

CIA TEAM

INFRASTRUCTURE

PRESERVATION

NJDOT – Bob Signora

FHWA – John Miller

Collaborative Hydraulics: Advancing to the Next Generation of Engineering (CHANGE)

Purpose: Improve the understanding of complex interactions between river or coastal environments and transportation assets

Benefits:

- *enabling better design*
- *enhanced communication*
- *more efficient project delivery*

Status:

- *H&H unit attended SRH 2D North East Peer Exchange Review in NH*
- *H&H staff presented overview of Peer Exchange Review to Geotech staff and made them aware about the current practices for SRH 2D*



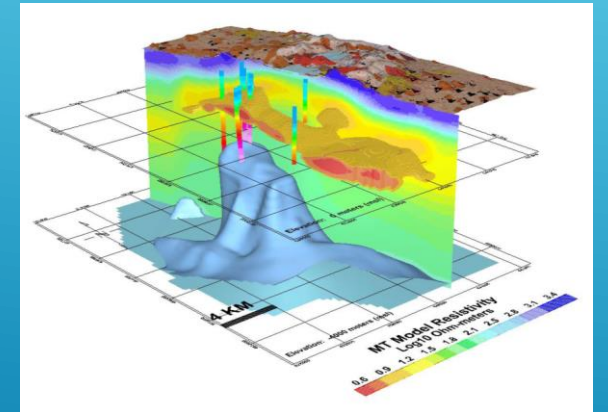
EDC – 5

Advanced Geotechnical Exploration Methods (The A-Game)

Purpose: To explore new innovative technologies for enhancing the subsurface exploration program

Benefits:

- Reduce uncertainties in subsurface conditions
- Mitigates design and construction risks
- Improve Quality and accelerate Project Delivery



Status:

- NJDOT Bridges & Structures Design Manual is still in the Revision Stage
- New innovative technologies for enhancing the subsurface exploration program are incorporated into the DRAFT version of the new Design Manual

Project Bundling

Purpose: To continue to explore new methods of project bundling

Benefits:

- *Streamlines design, contracting, and construction*
- *Capitalize on economies of scale to increase efficiency*
- *Greater collaboration during project delivery and construction*



Status:

- *NJDOT expects to solicit proposals in January 2020 for a bundle of two Delaware & Raritan Canal bridge replacement projects.*
- *NJDOT will also be soliciting proposals for a single D&R Canal bridge replacement project, which will provide data to compare costs and demonstrate the benefits of bundling.*