion Report, January 2005. O'Brien & Gere Engineers, Inc.  
 2) Source of off-site spatial information is from the City of Baltimore.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

**BG&E Spring Gardens Facility**

**Race Street Site**

**Swann Park**

**Middle Branch**



Numbers correspond to descriptions in the Inspection report

<b>Legend</b>		
◊ Warning Signs	— Existing Shoreline	▭ Buildings
● Monitoring Well Locations	— Fence/Approximate Property Boundary and Limit of Engineered Cap	▭ Concrete Column
— Edge of Pavement	— Fence Installed on Jersey Barriers	▭ Concrete Footer
- - - Approximate Limits of I-95 Former Below	— Baltimore Stormwater Pipe	
— Ground Stormwater System (Abandoned)	▭ Commercial	
— Below Ground Stormwater System	▭ Exempt Commercial	
	▭ Industrial	
	▭ Residential	

0 50 100 Feet  
1 inch = 100 feet

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

May 27, 2017

**2000 Race Street  
Monthly Site Inspection Checklist**

Inspector:	Bill Morris	Date of Inspection:	22-Jun-17
Title:	Environmental Engineer	Date of Last Inspection:	25-May-17
Organization:	CH2M HILL	Weather:	Sunny, warm

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<b>1. General</b>				
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).	8: Trash and debris accumulation. 5: Sediment and debris with vegetation growth.	None	NA	Sediment, debris, and vegetation to be removed as part of annual cap maintenance in Q4 2017.
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	None
<b>2. Interstate 95 Footings and Joints</b>				
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)	None	None	NA	NA
	None	None	NA	NA
<b>3. Engineered Cap</b>				
Inspect cap for alligator cracking. Identify estimated area of cracking and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	9: Alligator cracking in asphalt near fence line.	None	NA	Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
Inspect cap for holes. Identify number of holes, width and depth, and location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	10: Hole in asphalt outside of fence	None	NA	Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
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).	2: Crack with vegetation between inlet grate and asphalt. 4: Sealed cracks with vegetation. 6: Crack with vegetation between pier footing and asphalt. 7: Crack with vegetation.	None	NA	Vegetation to be treated as part of site maintenance performed by City. Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
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	1: Ponding water on asphalt	None	NA	Surface cover repairs to be performed as part of annual cap maintenance in Q4 2017.
Inspect shorefront embankment for evidence of erosion or releases	None	None	NA	NA

**2000 Race Street  
Monthly Site Inspection Checklist**

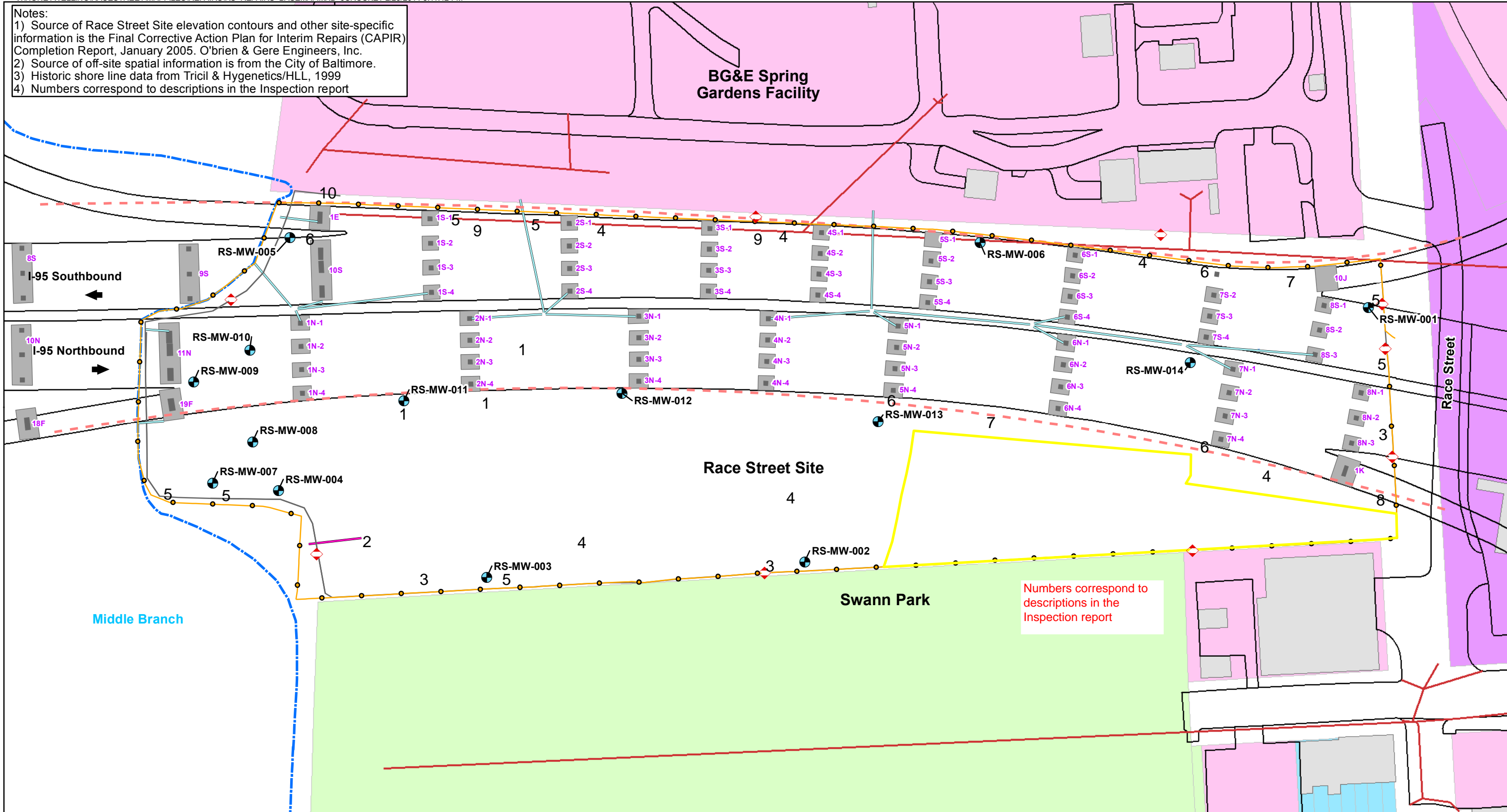
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Identify any other observations related to the condition of the cap and potential for cap damage	None	None	NA	NA
<b>4. Fence</b>				
Inspect fence for holes. Note number of holes. Identify location 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	3: Vegetation growth along perimeter fence.	None	NA	Vegetation to be treated as part of site maintenance performed by City.
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
<b>5. Aboveground Stormwater Conveyance System</b>				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	None	None	NA	NA
<b>6. Vandalism</b>				
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
<b>7. Signage</b>				
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
<b>8. Miscellaneous Items</b>				
Any interaction with people on or adjacent to the site? If yes, identify who, title, organization, contact information, and content of interaction	Ravic Miller with the City of Baltimore DOT was present onsite for the monthly inspection. Al Simkins of MDE was onsite for the monthly inspection.			
Other Comments/Observations?				

**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

**BG&E Spring Gardens Facility**

**Race Street Site**

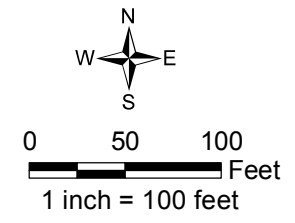
**Swann Park**



Numbers correspond to descriptions in the Inspection report

**Legend**

- Warning Signs
- 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



Monthly Inspection Map  
 Race Street Site  
 Baltimore, MD

June 22, 2017

