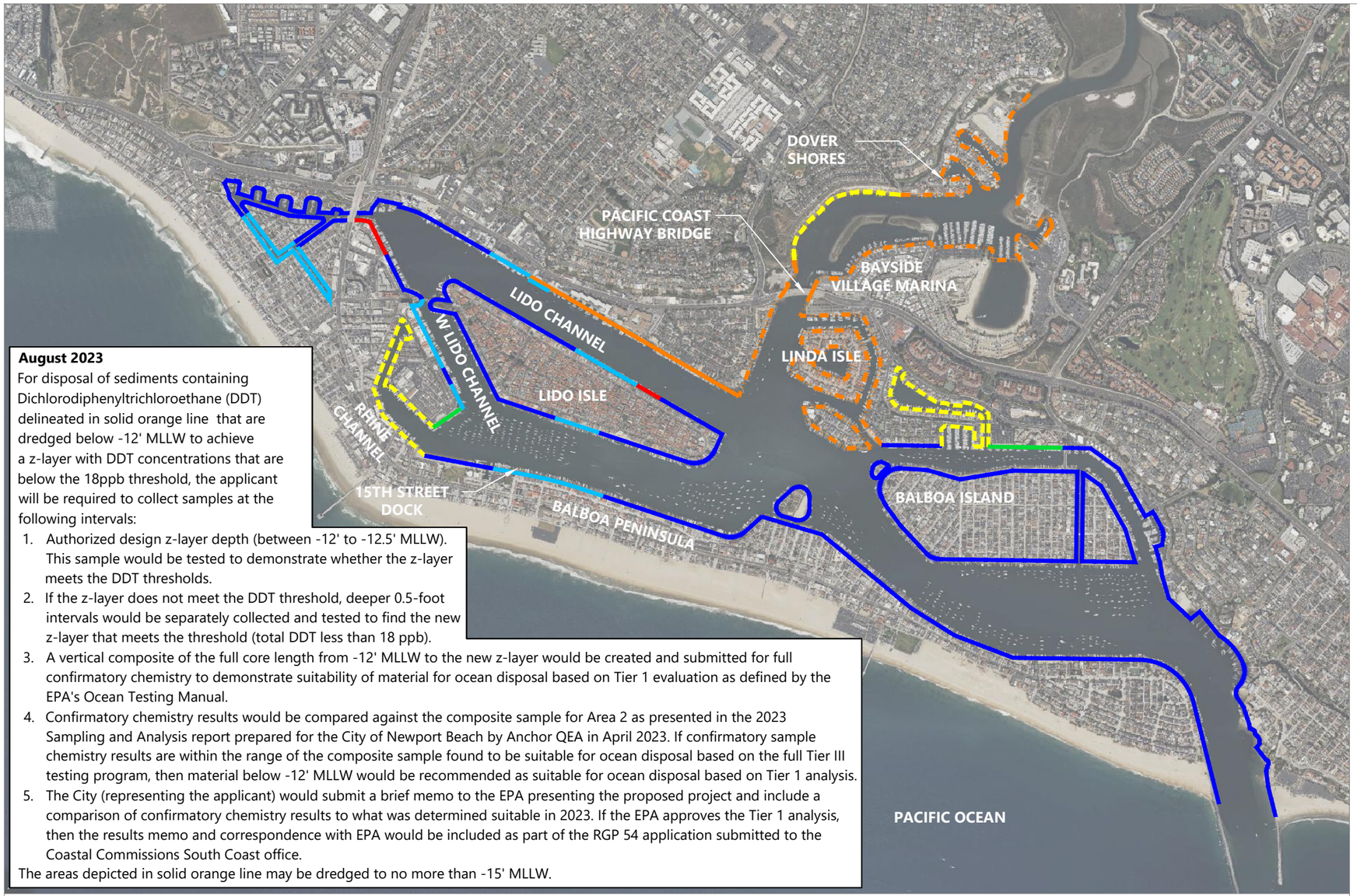

August 2023
For disposal of sediments containing Dichlorodiphenyltrichloroethane (DDT) delineated in solid orange line that are dredged below -12' MLLW to achieve a z-layer with DDT concentrations that are below the 18ppb threshold, the applicant will be required to collect samples at the following intervals:

1. Authorized design z-layer depth (between -12' to -12.5' MLLW). This sample would be tested to demonstrate whether the z-layer meets the DDT thresholds.
2. If the z-layer does not meet the DDT threshold, deeper 0.5-foot intervals would be separately collected and tested to find the new z-layer that meets the threshold (total DDT less than 18 ppb).
3. A vertical composite of the full core length from -12' MLLW to the new z-layer would be created and submitted for full confirmatory chemistry to demonstrate suitability of material for ocean disposal based on Tier 1 evaluation as defined by the EPA's Ocean Testing Manual.
4. Confirmatory chemistry results would be compared against the composite sample for Area 2 as presented in the 2023 Sampling and Analysis report prepared for the City of Newport Beach by Anchor QEA in April 2023. If confirmatory sample chemistry results are within the range of the composite sample found to be suitable for ocean disposal based on the full Tier III testing program, then material below -12' MLLW would be recommended as suitable for ocean disposal based on Tier 1 analysis.
5. The City (representing the applicant) would submit a brief memo to the EPA presenting the proposed project and include a comparison of confirmatory chemistry results to what was determined suitable in 2023. If the EPA approves the Tier 1 analysis, then the results memo and correspondence with EPA would be included as part of the RGP 54 application submitted to the Coastal Commissions South Coast office.

The areas depicted in solid orange line may be dredged to no more than -15' MLLW.

SOURCE: Aerial from Bing maps. Coastline extents from City of Newport Beach.
HORIZONTAL DATUM: California State Plane, Zone 6, NAD83.
VERTICAL DATUM: Mean Lower Low Water (MLLW).

NOTE:
Areas included in RGP 54 are generally between the bulkhead and pierhead lines with the shoreline/boundary demarcated by the various colors/hatched lines. The colored lines, whether solid or dashed, always follow the shoreline rather than following individual fingers or docks. ODMDS: Ocean Dredged Material Disposal Site. ppm: parts per million.

LEGEND:

- Suitable to -10 feet MLLW plus 2 feet of overdepth for unrestricted disposal at the LA-3 ODMDS. Grain size required prior to beach replenishment or nearshore placement to demonstrate suitability.
- Suitable to -10 feet MLLW plus 2 feet of overdepth for unrestricted disposal at the LA-3 ODMDS. Material proposed for beach replenishment or nearshore placement must have grain size verification and chemical testing for DDTs with agency concurrence to verify suitability prior to placement. Z-layer testing is required to confirm post-dredge surface contains DDT concentrations less than 18.0 ppb*
- Material to -7 feet MLLW plus 1 foot of overdepth proposed for disposal at LA-3 ODMDS must have chemical testing for mercury with agency concurrence to verify suitability prior to disposal. Z-layer testing is required to confirm post-dredge surface contains mercury less than 1 ppm prior to dredging to demonstrate newly exposed surface is clean. Material proposed for beach replenishment or nearshore placement must also have grain size verification prior to placement.
- Area not included under RGP 54.
- Material to -10 feet MLLW plus 2 feet of overdepth proposed for disposal at LA-3 ODMDS must have chemical testing for mercury with agency concurrence to verify suitability prior to disposal. Z-layer testing is required to confirm post-dredge surface contains mercury less than 1 ppm prior to dredging to demonstrate newly exposed surface is clean. Material proposed for beach replenishment or nearshore placement must also have grain size verification prior to placement.
- Material to -10 feet MLLW plus 2 feet of overdepth proposed for disposal at LA-3 ODMDS must have chemical testing for mercury and PCBs with agency concurrence to verify suitability prior to disposal. Z-layer testing is required to confirm post-dredge surface contains mercury less than 1 ppm and PCBs less than 100 ppb prior to dredging to demonstrate newly exposed surface is clean. Material proposed for beach replenishment or nearshore placement must also have grain size verification prior to placement.
- Suitable to -15 feet MLLW plus 2 feet of overdepth for unrestricted disposal at the LA-3 ODMDS. Material proposed for beach replenishment or nearshore placement must have grain size verification and chemical testing for DDTs with agency concurrence to verify suitability prior to placement. Z-layer testing is required to confirm post-dredge surface contains DDT concentrations less than 18.0 ppb*.

*Represents the 95% Upper Confidence Limit for surface sediment concentrations within the RGP permit area.

0 2000
Feet

Publish Date: 2023/08/07 12:36 PM | User: jfoster
Filepath: K:\Projects\0243-City of Newport Beach\RGP 54\0243 RPG-RP-024 RGP 54 SAR.dwg Figure 8

ANCHOR QEA

2023 RGP 54 Boundaries
RGP 54 Sediment Characterization