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April 29, 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, First Quarter 2016
2000 Race Street Site, Baltimore, Maryland

Dear Mr. Hammerberg:

Please find attached the First 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)

First 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

April 2015



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

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First 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 fourth quarter of 2015, from January 1, 2016, through March 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 (BGE) 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 (CHS) 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 fourth quarter of 2015 include the following:

- January 21: Monthly Site status inspection (Appendix A);
- January 28: Monthly Site status call with MDE;
- February 18/19: MDTA H-Pile pilot test for bridge maintenance project;
- February 24: Monthly Site status call with MDE;
- February 25: Monthly Site status inspection (Appendix A);
- March 23: Monthly Site status call with MDE;
- March 24: Monthly Site status inspection (Appendix A);
- March 29: Inclinometer and SAA readings taken; and
- March 30: Second Half 2015 Bridge Monitoring Data Report submitted to MDE.

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 Second Quarter of 2016

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

- April, May, and June: Conduct monthly Site status inspections and participate in monthly Site status calls with MDE;
- Perform quarterly inclinometer readings;
- Submit Interim Remedial Measures Pilot Test Addendum report;
- Submit Permeable Reactive Barrier, Ferrous Sulfide Treatability Study, Phase II Test Plan'
- Submit Project Instructions: Groundwater Sampling Pre-Design Investigation, Phase II Column testing;
- Collect groundwater samples for the pre-design column testing;
- Perform surface cover maintenance;
- Submit the first quarter 2016 site status report to MDE;
- Perform Phase II Ferrous Sulfide Treatability study.

4. Schedule

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

Milestone	Anticipated Date
<i>April 2016</i>	
Perform surface cover maintenance	4-14/15-16
Perform monthly Site status inspection	4-21-16
Submit Interim Remedial Measures Pilot Test Addendum report	TBD
Submit Permeable Reactive Barrier , Ferrous Sulfide Treatability Study, Phase II Test Plan	TBD
Submit Project Instructions: Groundwater Sampling Pre-Design Investigation, Phase II Column Test	TBD
Submit First Quarter 2016 Site Status Report	4-30-16
<i>May 2016</i>	
Perform monthly Site status inspection	TBD
<i>June 2016</i>	
Perform monthly Site inspection	TBD
Perform quarterly inclinometer/SAA readings	TBD

Appendix A
Site Inspection Reports

**2000 Race Street
Monthly Site Inspection Checklist**

Inspector:	Bill Morris	Date of Inspection:	16-Jan-16
Title:	Environmental Engineer	Date of Last Inspection:	17-Dec-15
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).	5: Trash and debris.	None	NA	Trash collection and removal performed by City on a periodic basis.
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
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
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)	9: Animal borrow. 10: Small hole in the asphalt near the pier footing. 7: Localized erosion of side slope.	None	NA	Surface cover repairs to be performed as part of cap maintenance to be performed during Q2 2016.
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 : Cracks with vegetation. 4 : Vegetation between pier footing and asphalt.	None	NA	Vegetation to be treated as part of site maintenance performed by City. Surface cover repairs to be performed as part of cap maintenance during Q2 2016.
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: Cracks with vegetation. 2: Cracks with vegetation growth along fence and up slope. 6: 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 cap maintenance during Q2 2016.
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	8: Localized erosion.	None	NA	Surface cover repairs to be performed as part of cap maintenance during Q2 2016.
Inspect fence to determine if barbed wire is in good condition	None	None	NA	NA
Inspect gates, chains, and locks for damage				
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)				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	Personnel with J.B. Fay onsite for MDTA bridge maintenance work. Albert Simkins of MDE was present onsite for the monthly inspection.			
Other Comments/Observations?	None			

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

I-95 Southbound

I-95 Northbound

Middle Branch

Race Street Site

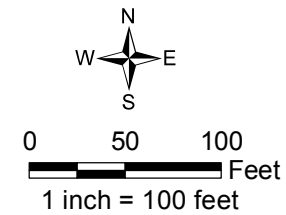
Swann Park

Race Street

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

January 21, 2016



**2000 Race Street
Monthly Site Inspection Checklist**

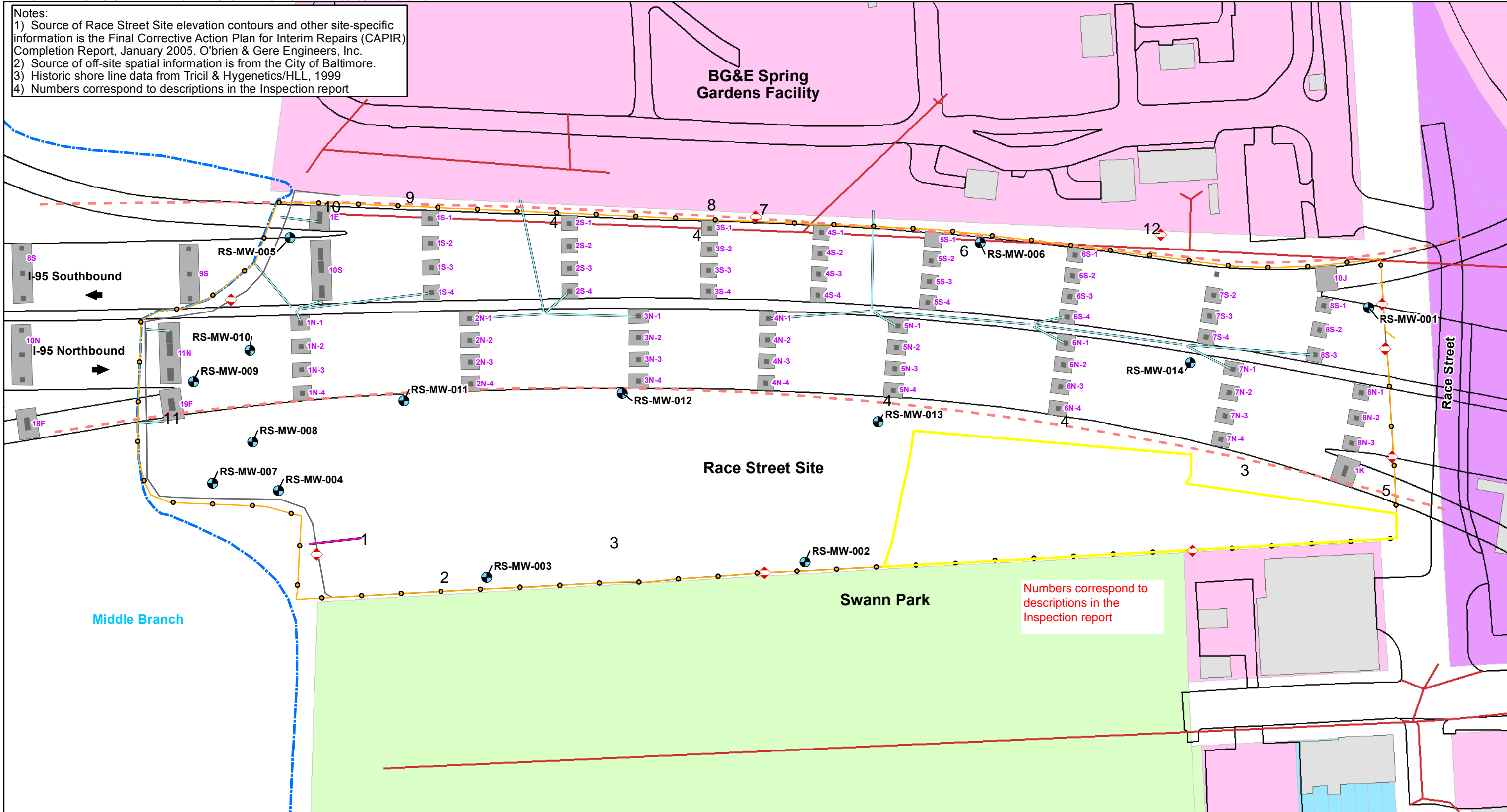
Inspector:	Bill Morris	Date of Inspection:	25-Feb-16
Title:	Environmental Engineer	Date of Last Inspection:	16-Jan-16
Organization:	CH2M HILL	Weather:	Overcast, windy

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).	5: Trash and debris.	None	NA	Trash collection and removal performed by City on a periodic basis.
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
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
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)	9: Animal borrow. 10: Small hole in the asphalt near the pier footing. 7: Localized erosion along side slope.	None	NA	Surface cover repairs to be performed as part of cap maintenance during Q2 2016.
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 : Cracks with vegetation. 4 : Vegetation between pier footing and asphalt.	None	NA	Vegetation to be treated as part of site maintenance performed by City. Surface cover repairs to be performed as part of cap maintenance during Q2 2016.
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: Cracks around inlet with vegetation growth. 2: Cracks with vegetation growth along fence and side slope. 6: 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 cap maintenance during Q2 2016.
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

**2000 Race Street
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
4. Fence				
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	8: Localized erosion.	None	NA	Surface cover repairs to be performed as part of cap maintenance during Q2 2016.
Inspect fence to determine if barbed wire is in good condition	None	None	NA	NA
Inspect gates, chains, and locks for damage				
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)				NA
5. Aboveground Stormwater Conveyance System				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	11: Leaking storm water conveyance piping under I-95.	MDTA notified	2/26/2016	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)	12: A sign posted on the perimeter fence has fallen.	Sign reattached.	Feb-16	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	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 Work ere present onsite for the monthly inspection.			
Other Comments/Observations?	None			

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

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

0 50 100 Feet
1 inch = 100 feet

Monthly Inspection Map
Race Street Site
Baltimore, MD

February 25, 2016

**2000 Race Street
Monthly Site Inspection Checklist**

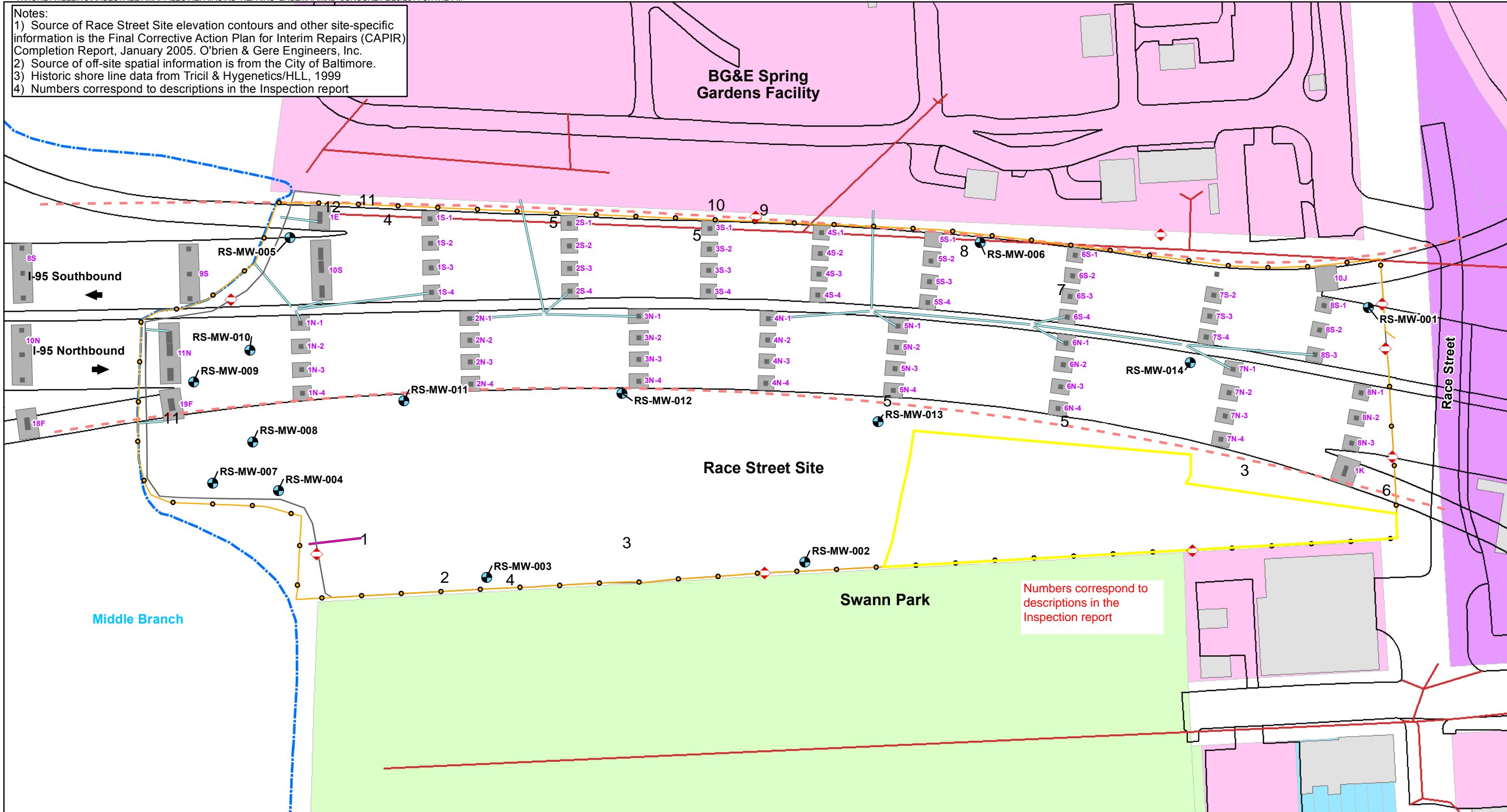
Inspector:	Bill Morris	Date of Inspection:	24-Mar-16
Title:	Environmental Engineer	Date of Last Inspection:	25-Feb-16
Organization:	CH2M HILL	Weather:	Sunny, warm

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).	6: Trash and debris. 4: Sediment and debris accumulation.	None	NA	Trash collection and removal performed by City on a periodic basis.
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
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
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)	11: Animal borrow. 12: Small hole in the asphalt near the pier footing. 9: Void in the slope.	None	NA	Surface cover repairs to be performed as part of cap maintenance during Q2 2016.
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 : Cracks with vegetation. 5 : Vegetation between pier footing and asphalt.	None	NA	Vegetation to be treated as part of site maintenance performed by City. Surface cover repairs to be performed as part of cap maintenance during Q2 2016.
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: Cracks around inlet with vegetation growth and debris accumulation. 2: Cracks with vegetation growth along fence and up slope. 8: 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 cap maintenance during Q2 2016.
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

**2000 Race Street
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
4. Fence				
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	10: Localized erosion.	None	NA	Surface cover repairs to be performed as part of cap maintenance during Q2 2016.
Inspect fence to determine if barbed wire is in good condition	None	None	NA	NA
Inspect gates, chains, and locks for damage				
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			NA
5. Aboveground Stormwater Conveyance System				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	7: Crack in stormwater conveyance pipe under highway supported by columns 6S.	Check the conveyance pipe for leaks during a rain event.	NA	MDTA notified during 2-2016.
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	Personnel with J.B. Fay onsite for MDTA bridge maintenance work. Albert Simkins of MDE was present onsite for the monthly inspection.			
Other Comments/Observations?				

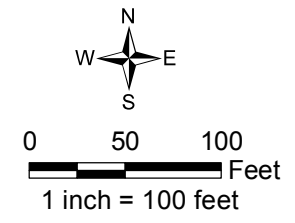
Notes:
 1) Source of Race Street Site elevation contours and other site-specific information is the Final Corrective Action Plan for Interim Repairs (CAPIR) Completion Report, January 2005. O'Brien & Gere Engineers, Inc.
 2) Source of off-site spatial information is from the City of Baltimore.
 3) Historic 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

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
 March 24, 2016

