

## California Water Quality Monitoring Council

### Data Management Workgroup Notes

Thurs, May 3, 2018 — 1:00pm to 4:00pm

Department of Water Resources, Room 119  
3500 Industrial Blvd #131  
West Sacramento, CA 95691



### IMPORTANT INFORMATION!

Conference Web Conferencing information is provided on the last page of this agenda.

For security purposes, all visitors are required to sign in at the entry of the building.

For information and resources concerning this meeting, we welcome you to visit the Data Management Workgroup collaboration site: <http://sfei.li/dmwg>

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| <b>ITEM: #</b>         | <b>1</b>   | <b>Approx.Time:</b>   |
| <b>Title of Topic:</b> | <b>Introductions, announcements, agenda review, and minutes approval</b>   | 5 mins  |
| <b>Purpose:</b>        | Decision: Share information and review materials.  |   |
| <b>Contact Person:</b> | Gary Darling<br>Tony Hale  | <a href="mailto:gary.darling@water.ca.gov">gary.darling@water.ca.gov</a><br><a href="mailto:tonyh@sfei.org">tonyh@sfei.org</a> , (510) 746-7381 |
| <b>Notes:</b>          | <i>Attending:</i> John Franco, Dorian Bellan, Scott Navarro, Kris Jones, Nicole Sears, Steve Goldman, Brendan Palmer, Tad Slawewski, Jarma Bennett, Gina Benigno, Nicole Hack, David Harris, Gary Darling, Tony Hale |   |

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| <b>ITEM: #</b>         | <b>2</b>   | <b>Approx.Time:</b> |
| <b>Title of Topic:</b> | <b>AB 1755 Developments</b>  | 40 mins             |
| <b>Purpose:</b>        | Information and coordination: The DMWG and CWQMC leadership have been coordinating with the AB 1755 implementation team to help identify obstacles, opportunities, and best practices. With the release of the progress report, along with more insights into the initiative's planned direction, we can continue to offer ourselves as resources to the implementation cause. |                     |
| <b>Background:</b>     | In September 2016, the legislation AB 1755 passed into law. It mandates that DWR, in close consultation with the Monitoring Council among other entities, implement a data-sharing platform to promote sound decisions about water-related data – both water supply and water quality – throughout California.   |                     |

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|                         | <p>Since its September passage, the Act has received a great deal of attention and support from public, private, non-profit, and academic data providers and users. Our workgroup has been involved in the process for developing key resources. Soon to be released for public review are the “protocols” and “strategic plan” drafts, which we will discuss.</p> <p>We will also provide updates on some developments that have taken place recently regarding the formulation of an Open Water Information Architecture document and several other related publications.</p>  |  |
| <b>Contact Person:</b>  | Gary Darling   | <a href="mailto:gary.darling@water.ca.gov">gary.darling@water.ca.gov</a> |
| <b>Attachment Link:</b> | AB 1755: <a href="https://www.water.ca.gov/Programs/All-Programs/AB-1755">https://www.water.ca.gov/Programs/All-Programs/AB-1755</a>   |  |
| <b>Notes:</b>           | <p>Regarding AB155, Gary Darling and David Harris shared an optimistic view of the progress made. There are not the usual obstacles that bureaucracies face, in the current situation. There is, instead, broad cooperation and agreement on the concepts informing a data sharing platform. “The path is more sure,” said David Harris.</p> <p>The coordinating entities – DWR, SWRCB, DFW, and the monitoring Council – are cultivating not just the datasets but the problem sets. The key decisions to benefit from the data are at the forefront, so the problems are preceding the technical solution, which is a stronger and more logical order of things.</p> <p>The CNRA Open Data Portal is leading the way currently favored by DWR. It requires robust metadata to be submitted, and therefore encourages strong data stewardship. Federation is at the forefront of the architecture for the new portal. It is designed to be a one-stop shop for water. Harvesting data from current water data partners has been faster and easier than anticipated.</p> <p>Gary answered the question: how do we federate with ENGOs? Fewer use cases is better than more to help focus the issues. The team is focused primarily on the Sustainable Groundwater Management Act now.</p> <p>When asked to elaborate on the role of the Open Water Information Architecture document, Gary described it as a long-term guide. It cannot necessarily be used as a “Bible” to guide external development, but it will be routinely consulted as a living document.</p> <p>Kris Jones shared that there have been meetings involving representatives from the WQMC and AB1755 implementation group to identify short-term goals and the establishment of roles.</p> |  |

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| <b>ITEM: #</b>         | <b>3</b>  | <b>Approx.Time:</b> |
| <b>Title of Topic:</b> | <b>Nutria are among us</b>  | 30 mins             |
| <b>Purpose:</b>        | Information and coordination: The State of California has declared an emergency following the discovery of nutria in Stanislaus, Merced, Fresno, and Tuolumne counties on Fed, State, and private land. Under these |                     |

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|                          | <p>conditions, the CDFW's Nutria Eradication Program is considering various detection mechanisms, with clear implications for advanced data management needs.</p>   |  |
| <b>Background:</b>       | <p>Since the nutria can devastate the local ecology and harm water quality directly and indirectly, the state is considering different detection and eradication methods. Ideas include the ambitious use of Unmanned Aerial Systems, looking for the creatures, their burrows, or signs of their destructive behavior.</p> <p>Gary Darling will discuss the need for an emergency response mode of operations regarding this environmental threat and how the Data Management Workgroup might advise on useful resources.</p> <p>This is an opportunity to leverage some of the thinking advanced under AB 1755 to identify use cases and construct technical solutions to address them.</p> |  |
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| <b>Desired Outcome:</b>  | <p>Everyone should share the same understanding of the current state of the efforts in various quarters.</p>  |  |
| <b>Attachment Links:</b> | <ul style="list-style-type: none"> <li>• <a href="https://www.wildlife.ca.gov/Conservation/Invasives/Species/Nutria/Infestation">https://www.wildlife.ca.gov/Conservation/Invasives/Species/Nutria/Infestation</a></li> <li>• <a href="#">Nutria presentation at the April 4 Environmental Coordination Committee meeting</a></li> </ul>  |  |
| <b>Contact Person:</b>   | Gary Darling  | <a href="mailto:gary.darling@water.ca.gov">gary.darling@water.ca.gov</a> |
| <b>Notes:</b>            | <p>Gary Darling brought our attention to a problem currently plaguing his department and the California Central Valley.</p>   |  |

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| <b>ITEM: #</b>          | <b>4</b>   | <b>Approx.Time:</b>   |
| <b>Title of Topic:</b>  | <b>Flash Round! 5-minute updates on topics related to the workgroup</b>  | 40 mins   |
| <b>Purpose:</b>         | <p>Informational: What is happening in the community? Examples might include progress updates on portal development efforts, potential connections to related projects, upcoming presentations and conferences, and new innovations we should assess.</p>                              |   |
| <b>Desired Outcome:</b> | <p>Information and planning: This item allows for anyone to contribute news about developments that haven't been covered earlier in the meeting. We are looking for news related to water quality, ecosystem health, and data management. Please confine your update to 5 minutes.</p> |   |
| <b>Contact Person:</b>  | Tony Hale  | <a href="mailto:tonyh@sfei.org">tonyh@sfei.org</a> , (510) 746-7381 |

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| <b>ITEM: #</b>          | <b>5</b>   |  | <b>Approx.Time:</b> |
| <b>Title of Topic:</b>  | <b>Data Science Interns</b>  |  | 15 mins             |
| <b>Purpose:</b>         | Information: The Office of Information Management and Analysis in the State Water Resources Control Board has solicited data science interns from universities who might help to advance your project.   |  |                     |
| <b>Background:</b>      | <p>Nick Martorano describes the opportunity as follows:</p> <p>“Greg Gearheart and I have been exploring the possibility of getting a few data science interns/volunteers from qualified universities across the nation. We have had an overwhelming response and need help narrowing the candidate pool by establishing a list of projects for them to work on. We are looking for a clear definition of the project, the skills needed to accomplish the project, other desirable qualifications, and who would sponsor the project (i.e. who would help supervise the intern and the work toward the project.</p> <p>“We imagine the internships to be relatively short, think summer type project and it’s important to note that the interns can work a maximum of 20-25 hours.</p> <p>“If a project is larger or more long term that’s ok too because we can either expand the internship time frame or break the project up into smaller deliverable packages that can be passed on to the next cohort.</p> <p>“If you could please get back to myself and CC Nicole Hack, OIMA’s newest Sea Grant fellow who is helping with this effort.”</p> |  |                     |
| <b>Desired Outcome:</b> | Solicit project ideas that might be addressed through intern labor capacity.   |  |                     |
| <b>Contact Person:</b>  | Nicholas Martorano   | <a href="mailto:nicholas.martorano@waterboards.ca.gov">nicholas.martorano@waterboards.ca.gov</a> |                     |

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| <b>ITEM: #</b>         | <b>6</b>  |  | <b>Approx.Time:</b> |
| <b>Title of Topic:</b> | <b>Updates on Data Management Plans and Digital Object Identifiers</b>  |  | 40 mins             |
| <b>Purpose:</b>        | <p>Coordination: Advances by the Interagency Ecological Program’s Data Utilization Workgroup (DUWG) offers the DMWG an opportunity to amplify their efforts to promote best practices.</p> <p>With the increasing focus on data management focus under AB 1755, the DMWG also can influence how DOIs and DMPs might be broadly implemented by public programs.</p> <p>This agenda item will address ongoing challenges to broader adoption.</p> |  |                     |
| <b>Background:</b>     | The DMWG advised the DUWG two years ago on data management plans (DMPs) and digital object identifiers (DOIs). Since then, the DUWG has advanced the concept to the point of templates and testing.   |  |                     |

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|                        | Both concepts can potentially help to advance not only the IEP's datasets but also the integrity of water data at large. DMPs are on the verge of implementation, but some questions about them still remain. Meanwhile, DOIs are already identified in DWR's Open Water Information Architecture, guiding aspects of AB 1755 implementation. Therefore, prudent consideration of the obstacles to implementation would be time well spent. |   |
| <b>Contact Person:</b> | Tony Hale   | <a href="mailto:tonyh@sfei.org">tonyh@sfei.org</a> , (510) 746-7381 |

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| <b>ITEM: #</b>          | <b>7</b>  | <b>Approx.Time:</b>  |
| <b>Title of Topic:</b>  | <b>Next meeting and items to agendize</b>   | 10 minutes   |
| <b>Purpose:</b>         | Identify topics and responsibilities for inclusion in our next workgroup meeting.             |  |
| <b>Background:</b>      | Previously the DMWG selected the 1 <sup>st</sup> Thursday of odd months for its meeting time. |  |
| <b>Desired Outcome:</b> | Agendize topics for next meeting as appropriate.  |  |
| <b>Contact Person:</b>  | Tony Hale<br>Gary Darling   | <a href="mailto:tonyh@sfei.org">tonyh@sfei.org</a> , (510) 746-7381<br><a href="mailto:gary.darling@water.ca.gov">gary.darling@water.ca.gov</a> , (916) 651-9207 |

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Meeting information  
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CONFERENCE DETAILS

Conference Title: Data Management Workgroup

Date: Thursday, May 3, 2018

Time: 1:00 PM Pacific

Join the meeting: <https://join.me/sfei-conf-ei1>

To dial in by phone:

United States - Camden, DE

1.302.202.5900

United States - Los Angeles, CA

1.213.226.1066

United States - San Francisco, CA

1.415.594.5500

Conference ID:

684-834-965 #