

BURK-KLEINPETER, INC.

MEMORANDUM

TO: Marnie Winter, Director JP Environmental, Bernard Wisnowski JP
Arborist, Michael Chopin, File
FROM: Lester Guarino
SUBJECT: Bucktown Harbor – Marsh Planting Project
PROJECT: BKI 7410-15
DATE: November 7, 2003

MARSH MONITORING (See addition of our April 4, 2006 report below)

Marsh Status

- ❑ August 2, 2003 - Marsh planting was completed by T-Beb Wetland Nursery, Herdis Neil owner, Cell (895)-790-5847, (895).804-5847 for Louisiana Landscape and Erosion Control, Inc. Johnny LaGrone (225) 637-3197. Brook Burmaster, Arborist Jefferson Parish Public Works Parkways 838-1150 inspected for JP.
- ❑ September 26, 2003 - Plants inspected looked healthy. Density of plants stable.
- ❑ October 6, 2003 - The tidal channel was cut. The location of the 20' wide tidal channel is set approximately 325' from the crown of the levee. Plants looked healthy and with new growth.
- ❑ Mid October - Plants inspected looked healthy with new growth. Some loss of individual plants apparent.
- ❑ November 6, 2003 - Plants inspected showed decline of overall density of plants. Many plants missing in the deeper water areas. High water storm conditions may have contributed to plant decline. Plants along edges of marsh are showing additional growth. Plants in water have less growth.

February 20, 2004 Inspection

- ❑ The marsh-plantings were inspected and photographed February 20, 2006. Many of the plants located in the lower areas of the marsh are missing. The fringe areas have good growth. The tidal flow drains the entire marsh at low tide with the exception of the area on the east edge of the marsh. This area is holding water above low tide, but serves to retain water for the birds.

April 4, 2006 Inspection

- ❑ The marsh plantings were inspected and photographed to document marsh recovery after hurricanes Katrina and Rita last Summer. See attached April 4, 2006 photographs. The lake tide was fairly low at the time of inspection exposing mud flats that are normally flooded.
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MEMORANDUM

Subject –Bucktown Harbor Marsh Monitoring Report

- ❑ The overall impacts of the hurricanes to the marsh plants and substrates at this point in time appears to be minimal. Loose vegetation had been washed out of the marsh by the storms and deposited onto the levee areas as a result of the storms. Some erosion took place, but new vegetation growth this spring has overgrown any bare spots.
- ❑ Marsh coverage of the *Spartina alterniflora* Smooth Cordgrass keeps increasing. The open water drainage areas have reduced in size as the *Spartina* spreads.
- ❑ Small tree saplings planted by Jefferson Parish on the higher areas of the site were not evident. New leaves were appearing on trees at this time. No small Bald Cypress trees were noted to have survived after walking throughout the high areas. Further inspections may reveal surviving trees.
- ❑ The marsh continues to attract Snip, Mallards and other shore birds.
- ❑ Additional piles of soil fill have been placed along the south edge of the marsh adjacent to the levee. The Jefferson Parish & the EJLD needs to check the location dirt piles to confirm that they do not exceed 125' from the center of the levee crown. Soil piles that are farther than 125' from the levee crown need to be pulled away from the marsh.

File name: Marsh Inspec 4-4-06 in 7410, 11, Mitigation.