
Second Quarter 2013 Race Street Quarterly Site Progress Report, 2000 Race Street, Baltimore, Maryland

Prepared for

Honeywell International Inc.

The Mayor and City Council of Baltimore, Maryland

July 2013

CH2MHILL®

15010 Conference Center Drive Suite 200
Chantilly, VA 20151

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SECTION 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 2013, from April 1 through June 30, 2013.

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.

SECTION 2

Quarter in Review

Activities performed at the Site during the second quarter of 2013 include the following:

- April 18: Monthly Site status inspection (Appendix A);
- April : MdTA performed a physical inspection of the bridge;
- May 1: Monthly Site status call with MDE;
- May 15: Received Bridge Inspection reports from MdTA including (i) 2012 Biennial Sounding Inspection Report for I-395 Ramp F Over Middle Branch, (ii) Ramp G, IS 95 NB Over Hanover Street, and (ii) IS 95 NB Over Middle Branch;
- May 30: Monthly Site status inspection (Appendix A);
- May: Honeywell began technical assessment of the Permeable Reactive Barrier component formulation that is being considered as an Interim Remedial Measure for the site;
- June 5: Monthly Site status call with MDE;
- June 6: Obtained inclinometer readings;
- June 24: Mobilization for installation of bridge monitoring equipment; and
- June 28: Monthly Site status inspection (Appendix A).

On March 29, 2013 cap repairs were performed consisting of sealing 700 linear feet of asphalt cracks on the western side of the site. This information is being reported herein as the extent of the repairs, as illustrated on the April 2013 Monthly Inspection Map, was not captured in the First Quarter 2013 Progress Report.

SECTION 3

Upcoming Work and Submittals during the Third Quarter of 2013

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

- July, August, and September: Conduct monthly Site status inspections and participate in monthly Site status calls with MDE;
- Complete installation of two Shaped Accel Arrays (SAAs) and one inclinometer as part of the bridge monitoring program during July 2013;
- Perform quarterly inclinometer readings; and
- Submit the Second Quarter 2013 Site Status report to MDE by July 30, 2013.

SECTION 4

Schedule

A schedule of activities anticipated during the third quarter of 2013 is provided below.

Milestone	Anticipated Date
July 2013	
Complete installation of two SAAs and one inclinometer	7-12-13
Perform monthly Site inspection	7-25-13
Submit second quarter 2013 Site Status Report	7-30-13
August 2013	
Perform monthly Site status inspection	TBD
September 2013	
Perform monthly Site inspection	TBD
Perform quarterly inclinometer readings	TBD
Submit 1 st Half 2013 Semi-Annual Bridge Monitoring Report	9-2013

Appendix A
Site Inspection Reports

**2000 Race Street
Monthly Site Inspection Checklist**

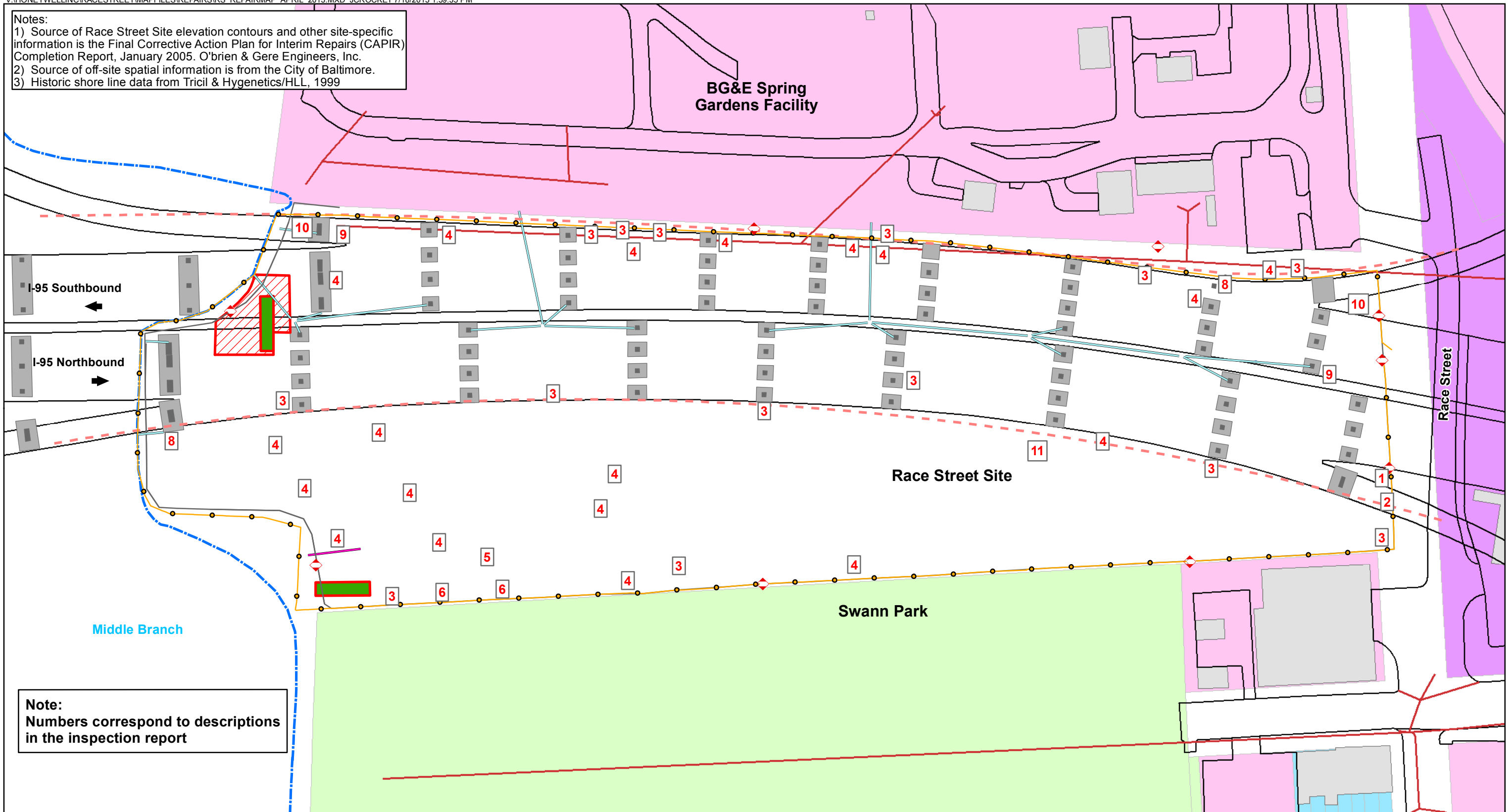
Inspector:	Kenneth Biles	Date of Inspection:	18-Apr-13
Title:	Assistant Project Manager	Date of Last Inspection:	27-Mar-13
Organization:	CH2M HILL	Weather:	Cloudy with Light Rain

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).	1) trash/debris in localized area 5) HDPE tubing stored onsite	1) bags of trash removed during site visit	19-Apr-13	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)	3) vegetation in cracks	Schedule application of vegetation		Herbicide application to be made by City during scheduled O&M activities.
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)	11) 20 foot by 20 foot area with alligator cracks	None	NA	Cap repairs periodically performed including crack sealing and asphalt patching.
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).	4) ~ 50 foot crack	None	NA	Cap repairs periodically performed including crack sealing and asphalt patching.
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).	6) cracks along edge of asphalt paving	None	NA	Cap repairs periodically performed including crack sealing and asphalt patching
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**

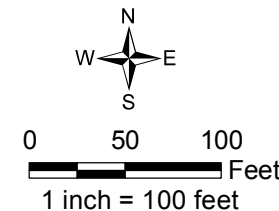
Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
Inspect fence for holes. Note number of holes. Identify location of holes via description or on Site Plan (attach to Monthly Site Inspection Checklist).	None	None	NA	NA
Inspect fence to determine 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	2) small section of fence with no barbed wire 7) vegetation on the fence and barbed wire top guard 10) damaged barbed wire	None		Herbicide application and fence repairs to be made by City during scheduled O&M activities.
Inspect gates, chains, and locks for damage	None	None	NA	NA
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	None	None	NA	NA
Inspect fence to determine if there is any burrowing beneath fence	None	None	NA	NA
Identify any other observations related to the condition of the fence and potential for fence damage (e.g., points of weakness, corrosion)	None	None	NA	NA
5. Aboveground Stormwater Conveyance System				
Inspect aboveground stormwater conveyance system including piping, downspouts, and drain in southwest corner of site for proper operation	8) damage storm drain pipe 9) scupper drain is clogged and leaking	MdTA to be notified.	NA	MdTA performs periodic inspection and maintenance of the bridge structure.
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	Jim Leizear (MDE) and Gary Hacker (ERM) onsite during site visit.			
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



Note:
 Numbers correspond to descriptions in the inspection report

- Legend**
- ◊ Warning Signs
 - 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
 - Baltimore Stormwater Pipe
 - Commercial
 - Exempt Commercial
 - Industrial
 - Residential
 - Approximate Area of Crack Sealing
 - Approximate Area of Surface Sealant Application
 - Buildings
 - Concrete Column
 - Concrete Footer



Monthly Inspection Map
 Race Street Site
 Baltimore, MD
 April 18, 2013



**2000 Race Street
Monthly Site Inspection Checklist**

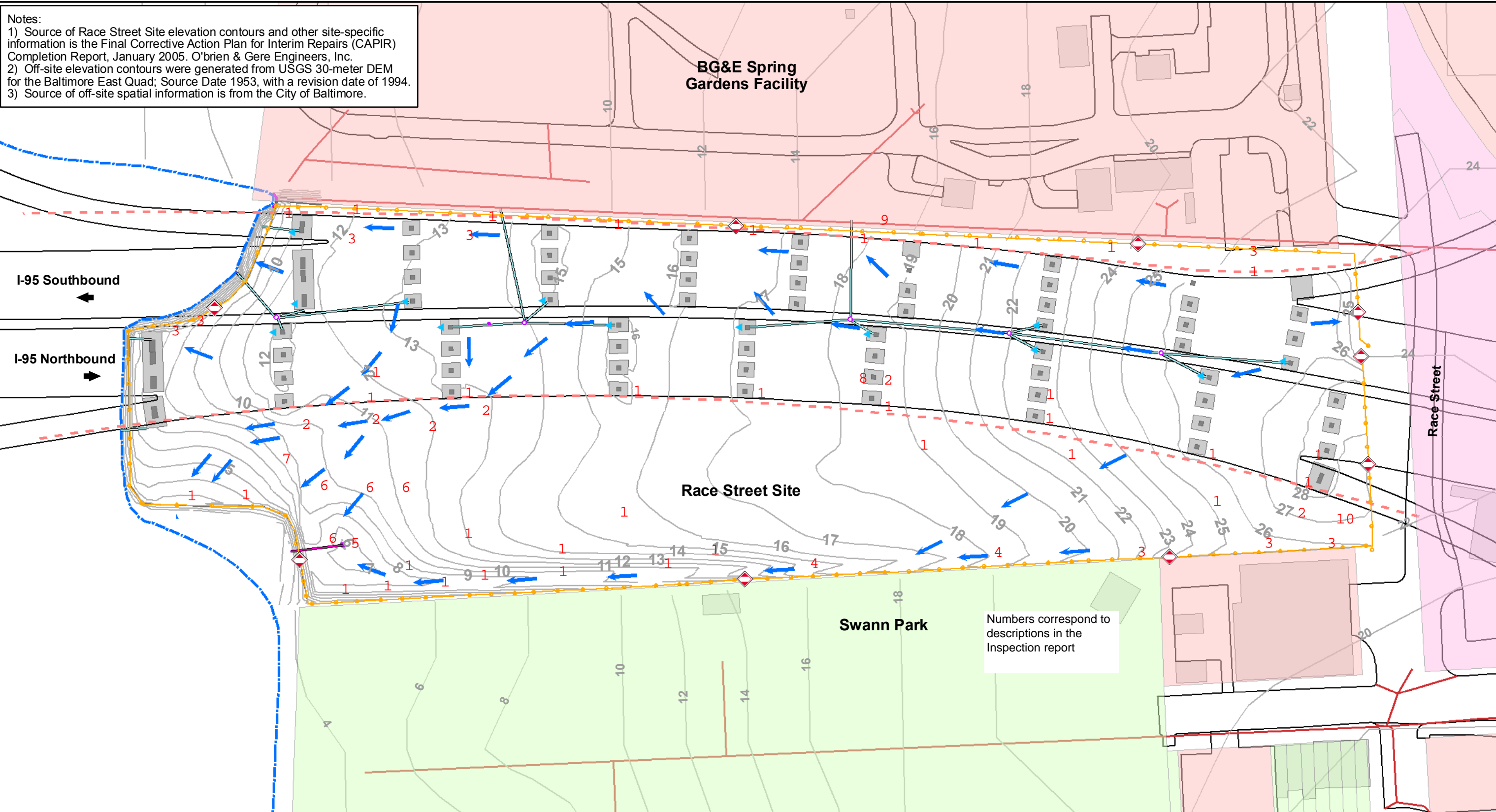
Inspector:	Kenneth Biles	Date of Inspection:	30-May-13
Title:	Assistant Project Manager	Date of Last Inspection:	18-Apr-13
Organization:	CH2M HILL	Weather:	Clear, Warm

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).	10) trash/debris in localized area	Trash collected removed during site visit.	30-May-13	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)	1) vegetation in cracks of asphalt 4) vegetation along fence line	None	NA	Herbicide application to be made by City during scheduled O&M activities.
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)	2) alligator cracks with vegetation	None		Cap repairs periodically performed including crack sealing, asphalt patching, and herbicide application for weed control.
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).	6) crack in localized areas without vegetation	None	NA	Cap repairs periodically performed including crack sealing, asphalt patching, and herbicide application for weed control.
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	5) storm drain clogged	Debris removed from storm drain.	30-May-13	NA
Inspect shorefront embankment for evidence of erosion or releases	9) erosion off-site side slope	None	NA	Cap repairs periodically performed including crack sealing and asphalt patching.
Identify any other observations related to the condition of the cap and potential for cap damage	8) localized settlement	None	NA	Cap repairs periodically performed including crack sealing and asphalt patching.
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	7) gate at west side of site open	Gate closed and locked	30-May-13	NA
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	3) vegetation on fence	None	NA	Herbicide application to be made by City during scheduled O&M activities.
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	James Leizear (MDE) and Josh Floyd (ERM) were present during site visit.			
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) Off-site elevation contours were generated from USGS 30-meter DEM for the Baltimore East Quad; Source Date 1953, with a revision date of 1994.
 3) Source of off-site spatial information is from the City of Baltimore.



Numbers correspond to descriptions in the Inspection report

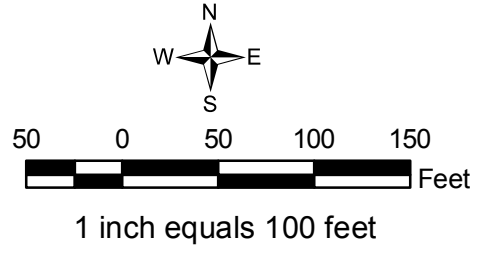
Legend

- Existing Shoreline
- Approximate Limits of I-95
- Edge of Pavement
- Storm Manhole
- Above Ground Stormwater Conveyance System
- Below Ground Stormwater Conveyance System
- Warning Sign
- Fence/Approximate Property Boundary
- Elevation Contours (feet-MSL)
- Buildings
- Down Spouts
- Baltimore Stormwater Pipe

Land Use

- Commercial
- Exempt Commercial
- Industrial
- Residential

- Concrete Column
- Concrete Footer



Monthly Inspection Map
 Race Street Site
 Baltimore, MD
 May 30, 2013



**2000 Race Street
Monthly Site Inspection Checklist**

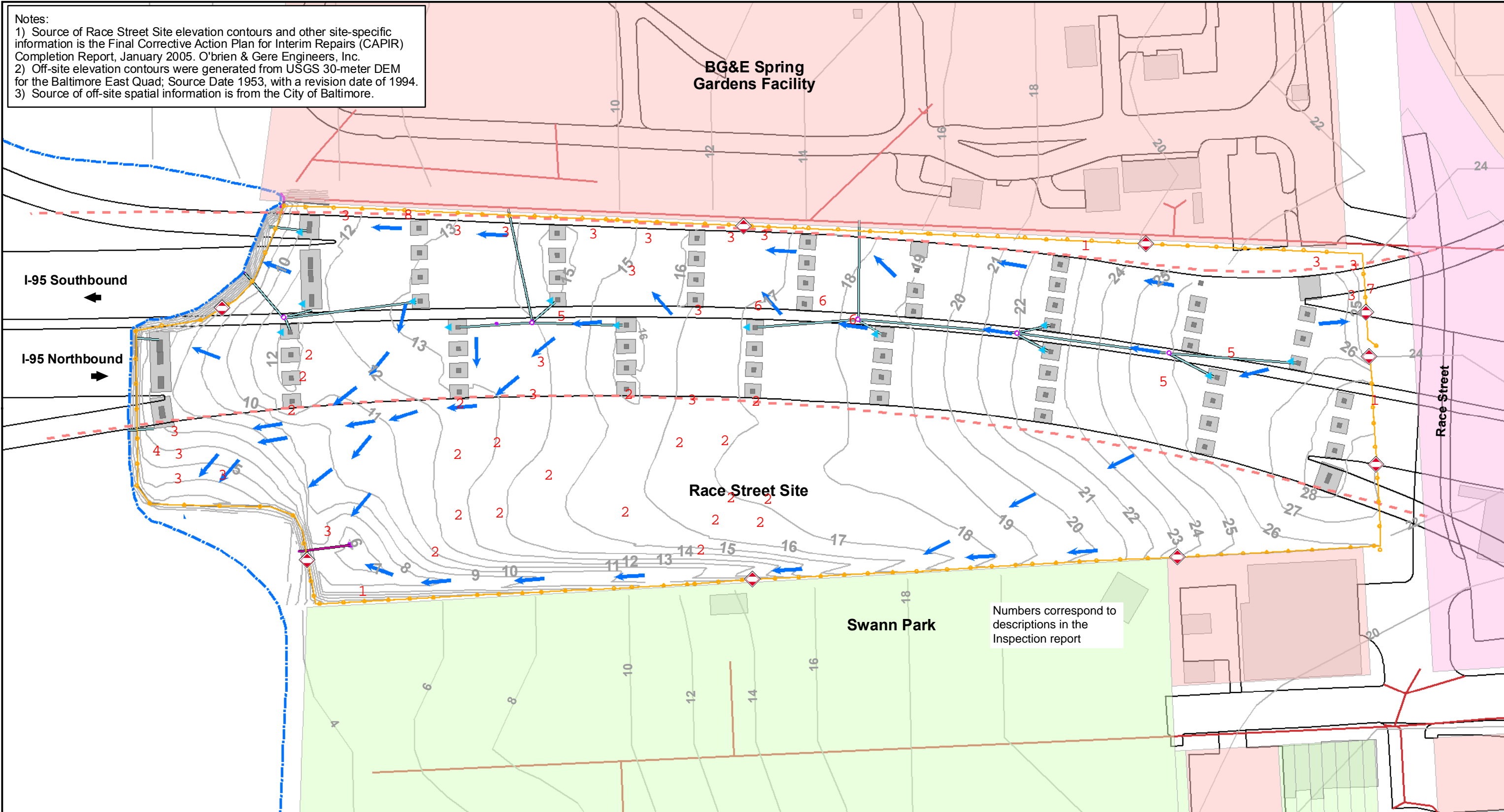
Inspector:	Kenneth Biles	Date of Inspection:	28-Jun-13
Title:	Assistant Project Manager	Date of Last Inspection:	30-May-13
Organization:	CH2M HILL	Weather:	Clear, Hot

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).	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)	2) localized shallow cracks with vegetation	None	NA	Herbicide application to be made by City during scheduled maintenance activities (see note below).
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)	6) localized area with asphalt cracking	None	NA	Cap repairs periodically performed including crack sealing and asphalt patching.
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)	8) localized subsidence of asphalt surface.	None	NA	Cap repairs periodically performed including crack sealing and asphalt patching.
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) localized cracks with vegetation.			Herbicide application to be made by City during scheduled maintenance activities (see note below).
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	5) localized pooled water	None	NA	Cap repairs periodically performed including crack sealing and asphalt patching.
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	Herbicide application to be made by City during scheduled O&M activities (see note below).
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	7) damaged barbed wire top guard			City to perform fence repairs as part of scheduled maintenance activities.
Inspect gates, chains, and locks for damage	None	None		
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	1) vegetation along fence	None	NA	Herbicide application to be made by City during scheduled O&M activities (see note below).
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	Josh Floyd (ERM) and Jim Leizear (MDE) were present for site visit.			
Other Comments/Observations?	4) drilling of boring during site visit. The City is in transition with respect to responsibilities for site maintenance activities but expects to schedule a herbicide application during August 2013.			

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) Off-site elevation contours were generated from USGS 30-meter DEM for the Baltimore East Quad; Source Date 1953, with a revision date of 1994.
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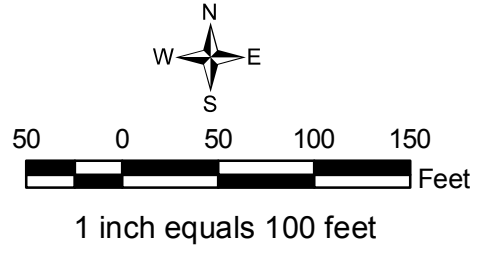
Numbers correspond to descriptions in the Inspection report

Legend

- Existing Shoreline
- Approximate Limits of I-95
- Edge of Pavement
- Storm Manhole
- Above Ground Stormwater Conveyance System
- Below Ground Stormwater Conveyance System
- Warning Sign
- Fence/Approximate Property Boundary
- Elevation Contours (feet-MSL)
- Buildings
- Down Spouts
- Baltimore Stormwater Pipe

Land Use

- Residential
- Commercial
- Exempt Commercial
- Industrial
- Concrete Column
- Concrete Footer



Monthly Inspection Map
 Race Street Site
 Baltimore, MD
 June 28, 2013

