2017 AEP State Conference

Hydroacoustics 101:

How It Works, Why It Matters, and What To Do With It In CEQA

wra ENVIRONMENTAL CONSULTANTS

ILLINGWORTH & RODKIN, INC. Acoustics • Air Quality

Panelists

***Keith Pommerenck**, Acoustical and Air Quality Scientist with Illingworth & Rodkin, Inc.*

***Daniel Chase**, Fisheries Biologist with WRA, Inc.*

***Justin Semion**, Aquatic Ecologist with WRA, Inc.*

Panelist Change - Keith Pommerenck

Mr. Pommerenck provides consulting services in the area environmental noise and air quality issues with over 33 years of professional experience (21 years with Caltrans and 12 years with Illingworth and Rodkin) in preparing technical air, noise, and vibration reports for inclusion in CEQA and NEPA environmental documents for transportation projects. Mr. Pommerenck led numerous hydroacoustic field investigations for bridge construction projects. He was the field leader for the Ten Mile River Bridge project that included several months of acoustic measurements and compliance reporting. Mr. Pommerenck's expertise was routinely relied upon for solutions to reduce underwater sound when construction activities were in jeopardy of exceeding permit underwater noise conditions. Mr. Pommerenck also led Illingworth & Rodkin's hydroacoustic monitoring efforts on other notable projects that included the Humboldt Bay Bridges Seismic Retrofit, Mad River Bridge replacement, the Klamath River Bridge emergency repair (during salmon migration), Test Pile portion and the construction portion of the Explosive Handling Wharf 2 project for the navy and several other smaller projects in California, Oregon, and Washington. Mr. Pommerenck has also assisted transportation agencies in assessing sound impacts to wildlife in marine environments (both airborne and underwater).

Panel Overview

History of Hydroacoustic Analysis

Technical Specification of Underwater Sound

Biological Effects of Underwater Sound

Regulatory Application of Hydroacoustic Impacts

CEQA Application of Hydroacoustic Impact Evaluation

Questions