

JOHN D. HYNES & ASSOCIATES, INC.

Geotechnical and Environmental Consultants
Monitoring Well Installation
Construction Inspection and Materials Testing

September 29, 2015

Perry Otwell, P.E. McCrone, Inc. 320 Pennsylvania Avenue Centreville, Maryland 21617

Re:

Report of Dredge Spoil Evaluation and Laboratory Testing Services

Kentmorr Marina Stevensville, Maryland Project No.: JDH-10/15/392

Dear Mr. Otwell:

John D. Hynes & Associates, Inc. completed the dredge spoil evaluation and laboratory testing services for the above referenced site. On or about August 19, 2015, McCrone, Inc. coordinated the collection of dredge spoil samples from three areas proposed for dredging at the Kentmorr Marina in Stevensville, Maryland. The dredge spoil samples was sent overnight to an EPA approved laboratory for Priority Pollutant total metals (EPA Method 6020), PCBs (EPA Method 8082) and oil and grease (EPA Method 1664) analysis for characterization of the dredge spoils.

Laboratory analytical reports showed no detectable concentrations of oil and grease or PCBs in any of the dredge spoil samples collected at the site. Detectable concentrations of arsenic and chromium were found in each of the dredge spoil samples collected. Arsenic ranged from 1.3 mg/kg to 1.4 mg/k in the three dredge spoil samples. Chromium ranged from 3.9 mg/kg to 4.0 mg/kg. No detectable concentrations of antimony, beryllium, cadmium, copper, lead, mercury, nickel, selenium, silver thallium or zinc were found in any of the dredge spoil samples collected.

The limited dredge spoil evaluation and laboratory testing services for the Kentmorr Marina property in Stevensville, Maryland showed that the dredge spoils do not appear to have been significantly impacted by the marina operation. Discussions with Maryland Department of the Environment officials indicate that the concentrations of arsenic and chromium in the dredge spoils appear to be below the MDE guideline thresholds for use as fill on nonresidential properties. The levels of arsenic and chromium in the dredge spoil samples appear to be approximately at the background concentrations for these metals in native soils in Eastern Maryland.

These consulting services are, of necessity, based on the concepts made available to us at the time of the writing of this report, and on-site conditions that existed at the time the samples were collected. These soil evaluation and analytical laboratory testing services were performed for the exclusive use of McCrone, Inc. and their agents. These services have been performed, our findings obtained and our recommendations prepared in accordance with generally accepted hydrogeologic and engineering principles and practices.



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John D. Hynes & Associates, Inc. appreciates the opportunity to be of assistance to you. If you have any questions regarding this report or if we may be of further assistance, please contact our office.

Respectfully,

JOHN D. HYNES & ASSOCIATES, INC.

ndrew J. Bullen

Senior Project Manager

AJB: JDH/jsl

John D. Hynes, P.E.

President