

# Carolyn Huynh

## Project Scientist



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### Education and Credentials

M.S., Environmental Science, State University of New York College of Environmental Science and Forestry, Syracuse, New York, 2014

B.A., Biology, Seattle University, Seattle, Washington, 2012

### Continuing Education and Training

Hazardous Waste Operations and Emergency Response 40-Hour Certification (2013; with annual refreshers)

First Aid and CPR Certified (2017)

## Professional Profile

Ms. Carolyn Huynh is a scientist with experience in remediation and site assessments. Ms. Huynh provides technical support for human health and ecological risk assessments for a variety of chemicals of concern and has extensive experience conducting environmental sampling including collecting sediment, soil, groundwater, surface water, and biota samples. In addition, Ms. Huynh provides planning and permitting support for National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) related projects.

## Relevant Experience

### Risk Assessment and Remediation

*Analytical Laboratory Services Coordinator, New York*—Proficient in aspects of the EPA Region 2 Contract Laboratory Program and Scribe software application required by EPA for sample chain-of-custody reporting. Coordinated with laboratories to facilitate procurement of analytical services, responded to inquiries from laboratories and resolved sampling and analytical issues, and maintained and tracked sampling and analytical requirements.

*Groundwater Contamination Site, Cabo Rojo, Puerto Rico*—Provided human health and ecological risk assessment for groundwater at a Cabo Rojo site consisting of several potential source areas with two identified groundwater plumes. Contaminants of potential concern included tetrachloroethene, trichloroethene, *cis*-1,2-dichloroethene, vinyl chloride, 1,1-dichloroethene, and 1,4-dioxane in groundwater, sediment, surface water, and soil.

*Mansfield Trail Dump, Byram, New Jersey*—Provided human health and ecological risk assessment for a site consisting of former waste disposal trenches located on wooded, undeveloped properties, and associated groundwater contamination extending into an adjacent residential neighborhood. Analyzed historical and current data from soil, groundwater, sediment, and surface water. Contaminants of potential concern included VOCs, SVOCs, PCBs, PAHs, and metals.



***Construction Debris Landfill, Wallops Island, Virginia***—Assisted with the development of an addendum to an existing screening level ecological risk assessment (SLERA) to determine if there were additional risks to ecological receptors due to additional potential contaminants of concern or higher concentrations of existing contaminants of concern. Reviewed existing SLERA data and additional sediment and surface water data, created the conceptual site model, and researched sediment screening levels for dioxin/furan congeners.

***Phase I and II Assessments at Multiple Abandoned and Redevelopment Sites, New York, New Jersey, and Pennsylvania***—Managed and led Phase I and Phase II environmental site assessment projects. Researched 130 years of data from various records and reports including GeoTracker and Environmental Database Review to develop thorough analyses of environmental impacts to client properties. Documented findings in well organized and comprehensive Phase I and Phase II environmental assessment reports to further assess recognized environmental conditions and guided clients in evaluating next steps for purchasing, selling, or financing properties in New York, New Jersey, and Pennsylvania.

## **Planning**

***Strategic Buyout and Relocation Services Program, Minot, North Dakota***—Assisted with preparing broad and site-specific environmental assessments for residential properties under the Community Development Block Grant, National Disaster Resilience fund. The program aimed to relocate residents out of low-lying areas, vulnerable to flooding so that the city could implement flood control measures, including a flood levee system.

***Environmental Impact Statement/Report (EIS/R) for the Yolo Bypass Salmonid Habitat Restoration and Fish Passage, Sacramento, California***—Developed a joint EIS/R for a project that was developed to improve fish passage and increase floodplain fisheries rearing habitat in the Yolo Bypass and lower Sacramento Basin. The lead agencies were the U.S. Bureau of Reclamation and the California Department of Water Resources. NEPA/CEQA regulations were interpreted for state and federal laws, rules, and regulations to evaluate applicable environmental and planning issues for the Population and Housing and Visual Resources sections.

***EIS/R for the B.F. Sisk Dam, Safety of Dams Modification Project, Los Banos and Gilroy, California***—Developed a joint EIS/R for the B.F. Sisk Dam Safety project to address dam stability and safety concerns. The lead agencies (U.S. Bureau of Reclamation and California Department of Water Resources) were concerned with several sections of the B.F. Sisk Dam and select foundation materials upon which the dam was built in the event of seismic activity. NEPA/CEQA regulations were interpreted for state and federal laws, rules, and regulations to evaluate applicable environmental and planning issues for the Indian Trust Assets, Environmental Justice, and Public Utilities sections.

***EIS/R for the Long-Term Recapture and Recirculation of Restoration Flows, San Joaquin Valley, California***—Developed a joint EIS/R for the Long-Term Recapture and Recirculation of Restoration Flows project, a project managed under the San Joaquin River Restoration Project, which proposes



the development and implementation of a long-term plan for recirculation, recapture, reuse, exchange, or transfer of restoration flows.

**Regional Habitat Guidance, Washington and Oregon**— Assisted in the update of the Community Rating System for Habitat Protection Document and the National Floodplain Insurance Program (NFIP) Habitat Assessment Guidebook. These regional documents strive to assist communities in meeting the requirements and criteria of the Endangered Species Act in regard to the NFIP. Reviewed the Washington and Oregon biological opinions and ordinances to incorporate policy changes and to make these documents applicable for communities in both states.

## **Publications**

DeLeo, P., C. Huynh, M. Pattanayek, K. Clark Schmid, and N. Pechacek. 2020. Assessment of ecological hazards and environmental fate of disinfectant quaternary ammonium compounds. *Ecotox. Environ. Safe*. doi.org/10.1016/j.ecoenv.2020.111116

Hall, C., F. Knickmeyer, A. Wiegman, A. Brainard, C. Huynh, and J. Mead. 2018. A class exercise for Systems Ecology: Synthesis of stream energetics and testing Allen's paradox. *Ecological Modeling* 369:42-65.

Huynh, C.K., S.R. Poquette, W.L. Whitlow. 2014. Pyrethroid pesticide effects of aquatic invertebrate behavioral responses to danger cues. *Environ. Sci. Pollut. Res.* 21:5211-5216.

## **Presentations/Posters**

DeLeo, P., M. Pattanayek, Y. Atalay, C. Huynh, and N. Pechacek. 2020. Assessment of ecological hazards and environmental fate of disinfectant quaternary ammonium surfactants. SETAC SciCon, SETAC Europe 30th Annual Meeting (Online). May 3–7.

