



# California GIS Council Workgroup Report

## Workgroup: National Hydrography Dataset (NHD)

Workgroup page\*: <http://cgia.org/cagiscouncil/workgroups/hydrography/>

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Report Date:

September 12, 2019

\*See the workgroup page for workgroup charter, members, contact information, and prior reports.

### Requests for Council Action

None at this time

### Status Update

Members of the NHD workgroup regularly interact as part of the ongoing work of the California Department of Water Resources (DWR) NHD Stewardship Program. (Stand-alone CA GIS Council NHD Workgroup meetings have not been held.)

DWR hosted an NHD Stewardship Special Interest Group meeting at the Esri User Conference on July 10, 2019. Esri staff attended to share plans to beta-release a network tracing tool for ArcGIS Pro in early 2020. This tool is intended to provide a replacement for the functionality of the geometric network and Utility Network Analyst toolbar in ArcMap. We do not yet know how the NHD might need to be altered for use in ArcGIS Pro, but we have been assured that Esri is working with USGS on this matter. Other attendees at this meeting shared ideas with the Esri staff for future enhancements of these tools.

DWR's partners at California State University-Chico (CSU-C) and California State University-Northridge (CSU-N) continue to make progress on updating the 1:24,000 scale NHD while USGS works on bringing the 1:24,000 scale NHD data into NHDPlus. NHDPlus High Resolution has been released in beta for all hydrologic subregions (HU4) in California except Sacramento, San Joaquin, and Tulare-Buena Vista Lakes. These remaining subregions are expected to be released in beta sometime in early 2020, at which time DWR will participate in the QC review of the dataset. More information on NHDPlus may be found at <https://www.usgs.gov/core-science-systems/ngp/national-hydrography/nhdplus-high-resolution>.

The stewardship program was able to assist the City of Pleasanton by correcting several errors that was brought to our attention. Their staff provided stormwater drain data that gave us a much better understanding of the surface and subsurface drainage in their city.

We are working with representatives of the Golden Gate Parks Conservancy, the County of Marin, and others who are interested in incorporating hydrography derived from a new (2019) countywide LiDAR collected as part of the 3DEP program into the NHD.

Errors in the NHD may be brought to the attention of DWR and USGS using USGS' Markup Application: <https://www.usgs.gov/core-science-systems/ngp/national-hydrography/tools#Markup> or by contacting Jane directly.

### Legislative/Policy Update

The Memorandum of Understanding between DWR and USGS has been approved by DWR and is still in USGS internal review.

### Action

Finalize MOU (awaiting action by USGS)

### Key Date

open

Continue NHD Update work	ongoing
Formalize pilot projects	Fall 2019

### Notes

Organizations can participate in California's NHD Stewardship Program by contributing reference datasets and/or becoming NHD editors. Contact Jane at [jane.schafer-kramer@water.ca.gov](mailto:jane.schafer-kramer@water.ca.gov) or at 916-653-4441 for additional information. Any questions on NHD stewardship in California may also be directed to Jane. The California NHD Stewardship Program website is: <http://www.water.ca.gov/waterdatalibrary/NHD/index.cfm>

### Documents and Attachments

None for this quarter