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Health, Safety, Environmental, Product Stewardship and Sustainability
115 Tabor Road
Morris Plains, NJ 07950
www.honeywell.com

October 29, 2018

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, Third Quarter 2018, 2000 Race Street Site, Baltimore, Maryland

Dear Mr. Hammerberg:

Please find attached the Third Quarter 2018 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 May 23, 2007.

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,

A handwritten signature in blue ink that reads "Maria Kaouris".

Maria Kaouris
Remediation Manager

Attachment

cc: Mr. Ed Dexter—MDE
Mr. Al Simpkins—MDE
Mr. Michael Daneker—Arnold & Porter
Ms. Dawn Lettman—City of Baltimore
Mr. Ravic Miller—City of Baltimore
Mr. Christopher French—Honeywell

THIRD QUARTER 2018 RACE STREET QUARTERLY SITE PROGRESS REPORT

2000 RACE STREET
BALTIMORE, MARYLAND

Prepared for

Honeywell

115 Tabor Road
Morris Plains, New Jersey 07950

Prepared by

JACOBS®

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

October 2018

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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 are required to include the following information:

- Work completed, and documents submitted to MDE in the preceding quarter
- A schedule and submittals for the upcoming quarter
- 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 2018, from July 1, 2018, through September 30, 2018.

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; and the *Supplemental Site Characterization Report (former arsenic shed area)*, dated February 2018.

2. Quarter in Review

Site-related activities performed during the third quarter of 2018 include the following:

- July 9: Second Half 2018 Bridge Monitoring Report submitted to MDE
- July 13: Project Coordinator call with MDE
- July 23: Second Quarter 2018 Site Progress Report submitted to MDE
- July 31: Monthly Site status inspection (Appendix A)
- August 22: Monthly Site status inspection (Appendix A)
- August 22: IRMA Determination Report, Corrective Measures Alternatives Analysis (CMAA), and Controlled Hazardous Post-Closure Permit Application submitted to MDE
- August 24: Project Coordinator call with MDE
- September 19: Surface Cover Construction Completion Report (CCR) Technical Memorandum submitted to MDE
- September 20: Permeable Reactive Barrier (PRB) Operations, Maintenance and Monitoring (OM&M) Plan submitted to MDE
- September 20: Monthly site status inspection (Appendix A)

- September 28: Project Coordinator call with MDE

3. Upcoming Work and Submittals during the Fourth Quarter of 2018

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)
- Submit the Third Quarter 2018 Site Progress report
- Perform quarterly Shape Accel Array (SAA)/inclinometer readings
- Submit First Half 2018 Bridge Monitoring Report to MDE

4. Schedule

A schedule of Consent Order activities anticipated during the fourth quarter of 2018 is provided below.

Milestone	Anticipated Date
October 2018	
CMAA and CHS Public Informational Meeting	10-11-18
Perform monthly site status inspection	10-25-18
Submit Q3 2018 Site Progress report	10-30-18
November 2018	
Perform monthly site status inspection	TBD
Perform quarterly SAA/inclinometer readings	TBD
December 2018	
Perform monthly Site Status inspection	TBD

Appendix A

Site Inspection Reports

**2000 Race Street
Monthly Site Inspection Checklist**

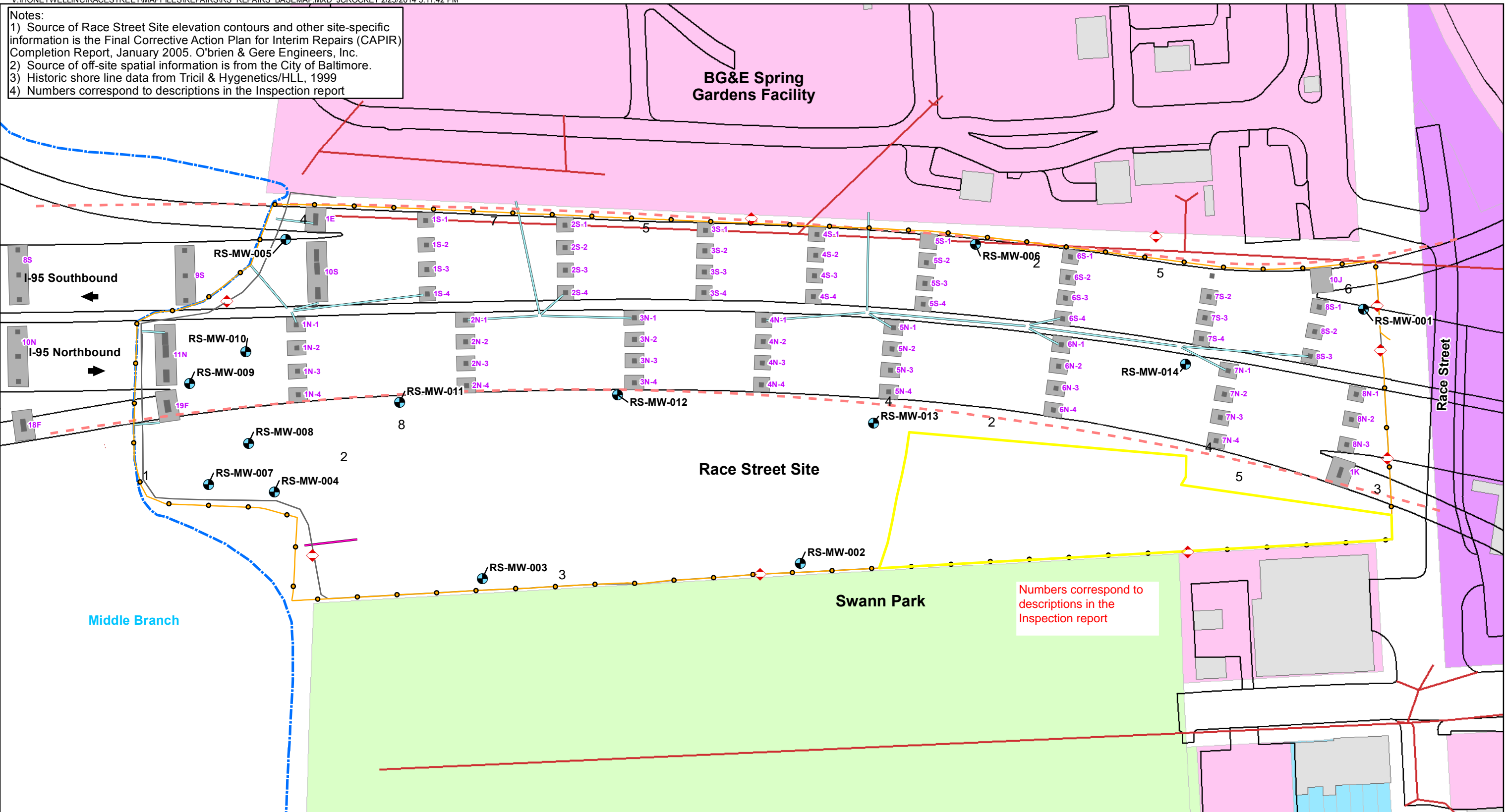
Inspector:	Bill Morris	Date of Inspection:	31-Jul-18
Title:	Environmental Engineer	Date of Last Inspection:	21-Jun-18
Organization:	Jacobs Engineering	Weather:	Cloudy, warm

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).	7: Sediment and debris accumulation with vegetation growth	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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)	None	None	NA	NA
	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 or on Site Plan (attach to Monthly Site Inspection Checklist)	6: Vegetation growth through asphalt	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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).	5: Crack in asphalt with vegetation growth 4: Crack between pier footing and asphalt.	None	NA	Surface cover repairs to be performed as part of scheduled site maintenance and cap repairs.
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).	2: Wide crack in asphalt with vegetation growth	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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**

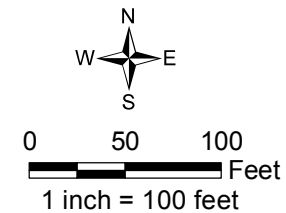
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine 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	3: Vegetation growth along fence	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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 was on site for the monthly inspection.			
Other Comments/Observations?	8: Damage to well bollard - to be addressed as part of well installation in 2019 1: Well cover missing bolt - to be addressed as part of well installation in 2019			

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

- | | | |
|---|---|-----------------|
| 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 | |



Monthly Inspection Map
Race Street Site
Baltimore, MD
July 31, 2018



**2000 Race Street
Monthly Site Inspection Checklist**

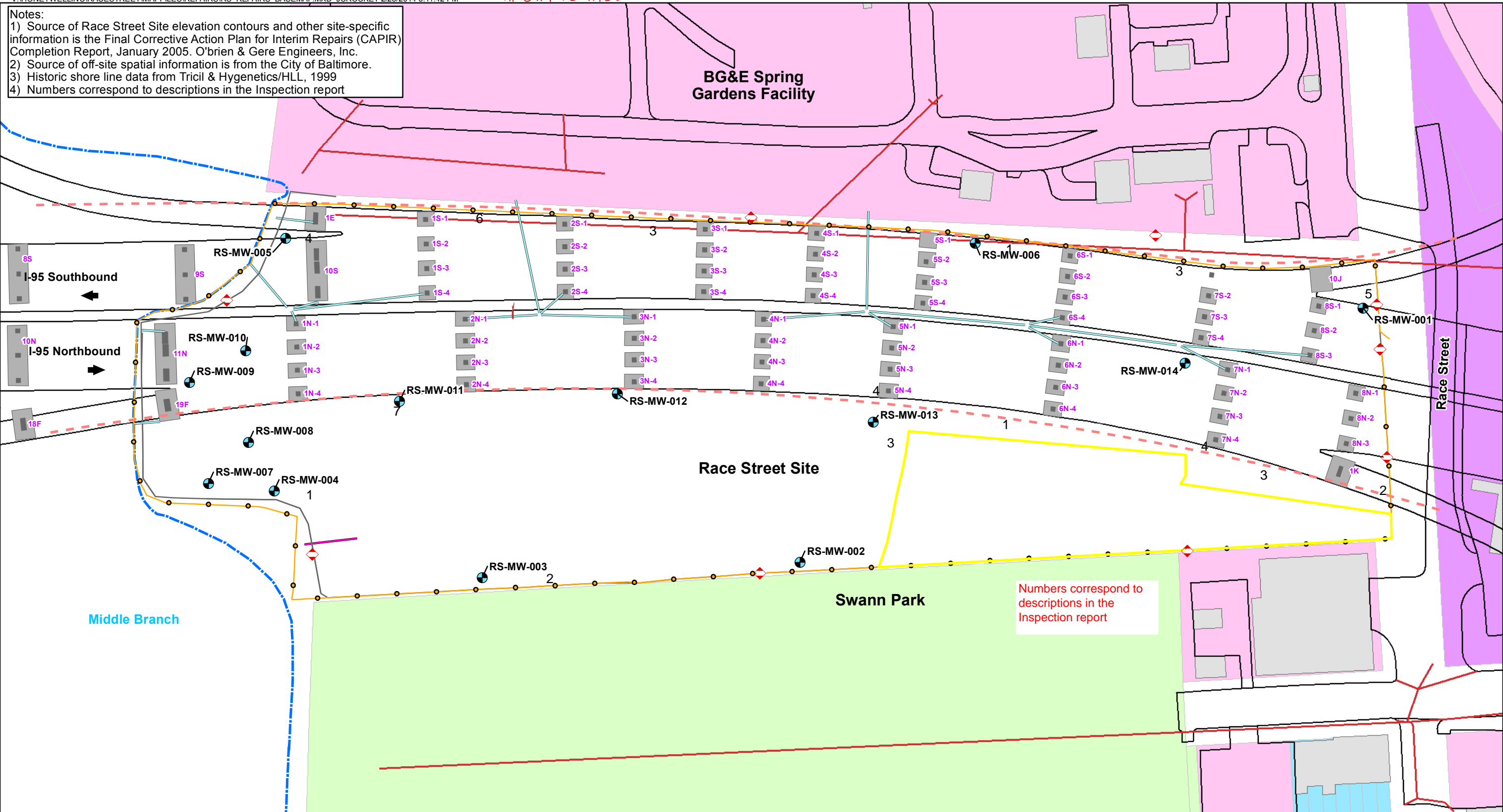
Inspector:	Bill Morris	Date of Inspection:	22-Aug-18
Title:	Environmental Engineer	Date of Last Inspection:	31-Jul-18
Organization:	Jacobs Engineering	Weather:	Partly cloudy, hot

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).	6: Sediment and debris accumulation with vegetation growth	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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)	None	None	NA	NA
	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 or on Site Plan (attach to Monthly Site Inspection Checklist)	5: Vegetation growth through asphalt	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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).	3: Crack in asphalt with vegetation growth 4: Crack between pier footing and asphalt.	None	NA	Surface cover repairs to be addressed as part of scheduled site maintenance and cap repairs.
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).	1: Wide crack in asphalt with vegetation growth	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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**

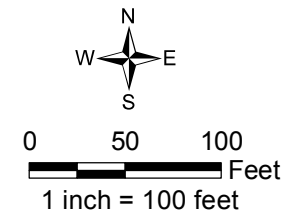
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine 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	2: Vegetation growth along fence	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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 was on site for the monthly inspection.			
Other Comments/Observations?	7: Damage to well/bollard - to be addressed as part of well installation in 2019			

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.
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4) Numbers correspond to descriptions in the Inspection report



Legend

- | | | |
|---|---|-----------------|
| 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 | |



Monthly Inspection Map
Race Street Site
Baltimore, MD
August 22, 2018



**2000 Race Street
Monthly Site Inspection Checklist**

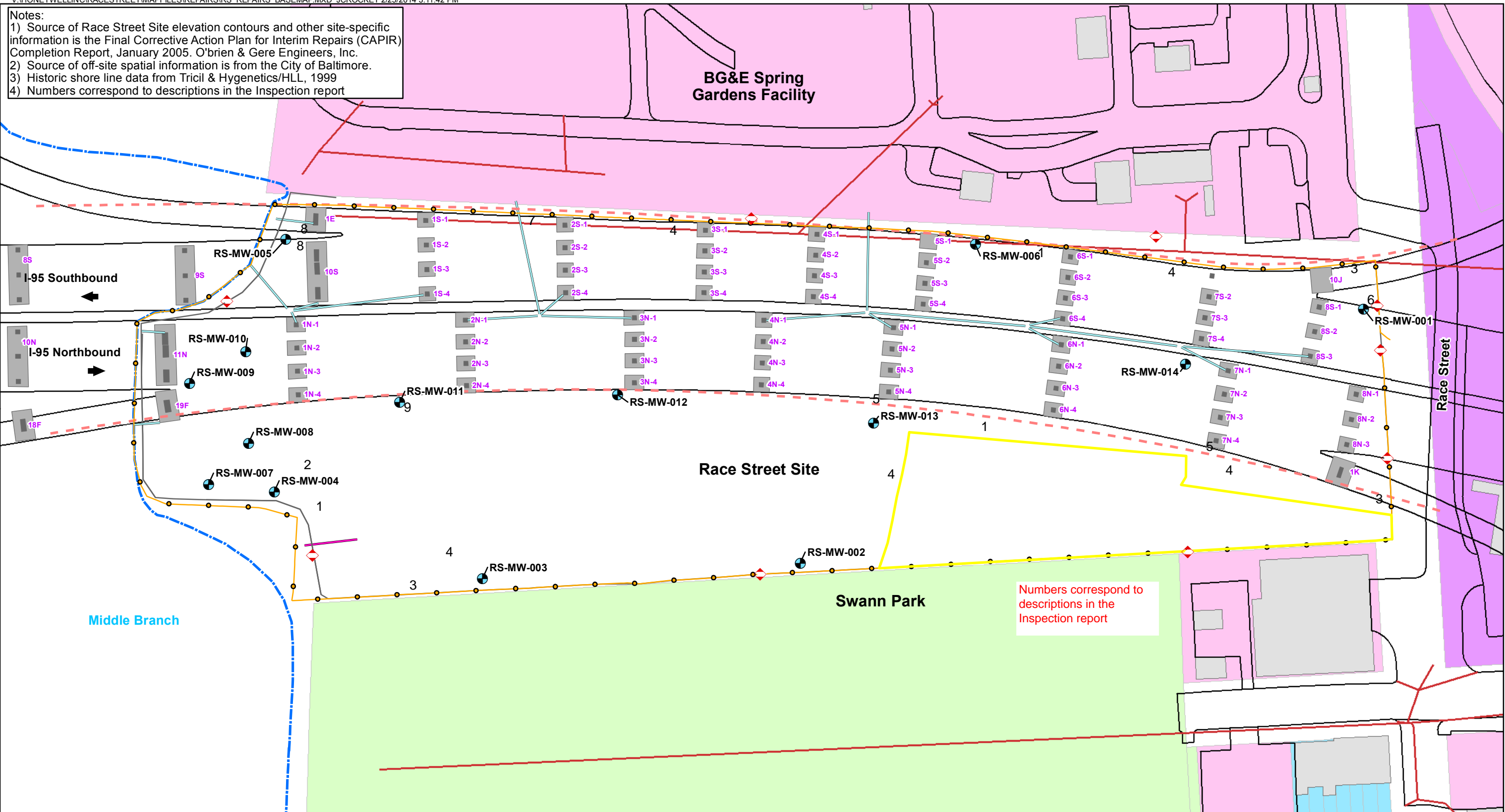
Inspector:	Bill Morris	Date of Inspection:	20-Sep-18
Title:	Environmental Engineer	Date of Last Inspection:	22-Aug-18
Organization:	Jacobs Engineering	Weather:	Cloudy, warm

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).	7: Sediment and debris accumulation with vegetation growth	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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)	None	None	NA	NA
	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 or on Site Plan (attach to Monthly Site Inspection Checklist)	2: Small hole in asphalt. 6: Vegetation growth through asphalt	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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).	4: Crack in asphalt with vegetation growth 5: Crack between pier footing and asphalt with vegetation growth	None	NA	Surface cover repairs to be addressed as part of scheduled site maintenance and cap repairs.
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).	1: Wide crack in asphalt with vegetation growth 8: Crack between pier footing and asphalt with vegetation growth	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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**

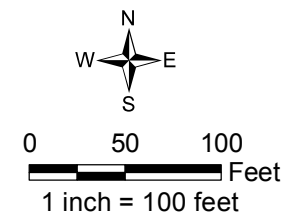
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine 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	3: Vegetation growth along fence	None	NA	COB to remove sediment, debris, and vegetation as part of scheduled site maintenance.
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 DOT were on site for the monthly inspection. Workers with Abscope were on site preparing equipment for shipment.			
Other Comments/Observations?	9: Damage to well/bollard - to be addressed as part of well installation in 2019			

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

- 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 20, 2018

