



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Ave SE • Bellevue, WA 98008-5452 • 425-649-7000
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Ecology Announcement

“Sampling and Analysis Results Memorandum for Kenmore Area Sediment and Water Characterization” by Anchor QEA - March 2013

The “Kenmore Area Sediment and Water Characterization Results Memorandum” presents the sampling results and laboratory documentation for the sediment and water samples collected from Lake Washington in November 2012. Anchor QEA prepared the Memorandum, dated March 2013. It is available for your review, including field measurements, laboratory data sheets, and a quality assurance report.

This project was sponsored by the City of Kenmore, in partnership with the Washington Department of Ecology, City of Lake Forest Park, and owners of North Lake Marina. Other property owners and Washington Department of Natural Resources provided access for sample collection. The sampling plan and study were designed in consultation with Ecology, Department of Health, and the Dredged Material Management Program (DMMP) with the US Army Corps of Engineers.

Paper copies may be reviewed at Kenmore City Hall, Kenmore library and the Lake Forest Park library at the library information desk. Paper copies also may be reviewed at Ecology’s Northwest Regional Office, by appointment: 425-649-7239. To request a paper copy from Ecology, which includes a copying fee, please call 425-649-7239.

The memorandum is available on line at:

<ftp://www.ecy.wa.gov/Kenmore%20Area%20Sediment%20&%20Water%20Characterization%20Results%20Memo%20by%20Anchor%20QEA%203-13-13/>

Ecology is preparing a draft Environmental Evaluation Report that will be available for public review and comment this spring. The Washington Department of Health is preparing a Health Consultation Report, which will also be available later this spring. When these documents are available, a public meeting will be scheduled to share them with the community.

SUMMARY OF RESULTS

The Memorandum reports that dioxin concentrations in the sediments and surface water in public access areas along northeast Lake Washington and the lower reaches of the Sammamish River



are within dioxin cleanup standards for sites on land. This includes Lyon Creek Park in Lake Forest Park, and Log Boom Park and Sammamish River boat launch area in Kenmore.

The sediment and water characterization results do not represent a risk to human health, aquatic life and the environment. Elevated concentrations of dioxins were detected at two nearby private marinas. The test results at the marinas show three or four chemicals at or above screening criteria. Ecology will meet with the marina owners to discuss dredging plans and next steps for further evaluation.

The Kenmore Navigation Channel results show three chemicals above DMMP screening level one. Note these screening results are for planning to evaluate options for disposal of the dredge solids and further testing will be part of the dredge application process.

Sediment Management Standards for Freshwater criteria for dioxin/furans are not available at this time. The Navigation Channel dioxin sediment concentration ranged from 1.6 to 10.1 TEQ parts per trillion (Toxicity Equivalency value) and the median is 4.6 TEQ parts per trillion. For general comparison, the state soil cleanup level is 11 parts per trillion and although soil is a different medium compared to sediment, all the Navigation Channel sediment results are below the dioxin soil cleanup level. The Navigation Channel sediment results show that the Channel would not be classified as polluted and all chemicals tested are below the Freshwater Cleanup Screening Level (CSL).

Likewise, the Lakepointe aka Kenmore Industrial Park (KIP) site sediment results showed no contamination in the sediment adjacent to the KIP site, at the north, west, or south waterfront. All sediments tested adjacent to the site are very low detection and significantly below the Freshwater Cleanup Screening Level. So the KIP site is not the source of any sediment contamination.

Dioxin for the 30 overall sediment sample results range from 0.25 to 71.0 TEQ parts per trillion and the median is 3.1 TEQ parts per trillion. The state soil cleanup standard for dioxin is 11 parts per trillion. Six of the study's samples were above 10 parts per trillion and 80 percent of the samples were below 10 parts per trillion and below the state soil cleanup standard for dioxin.

The source or sources of dioxin in this area are unknown at this time. The dioxin results suggest that this chemical does not originate from the Kenmore Navigation Channel, the Lakepointe aka Kenmore Industrial Park site, nor the Sammamish River, due to the low concentrations encountered at these locations. These results also suggest that the source of dioxin is not ongoing and continuous, and may have been a historic release. More testing will be necessary to identify the dioxin source or sources. Ecology will follow up on possible future testing when funds become available.

The study provided an important and successful step in the screening process, and the results indicate no significant environmental or health issue. Additional evaluations are recommended for the sediments beneath the two private marinas.

March 21, 2013