

NORTHROP GRUMMAN
Integrated Systems

Northrop Grumman Corporation
**Airborne Early Warning and
Electronic Warfare Systems**
600 Grumman Road West
Bethpage, NY 11714-3582

December 3, 2004
ESH&M-04L-112

Steven M. Scharf, P.E., Project Engineer
New York State Department of
Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action
625 Broadway
Albany, NY 12233-7015

Re: Closure Report
South Receiving Basin
Northrop Grumman Corporation
Bethpage, New York

Dear Mr. Scharf:

The purpose of this letter report is to document the remedial activities and formal closure of the South Receiving Basin (SRB) located at the Northrop Grumman Corporation (NGC) facility in Bethpage, New York. In addition, NGC requests that a letter of no further action be issued for the property.

Introduction

The South Receiving Basin is located along the southern portion of the NGC Bethpage Facility and is owned and operated by NGC. The SRB is approximately 140 feet by 140 feet and 15 feet deep. A single-story building, currently operated by the Long Island Rail Road, is located immediately north of the site. Surrounding property to the northwest, north and east is zoned industrial. Directly to the west and south along Route 107/Hicksville Road is an area of strip commercial zoning. Farther west is high-density residential zoning. Directly south of the site is also high-density residential zoning. A site location map is presented as Figure 1 in Attachment 1, and a site plan is provided as Figure 2 in Attachment 2. The topography of the site is generally level. Ground elevation is approximately 110 feet above mean sea level, with the depth to groundwater approximately 50 feet below grade.

Historically, treated and untreated industrial wastewater, storm water and treated groundwater were discharged to the SRB, which then conveyed flow to a series of

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recharge basins located to the east of the SRB. However, for the last 4 years, storm water discharges have bypassed the SRB and have instead been conveyed to the adjacent recharge basins. Immediately prior to closure, the SRB only received storm water in the form of direct precipitation. As a result, NGC decided to backfill and formally close the SRB in accordance with all applicable environmental regulations.

Remedial Investigation

Prior to undertaking closure activities, NGC conducted a Remedial Investigation (RI) of the SRB to determine if the media beneath the basin had been impacted. All work completed during the RI was conducted in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved document entitled, "Investigation Work Plan, South Receiving Basin, Revision 1," dated September 2002.

In a letter to the NYSDEC dated November 20, 2002, NGC presented a description of the field activities and the analytical results associated with the RI conducted at the SRB. Based on the results of the analytical sampling, the letter presented recommendations for backfilling and capping the basin and placing a deed restriction on the property.

The NYSDEC approved of the RI activities and recommendations in its letter dated March 13, 2003. Based on this approval, NGC proceeded with the backfill and closure of the SRB.

Closure of the SRB

In May 2004, NGC completed the backfill and formal closure of the SRB in a manner consistent with the closure of the adjacent receiving basin located to the west of the SRB. In support of closure, NGC removed the two ladders located within the SRB, sealed the influent and effluent pipes with concrete caps and then backfilled the SRB with clean bank-run sand. Following backfill, an engineered asphalt cap consisting of 6 inches of recycled concrete aggregate (RCA) and 2 inches of asphalt was installed over the entire SRB to prevent precipitation infiltration. Photographs documenting before and after shots of the SRB are presented in Attachment 3 of this letter.

In addition, as part of the formal closure of the SRB, a property deed restriction, as presented in Attachment 4 of this letter, will be filed with the County Clerk's office. The deed restriction limits future land use at the SRB to industrial/commercial and will

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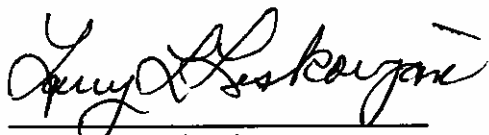
prohibit residential land uses that may involve: persons other than employees staying overnight; a hotel, nursing home or assisted living facility; or facilities involving children including a school, daycare facility or outdoor recreation. The deed restriction will also stipulate that the engineered asphalt cap shall be maintained and that the State agencies must be notified prior to future soil removal activities.

Once the NYSDEC approves the language of the deed restriction, the restriction will be filed with the County Clerk's office.

On the basis of the closure activities presented above, NGC is requesting a letter stating that no further action regarding the corrective action requirements pertaining to the SRB is necessary.

If you have any questions and/or comments, please do not hesitate to contact me at (516) 575-2333.

Very truly yours,

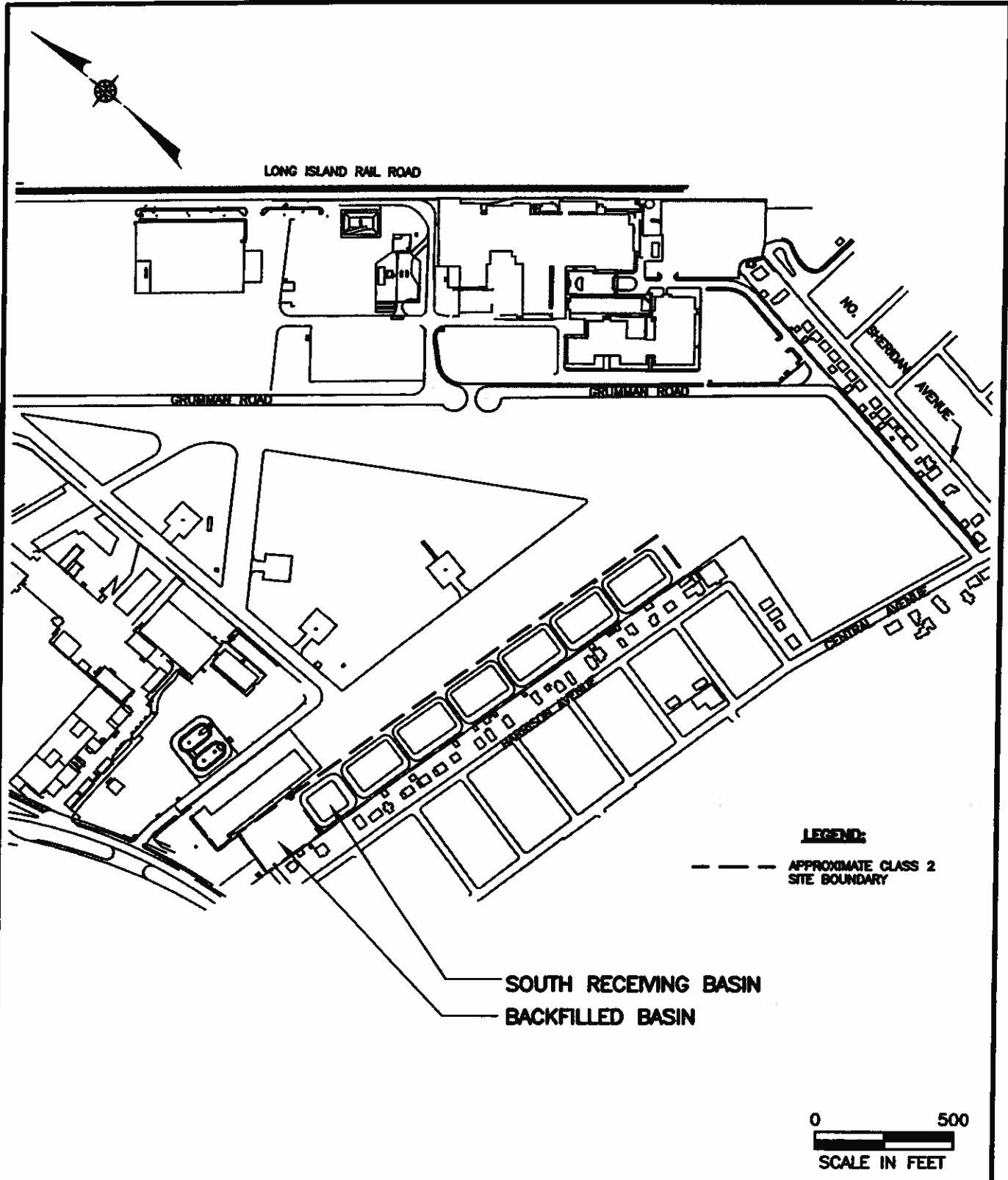


Larry L. Leskovjan
Manager
Environmental, Safety, Health & Medical

cc: J. Cofman (NGC)
F. Weber (NGC) ✓
B. Veith (D&B)
A. Gershonowitz
T. Sullivan (NGC)

ATTACHMENT 1

SITE LOCATION MAP



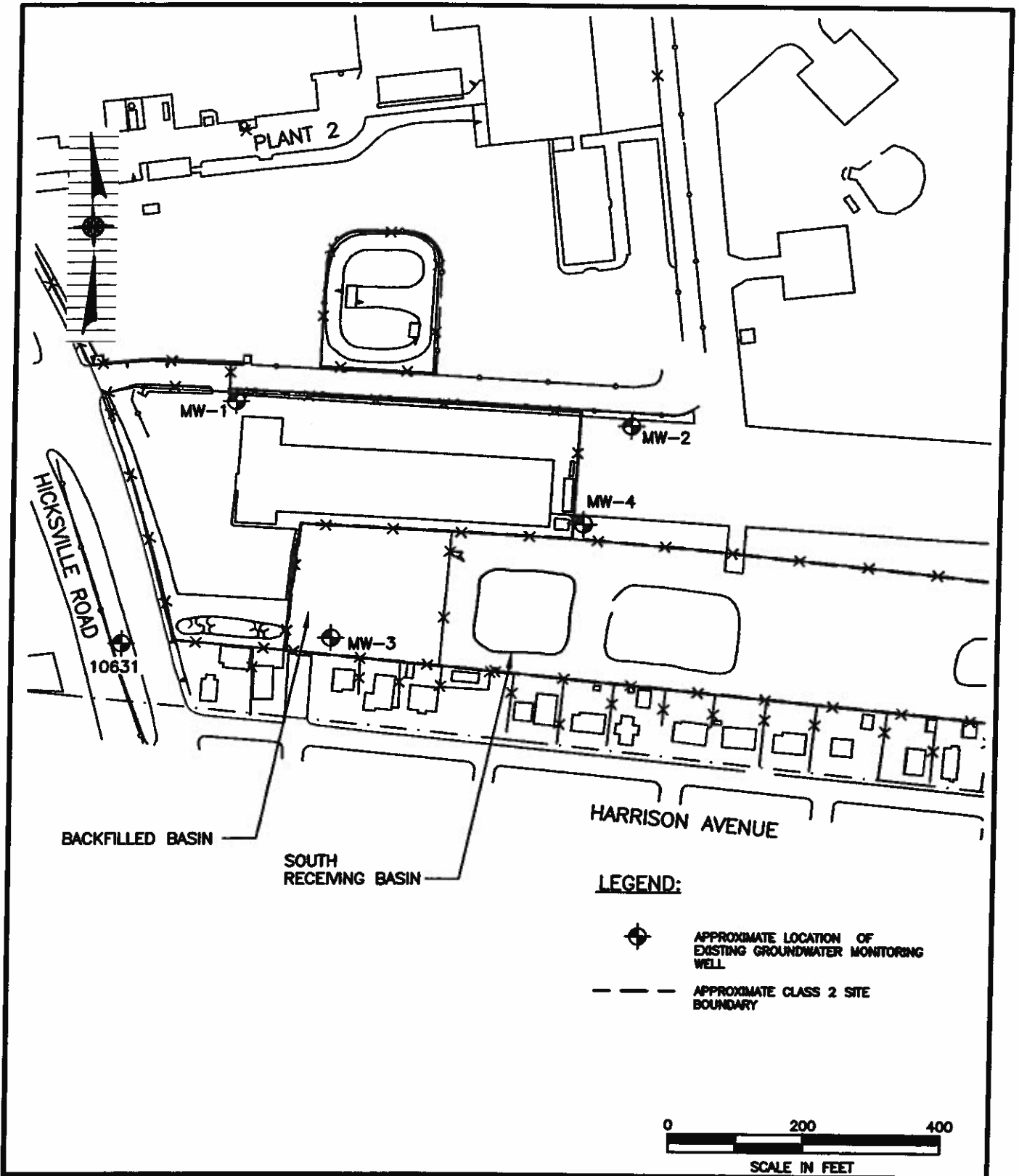
NORTHROP GRUMMAN CORPORATION
 BETHPAGE FACILITY
 SOUTH RECEIVING BASIN
SITE LOCATION MAP

db
Dvirka and Bartilucci
 CONSULTING ENGINEERS
 A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FIGURE 1

ATTACHMENT 2

SITE PLAN



NORTHROP GRUMMAN CORPORATION
 BETHPAGE FACILITY
 SOUTH RECEIVING BASIN

SITE PLAN

db Dvirka
 and
 Bartilucci
 CONSULTING ENGINEERS
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FIGURE 2

ATTACHMENT 3

SITE PHOTOGRAPHS

BEFORE



AFTER



BEFORE



AFTER



ATTACHMENT 4

PROPOSED DEED RESTRICTION

**NORTHROP GRUMMAN CORPORATION
SOUTH RECEIVING BASIN
PROPOSED DEED RESTRICTIONS**

1. **Notice:** A release of hazardous substances has occurred at the Property. Remedial activities were performed, and the New York State Department of Environmental Conservation ("NYSDEC") has issued a "No Further Action" letter. At the conclusion of the remedial activities, some hazardous substances remained at the site at concentrations that are above recommended soil cleanup guidelines for unrestricted use. Reports identifying the residual substances and their locations and concentrations are available.

2. **Use Restriction:** The Property shall not be used for uses that: (i) are or may be construed to be residential, or (ii) include persons other than employees staying overnight, including, without limitation, a hotel, nursing home or congregate care facility, or (iii) involve children, including, without limitation, a school, daycare facility or an outdoor recreational facility unless as otherwise approved by the NYSDEC in conjunction with the New York State and Nassau County Departments of Health. This restriction may be removed upon the recording of certification from NYSDEC (or its successor, if any) that there are no hazardous substances or constituents of concern at the Property at concentrations that exceed NYSDEC recommended cleanup levels.

3. **Subsurface Activities:** The hazardous substances referred to in paragraph "1," above, shall be covered with an engineered asphalt cap to prevent the soil beneath the cap from being exposed to rain and other conditions that might cause the release, spreading or leaching of hazardous substances. The owner shall maintain the cap by: (1) taking reasonable and prudent action to avoid causing or permitting the cap to be breached, damaged or destroyed such that the soil beneath the cap is exposed to conditions that may cause the release, spreading or leaching of hazardous substances; (2) promptly repairing or replacing with equivalent materials any portion of the cap that is breached, damaged or destroyed; and (3) consulting with an environmental engineer prior to any action that may affect the cap or soil beneath it. No excavation or other subsurface activities that may affect or involve the hazardous substances at the site should be performed without reviewing the reports, in consultation with the NYSDEC, that describe the hazardous substances and, if necessary, taking appropriate precautions to prevent employee/worker exposure to said hazardous substances. In the case of any soil removal, the soil should be sampled and disposed of in accordance with applicable law, based upon sampling results. The owner shall provide notice to the Regional Solid and Hazardous Materials Engineer, New York State Department of Environmental Conservation, Region One Office, SUNY - Building 40, Stony Brook, NY 11790, annually certifying that the institutional and/or engineering controls specified in the deed are being complied with. The owner shall be responsible for any environmental harm or costs resulting from the failure to comply with these institutional controls.