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October 30, 2016

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

Subject: Transmittal of Quarterly Site Progress Report, Third Quarter 2016  
2000 Race Street Site, Baltimore, Maryland

Dear Mr. Hammerberg:

Please find attached the Third Quarter 2016 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 requirements of Section III.A of the 2000 Race Street Site Consent Order (effective date of May 23, 2007).

If you have any questions or require additional information, please do not hesitate to contact me at 973-455-4131.

Very truly yours,

**HONEYWELL INTERNATIONAL INC.**



Christopher M. French, R.G., C.E.G.  
Manager, Remediation & Evaluation Services

Attachment

cc: Mr. Ed Dexter (MDE)  
Mr. Michael Daneker (Arnold & Porter)  
Ms. Dawn Lettman (City of Baltimore)  
Mr. Art Shapiro (City of Baltimore)  
Mr. Vivaldi Nguyen (City of Baltimore)

# Third Quarter 2016 Race Street Quarterly Site Progress Report, 2000 Race Street, Baltimore, Maryland

*Prepared for*

Honeywell International Inc.

Mayor and City Council of Baltimore, Maryland

October 2016



CH2M HILL Engineers, Inc.  
2411 Dulles Corner Park, Suite 500  
Herndon, VA 20171

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# Third Quarter 2016 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 third quarter of 2016, from July 1, 2016, through September 30, 2016.

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 third quarter of 2016 include the following:

- July 7: SAA readings;
- July 20: Monthly Site status call with MDE;
- July 21: Monthly Site status inspection (Appendix A);
- July 27: Instrumentation maintenance inspection;
- August 8–9: Inclinator/SAA readings;
- August 19: Instrumentation recalibration;
- August 23: Maintenance of bridge-monitoring equipment;
- August 25: Monthly Site status inspection (Appendix A);
- September 22: Monthly Site status inspection (Appendix A); and
- September 30: Instrument readings.

Interim remedial measure treatability evaluations progressed during the quarter. Maintenance work on the I-95 Bridge continued during the quarter.

### 3. Upcoming Work and Submittals during the Fourth Quarter of 2016

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 (October, November, and December);
- Perform quarterly inclinometer readings; and
- Continue IRM conceptual evaluations.

### 4. Schedule

A schedule of Consent Order activities anticipated during the fourth quarter of 2016 is provided below.

Milestone	Anticipated Date
<b><i>October 2016</i></b>	
Perform monthly Site status inspection	10-20-16
<b><i>November 2016</i></b>	
Perform monthly Site status inspection	TBD
<b><i>December 2016</i></b>	
Perform monthly Site inspection	TBD
Perform quarterly inclinometer/SAA readings	TBD

Appendix A  
Site Inspection Reports

**2000 Race Street  
Monthly Site Inspection Checklist**

Inspector:	Scott Sickles	Date of Inspection:	21-Jul-16
Title:	Construction Manager	Date of Last Inspection:	23-Jun-16
Organization:	CH2M HILL	Weather:	Hot, sunny

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).	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
<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
Inspect around pier footings for joint failure. Identify location via description or on Site Plan (attach to Monthly Site Inspection Checklist)	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)	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).	2: Crack with vegetation between pier footing and asphalt. 3: Crack between pier footing and asphalt. 4: Crack between concrete fence post base and asphalt. 1: Previously sealed cracks with returning vegetation growth. 5: Crack with vegetation around inlet grate.	City notified on July 22, 2016.	TBD	Vegetation to be treated as part of site maintenance performed by City. Surface cover repairs to be performed as part of cap maintenance following the completion of the MDTA bridge maintenance work.
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

**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		City notified on July 22, 2016.	TBD	Vegetation to be treated as part of site maintenance performed by City.
<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).	7: Damage at the top of the fence	City notified on July 22, 2016.	TBD	Fence repair to be conducted as part of site maintenance performed by the City.
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 growth along fence and up slope.	City notified on July 22, 2016.	TBD	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. Albert Simkins of MDE and Vivaldi Nguyen of the City of Baltimore Department of Public Works were present onsite for the monthly inspection.			
Other Comments/Observations?				



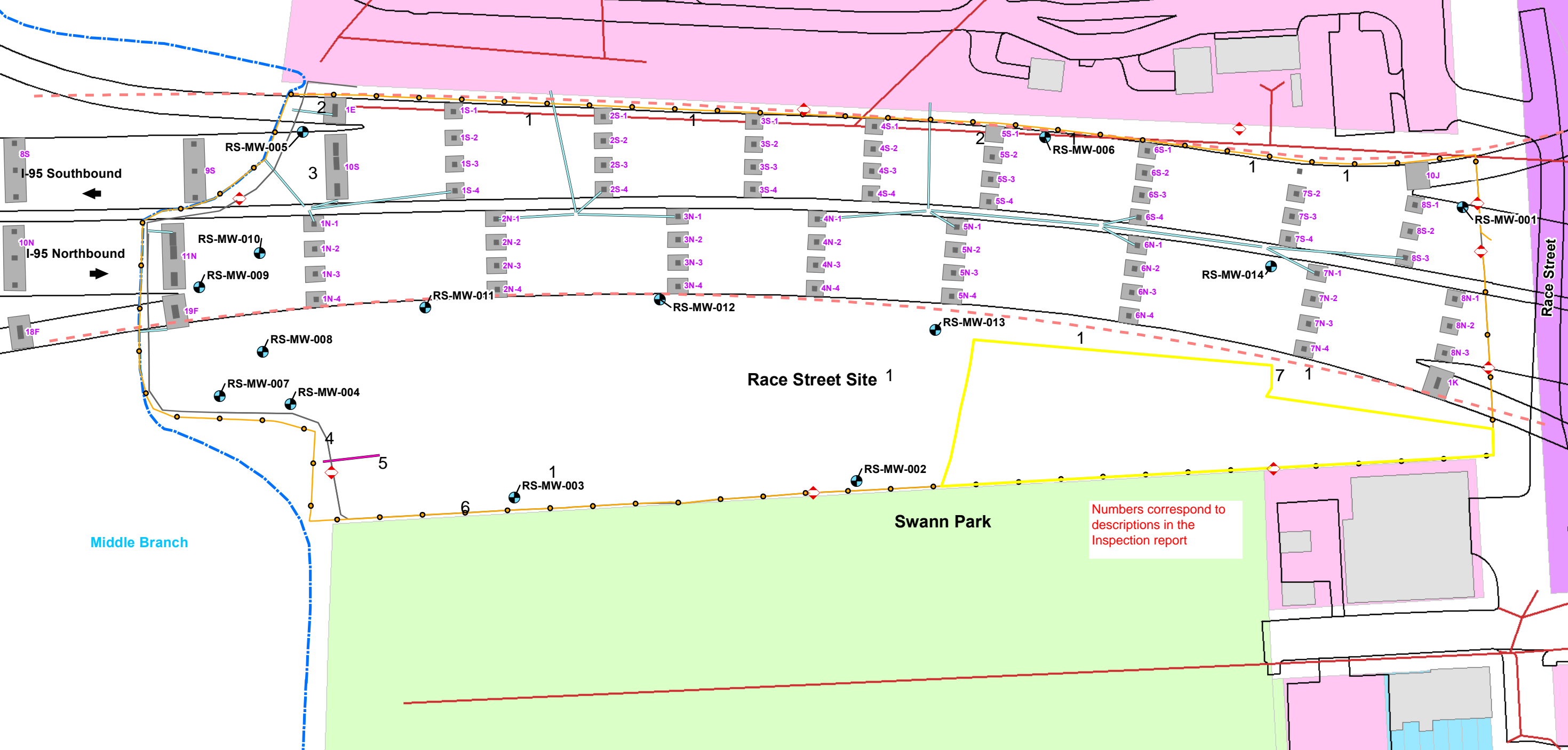
**Notes:**  
 1) Source of Race Street Site elevation contours and other site-specific information is the Final Corrective Action Plan for Interim Repairs (CAPIR) Completion Report, January 2005. O'Brien & Gere Engineers, Inc.  
 2) Source of off-site spatial information is from the City of Baltimore.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

**BG&E Spring Gardens Facility**

**Race Street Site 1**

**Swann Park**

**Middle Branch**



Numbers correspond to descriptions in the Inspection report

<b>Legend</b>		
<ul style="list-style-type: none"> <li> Warning Signs</li> <li> Monitoring Well Locations</li> <li> Edge of Pavement</li> <li> Approximate Limits of I-95 Former Below</li> <li> Ground Stormwater System (Abandoned)</li> <li> Below Ground Stormwater System</li> </ul>	<ul style="list-style-type: none"> <li> Existing Shoreline</li> <li> Fence/Approximate Property Boundary and Limit of Engineered Cap</li> <li> Fence Installed on Jersey Barriers</li> <li> Baltimore Stormwater Pipe</li> <li> Commercial</li> <li> Exempt Commercial</li> <li> Industrial</li> <li> Residential</li> </ul>	<ul style="list-style-type: none"> <li> Buildings</li> <li> Concrete Column</li> <li> Concrete Footer</li> </ul>

0 50 100 Feet  
1 inch = 100 feet

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

July 21, 2016

**2000 Race Street  
Monthly Site Inspection Checklist**

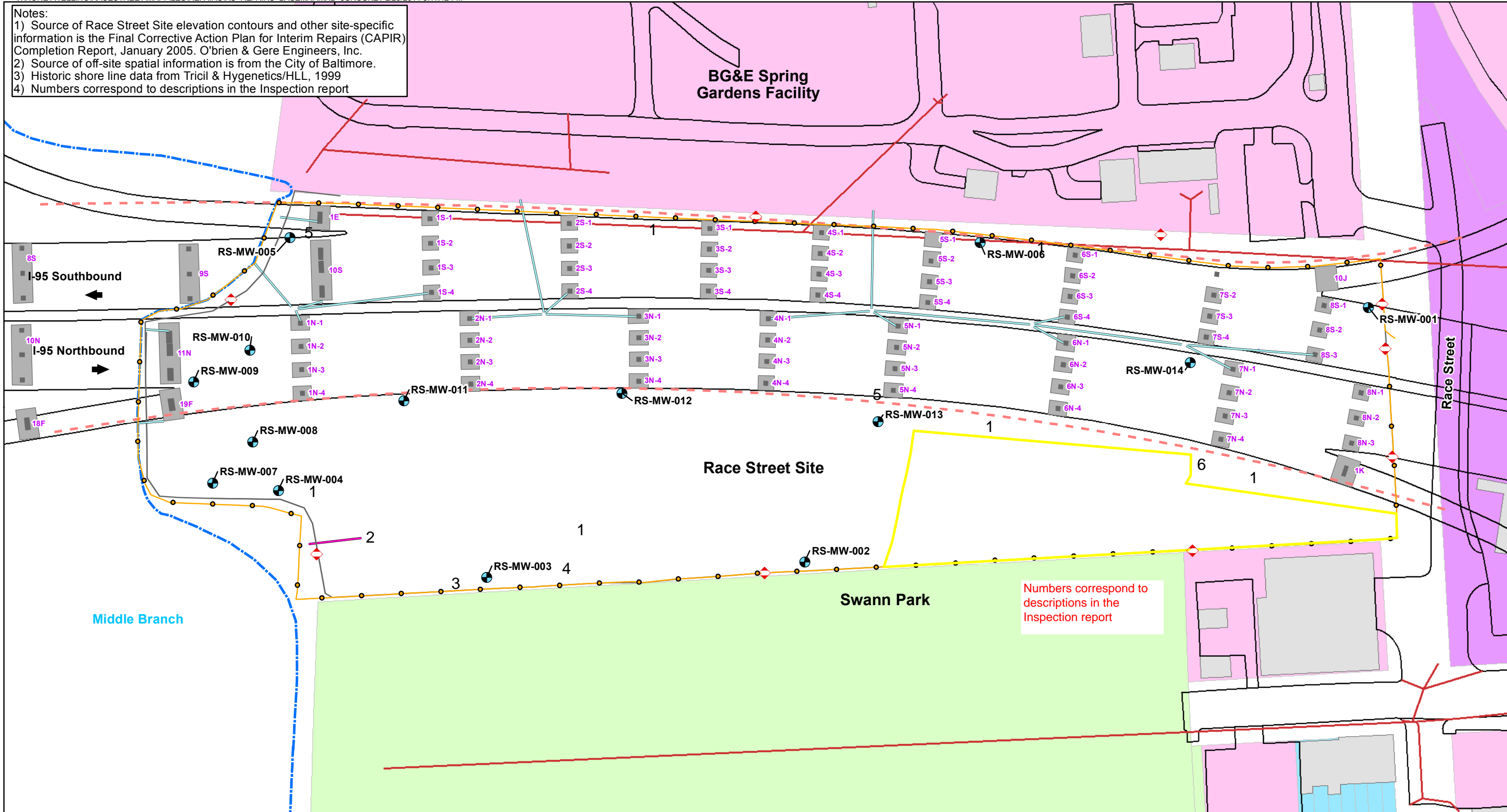
Inspector:	Scott Sickles	Date of Inspection:	25-Aug-16
Title:	Construction Manager	Date of Last Inspection:	21-Jul-16
Organization:	CH2M HILL	Weather:	Hot, sunny

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).	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
<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)	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).	1: Previously sealed cracks with returning vegetation growth. 2: Crack with vegetation around inlet grate. 5: Crack with vegetation between pier footing and asphalt.	City notified on July 22, 2016.	TBD	Vegetation to be treated as part of site maintenance performed by City. Surface cover repairs to be performed as part of cap maintenance following the completion of the MDTA bridge maintenance work.
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	4: Sediment and debris with vegetation growth	City notified on July 22, 2016.	TBD	Vegetation to be treated as part of site maintenance performed by City.

**2000 Race Street  
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<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).	6: Damage at the top of the fence	City notified on July 22, 2016.	TBD	Fence repair to be conducted as part of site maintenance performed by the City.
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: Cracks with vegetation growth along fence and up slope. Vegetation obstructs the fence line.	City notified on July 22, 2016.	TBD	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. Albert Simkins of MDE and Vivaldi Nguyen of the City of Baltimore Department of Public Works were 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		

0 50 100 Feet  
1 inch = 100 feet

Monthly Inspection Map  
Race Street Site  
Baltimore, MD

August 25, 2016

**2000 Race Street  
Monthly Site Inspection Checklist**

Inspector:	Scott Sickles	Date of Inspection:	22-Sep-16
Title:	Construction Manager	Date of Last Inspection:	25-Aug-16
Organization:	CH2M HILL	Weather:	Warm, Mostly clear

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).	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	City notified on July 22, 2016.	TBD	The City is in the process of contracting with a private contractor to address vegetation growth at the site.
<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)	7: Localized alligator cracking on north side along fence line. Two areas approximately 20 X 20'	None	NA	Areas of alligator cracking to be repaired as part of site maintenance.
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).	1: Previously sealed cracks with returning vegetation growth. 2: Crack with vegetation around inlet grate. 5: Crack with vegetation between pier footing and asphalt.	City notified on July 22, 2016.	TBD	The City is in the process of contracting with a private contractor to address vegetation growth at the site. Surface cover repairs to be performed as part of cap maintenance following the completion of the MDTA bridge maintenance work.
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	4: Sediment and debris with vegetation growth	City notified on July 22, 2016.	TBD	The City is in the process of contracting with a private contractor to address vegetation growth at the site.

**2000 Race Street  
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
<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).	6: Damage at the top of the fence	City notified on July 22, 2016.	TBD	Fence repair to be conducted as part of site maintenance performed by the City.
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: Cracks with vegetation growth along fence and up slope. Vegetation obstructs the fence line.	City notified on July 22, 2016.	TBD	The City is in the process of contracting with a private contractor to address vegetation growth at the site.
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)	8: Asphalt on slope is cracked and separating, could compromise integrity of fence in the future	None	NA	Cracks to be filled during Q4 2016.
<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. Albert Simkins of MDE and Vivaldi Nguyen of the City of Baltimore Department of Public Works were present onsite for the monthly inspection.			
Other Comments/Observations?				

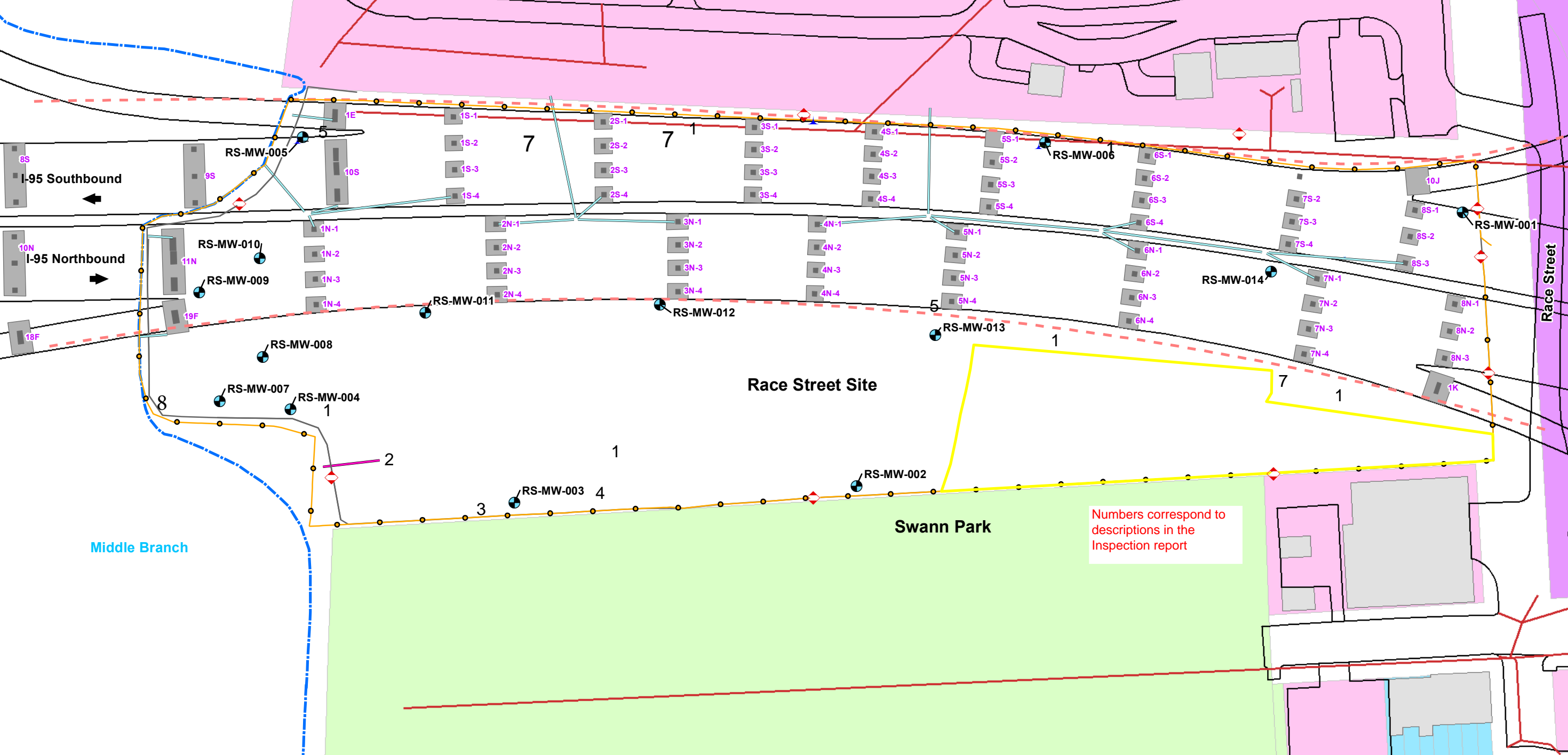
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 2) Source of off-site spatial information is from the City of Baltimore.  
 3) Historic shore line data from Tricil & Hygenetics/HLL, 1999  
 4) Numbers correspond to descriptions in the Inspection report

**BG&E Spring Gardens Facility**

**Race Street Site**

**Swann Park**

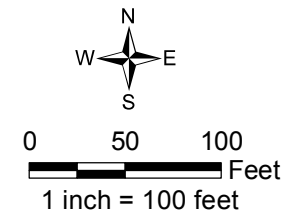
**Race Street**



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

September 22, 2016

