
Race Street Quarterly Site Progress Report Third Quarter 2011

2000 Race Street Baltimore, MD

Prepared for

Honeywell

101 Columbia Road
Morristown, N.J.

and

The Mayor and City
Council of Baltimore

October 2011

Prepared by

CH2MHILL

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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 Race Street Site-related activities conducted under the Consent Order during the third quarter of 2011, from July 1 through September 30, 2011.

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. The Site has not received CHS since 1976. 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; and the "Near Shore Investigation Report," dated December 2009.

SECTION 2

Quarter in Review

Activities performed at the Site during the third quarter of 2011 include the following:

- July 6: Performed final round of post-treatment groundwater monitoring within the pilot test area;
- July 20: Monthly Site status call with MDE;
- July 28: Monthly Site status inspection (Appendix A);
- July 30: Submission of the second quarter 2011 Site Status Report to MDE;
- August 18: Monthly Site status inspection (Appendix A);
- August 25: Monthly Site status call with MDE;
- September 21: Monthly Site status call with MDE; and
- September 22: Monthly Site status inspection (Appendix A).

SECTION 3

Upcoming Work and Submittals During Fourth Quarter 2011

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

- October, November, December: Conduct monthly Site status inspections and participate in monthly Site status calls with MDE;
- Install bridge-monitoring instrumentation at the Site;
- Submit Interim Remedial Measures Assessment (IRMA) Investigation and Pilot Test Data Report presenting results from the pilot testing and the geotechnical and hydrogeologic characterization of the area inland of the seep; and
- Initiate IRMA report.

The Fourth Quarter 2011 Site Status Report will be submitted to the MDE by January 30, 2012.

SECTION 4

Schedule

A schedule of Consent Order activities anticipated during the fourth quarter of 2011 and first quarter of 2012 is provided below.

Milestone	Anticipated Date
<i>October 2011</i>	
Perform monthly Site inspection	10-20-2011
Submit Third Quarter 2011 Site Status Report	10-30-2011
Mobilize for bridge monitoring program	10-10-2011
<i>November 2011</i>	
Perform monthly Site inspection	TBD
<i>December 2011</i>	
Perform monthly Site inspection	TBD
Submit IRMA Investigation and Pilot Test Data Report	TBD
<i>First Quarter 2012</i>	
Submit Fourth Quarter 2011 Site Status Report	1-30-2012
Complete monthly Site inspection	TBD

Appendix A
Site Inspection Reports

**2000 Race Street
Monthly Site Inspection Checklist**

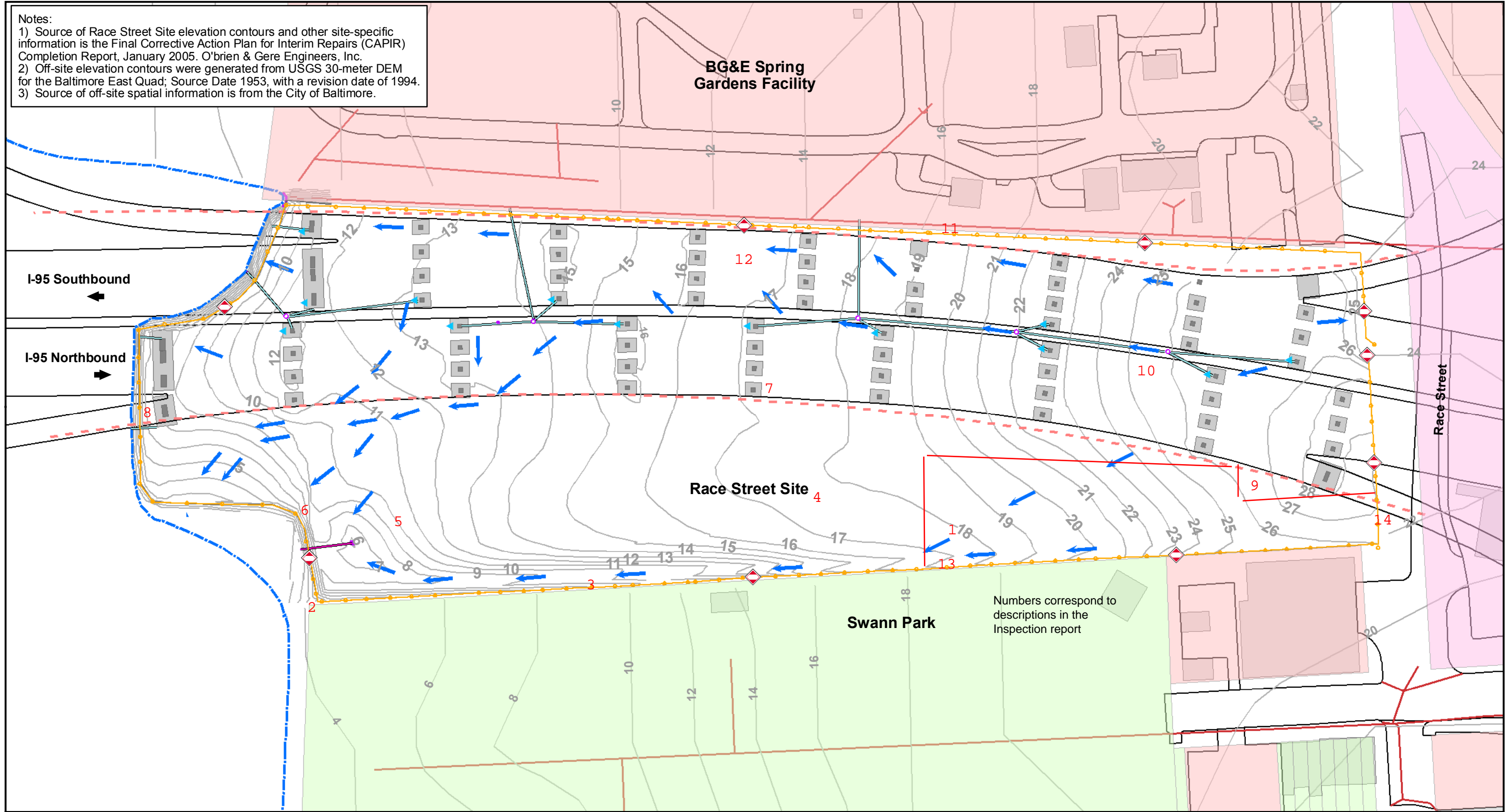
Inspector:	Kenneth Biles	Date of Inspection:	28-Jul-11
Title:	Assistant Project Manager	Date of Last Inspection:	23-Jun-11
Organization:	CH2M HILL	Weather:	Hot, Humid, Periods of Rain

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).	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)	4) Vegetation in cracks 7) Vegetation near pile cap	None	TBD	City performs vegetation control during ongoing 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)	9) 20'X20' Area with asphalt cracking		TBD	Asphalt repairs to be performed as part of ongoing 2011 O&M activities.
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)	5) Localized erosion at former boring location	None	TBD	Asphalt repair to be performed as part of scheduled 2011 drilling activities.
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) ~50' of cracks w/ vegetation 3) 25' of cracks ~1/2" wide 6) ~70' of cracks ~3/4" along slope ridge 11) 20' of cracking w/ vegetation	None	TBD	Asphalt repairs to be performed as part of ongoing 2011 O&M activities.
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	12) 15' X 10' - localized standing water	None	TBD	Asphalt repairs to be performed as part of ongoing 2011 O&M activities..
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	10) MW-14 bollad damaged	None	TBD	Well to be repaired during scheduled 2011 drilling activities.
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).	2) Temporary repair remains intact	None	NA	Section of fence was noted to be damaged during previous inspections and was repaired by the City.

**2000 Race Street
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
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	13) Gates between the parking area and the park are open. 14) Gates between Race Street and the parking area are damaged and are open.	City posted two signs at gates noting that the gates will be locked after sporting events.	TBD	Gate damaged by BGE vehicle; BGE to pay for gate repair
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	11) Vegetation in barbed wire	None	TBD	City performs vegetation control during ongoing 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	8) Down spout pipe leader disconnected	None	TBD	MDTA notified of need to reattach pipe leader.
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) onsite during site walk.			
Other Comments/Observations?	None			

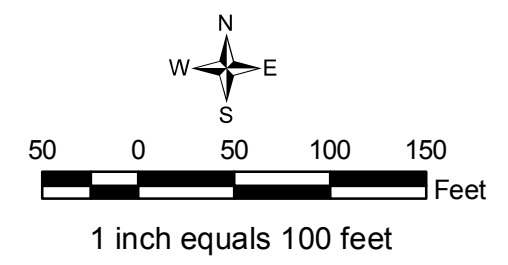
Notes:
 1) Source of Race Street Site elevation contours and other site-specific information is the Final Corrective Action Plan for Interim Repairs (CAPIR) Completion Report, January 2005. O'brien & Gere Engineers, Inc.
 2) Off-site elevation contours were generated from USGS 30-meter DEM for the Baltimore 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
- General Stormwater Flow Direction



Monthly Inspection Map
 Race Street Site
 Baltimore, MD
 July 28, 2011



**2000 Race Street
Monthly Site Inspection Checklist**

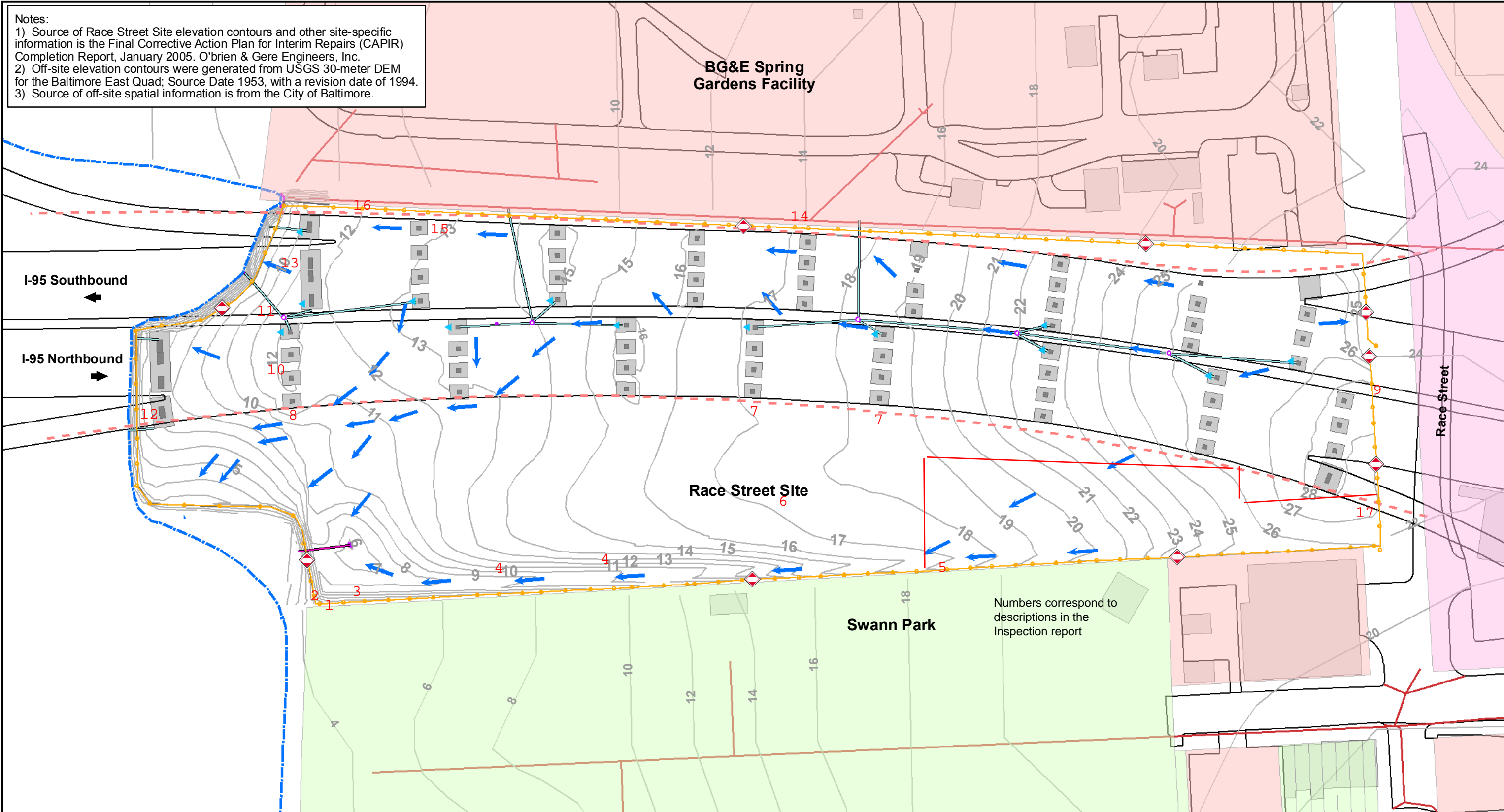
Inspector:	Kenneth Biles	Date of Inspection:	18-Aug-11
Title:	Assistant Project Manager	Date of Last Inspection:	28-Jul-11
Organization:	CH2M HILL	Weather:	Hot, Humid, Periods of Rain

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).	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)	4) Crack in asphalt with vegetation ~100' 6) vegetation in surface cracks 7) Vegetation along bridge piers pads	None	TBD	Asphalt repairs and vegetation control to be performed as part of ongoing 2011 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)	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).	11) Alligator cracks	None	TBD	Asphalt repairs to be performed as part of ongoing 2011 O&M activities.
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).	3) Cracks ~ 30' offset	None	TBD	Asphalt repairs to be performed as part of ongoing 2011 O&M activities
Inspect cap for any signs of ponding of water	None	None	NA	NA
Inspect shorefront embankment for evidence of erosion or releases	9) localized surface erosion near entrance gate 14) localized erosion of drainage feature	None	NA	Eroded areas to be addressed as part of 2011 O&M activities.
Identify any other observations related to the condition of the cap and potential for cap damage	8) Localized surface cracking 13) Soil stockpile 15) localized settlement	None	NA	(8) cracked asphalt and (15) localized settlement areas to be addressed as part of ongoing 2011 O&M activities
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).	1) Temporary fence repair remains intact	None	NA	Section of fence was noted to be damaged during previous inspections and repaired by the City.

**2000 Race Street
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
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	5) gates between Race Street and parking area is open; 17) Vehicle entrance gate to Race Street parking area is damaged	None	TBD	17) Gate damaged by BGE vehicle; BGE to pay for gate repair.
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	2) dead vegetation on fence	None	NA	City previously performed vegetation control activities at the site.
Inspect fence to determine if there is any burrowing beneath fence	16) ~6" diameter hole at edge of asphalt cap	None	NA	Localized erosion to repaired as part of ongoing 2011 O&M activities.
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	12) Drain leader detached	None	NA	MDTA notified of need to repair pipe leader.
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) onsite during site walk.			
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.
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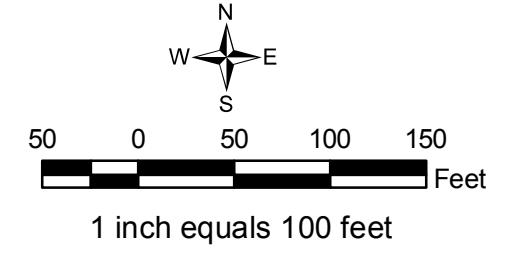
Numbers correspond to descriptions in the Inspection report

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

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



Monthly Inspection Map
 Race Street Site
 Baltimore, MD
 August 18, 2011



**2000 Race Street
Monthly Site Inspection Checklist**

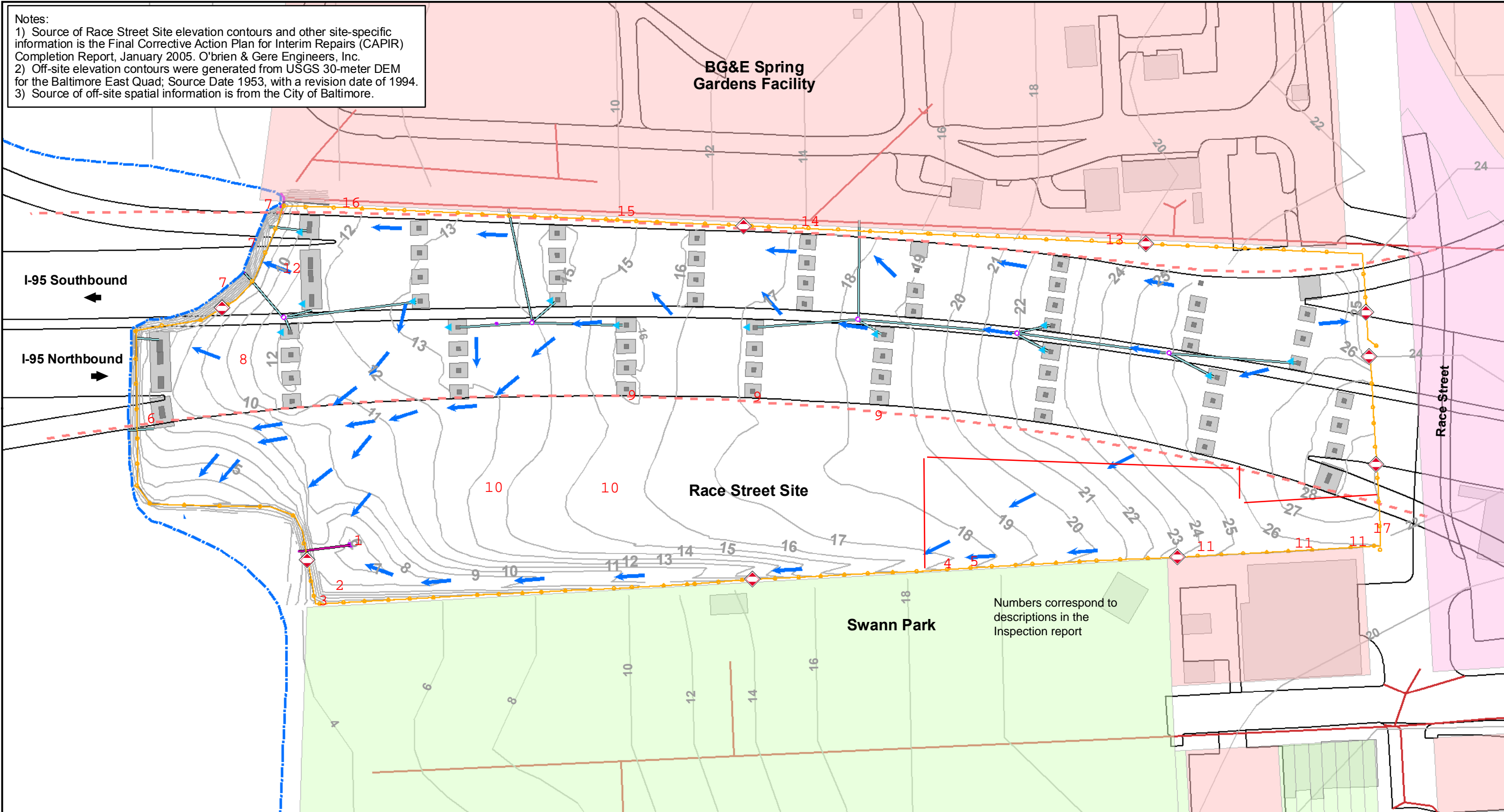
Inspector:	Kenneth Biles	Date of Inspection:	22-Sep-11
Title:	Assistant Project Manager	Date of Last Inspection:	18-Aug-11
Organization:	CH2M HILL	Weather:	Hot, Humid, Periods of Rain

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).	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)	9) Vegetation around pier base 10) Vegetation in asphalt cracks	None	TBD	Asphalt repairs to be performed as part of ongoing 2011 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)	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)	15) Asphalt damage/perimeter erosion	None	TBD	Asphalt repairs to be performed as part of ongoing 2011 O&M activities
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).	None	None	NA	NA
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 shoreline embankment for evidence of erosion or releases	3) Slight erosion along sea wall where Swan Park abuts site 14) Localized erosion	None	TBD	City to perform site O&M of park property.
Identify any other observations related to the condition of the cap and potential for cap damage	8) Damaged cap at former test pit location.	Repair work scheduled	TBD	Surface cover repair to be performed as part of field activities to be performed in November 2011.
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).	2) Temporary repair remains intact	None	NA	Section of fence was noted to be damaged during previous inspections and was repaired by the City.

**2000 Race Street
Monthly Site Inspection Checklist**

Site Inspection Results				
Task	Observations	Actions Taken	Date Completed	Comments/Additional Observations
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	4) Gate unlocked 5) Gate open 17) Vehicle entrance gate to Race Street parking area is damaged	City notified	TBD	17) Gate damaged by BGE vehicle; BGE to pay for gate repair.
Inspect fence to determine if any vegetation is damaging or otherwise compromising fence	11) Vegetation on fence 13) Vine on fence	None	TBD	City performs vegetation control as part of ongoing O&M activities.
Inspect fence to determine if there is any burrowing beneath fence	16) ~6" diameter hole at edge of asphalt cap	None	TBD	Localized erosion to repaired as part of ongoing 2011 site O&M activities.
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	6) Down spout pipe leader disconnected	None	TBD	MDTA notified of need to reattach pipe leader.
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) onsite during site walk.			
Other Comments/Observations?	1) Trash and debris at storm drain inlet 7) Petroleum sheen on surface water off-shore adjacent to Baltimore Gas and Electric (BGE) Spring Garden facility. 12) Soil pile			

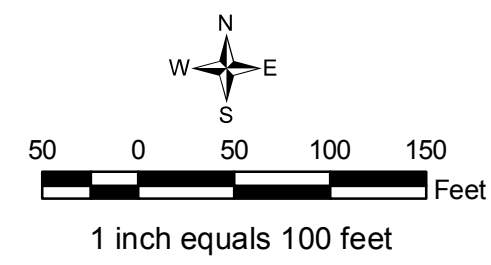
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- Fence/Approximate Property Boundary
- Elevation Contours (feet-MSL)
- Buildings
- ▲ Down Spouts
- Baltimore Stormwater Pipe
- Land Use**
- Commercial
- Exempt Commercial
- Industrial
- Residential
- Concrete Column
- Concrete Footer
- General Stormwater Flow Direction



Monthly Inspection Map
 Race Street Site
 Baltimore, MD
 September 22, 2011

