

California Water Quality Monitoring Council
Data Management Workgroup Meeting Notes
Feb 1, 2017 — 1:00pm to 4:00pm

Conference Room 230
 Joe Serna Jr. Cal/EPA Headquarters Building
 1001 I Street, Sacramento, CA



ITEM: #	1		Approx. Time:
Title of Topic:	Introductions, announcements, agenda review, and minutes approval		5 mins
Purpose:	Decision: Share information and review materials.		
Attachment Link:	Meeting Notes: Sept 7, 2016: http://www.mywaterquality.ca.gov/monitoring_council/data_management_work_group/docs/2016/dmwg_notes_20160907.pdf Nov 2, 2016: http://www.mywaterquality.ca.gov/monitoring_council/data_management_work_group/docs/2016/dmwg_notes_161102.pdf		
Contact Person:	Gary Darling Tony Hale	gary.darling@water.ca.gov tonyh@sfei.org , (510) 746-7381	
Notes:	Attendees: In Person: <ul style="list-style-type: none"> • Vanessa Adame (SWRCB) • Shakoora Azimi-Gaylon (DSC) • Dori Bellan (SWRCB) • Jarma Bennett (SWRCB) • Gary Darling (DWR) • Andrea Graffis (DFW) • Christina Grosso (SFEI) • Tony Hale (SFEI) • David Harris (CNRA) • George Isaac (DSP) • Kris Jones (CWQMC) • Rachael Pisor (DWR) • Dave Osti (34 North) On the phones: <ul style="list-style-type: none"> • Paul Frank (Flow West) • Steve Steinburg (SCCWRP) • Michelle Mattson (DOT) • Vanessa Tobias (DFW) <p>The minutes for the November 2016 were approved.</p>		

ITEM: #	2		Approx.Time:
Title of Topic:	AB 1755 Updates and Developments		60 mins
Purpose:	Information: The Steering Committee of the DMWG is seeking a role in advancing the mandate of AB 1755, The Open and Transparent Water Data Act. There are ways that the DMWG itself can help and advise. We will share the emerging ideas.		
Background:	<p>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.</p> <p>Since its September passage, the Act has been parsed by a number of the agencies named in the legislation, as well as organizations not named, each looking for a clear way to advance the spirit and letter of the Act.</p> <p>We will provide updates on some developments that have taken place recently regarding preliminary decisions for legal and technological implementation strategies.</p> <p>Many open questions remain, but swift progress is the mandate of the legislation and the goal of the agencies.</p>		
Desired Outcome:	Everyone should share the same understanding of the current state of the efforts in various quarters.		
Attachment Link:	Assembly Bill No. 1755: https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160A:B1755		
Contact Person:	Tony Hale	tonyh@sfei.org , (510) 746-7381	
Notes:	<p>Gary Darling (DWR) provided a presentation regarding the background and scope of AB 1755, the Open and Transparent Water Data Act. He then led a discussion regarding the potential path forward for that effort, partnering with the</p> <p>During the upcoming months, DWR will be partnering with the California Council on Science and Technology to host a series of workshops to support efforts relevant to AB 1755, the Open and Transparent Water Data Act. The goal of these workshops is to assess 1) who needs; 2) what data; 3) in what form; 4) to make what decisions for California water and related environmental management. These meetings also seek to define key attributes of a comprehensive water data and information system—a system that is capable of supporting a range of water-management decisions. Ultimately, these workshops are intended to help inform DWR's efforts to develop the protocols and strategy required under AB 1755 (due January 1, 2018). While the use cases won't encompass all of the management</p>		

	<p>questions or datasets relevant to the AB 1755 effort, the expectation is that they will provide a well-rounded representation to guide these efforts.</p> <p>Following the discussion, Gary indicated that DWR is working to identify a data platform that will be able to meet the needs of the AB 1755 effort, including the ability to serve as a federated system. They are currently considering using the platform data.ca.gov, and are exploring its functionality.</p>
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ITEM: #	3	Approx.Time:
Title of Topic:	Steering Committee Meeting Review	30 mins
Purpose:	Information and decision: Review steering committee meeting notes and shape the new DMWG charter that might clarify the relationship between the DMWG and its steering committee.	
Background:	<p>The Steering Committee met on Dec 16, 2016 with representation from several divisions of DWR, SWRCB, Delta Stewardship Council (Delta Science Program), and DFW. Each group demonstrated their support for continued discussion and planning to promote more effective data sharing.</p> <p>In the course of the meeting, the members discussed a role for the DMWG in testing use cases associated with the Open Data Platform. We will discuss the implications of this proposed effort.</p> <p>Furthermore, we will consider changes to the DMWG charter.</p>	
Desired Outcome:	After this meeting, we should have an improved focus on how we might productively interact with the assembled Steering Committee and the assignments it has offered to us.	
Attachment Link:	<p>Delta Stewardship Council, Environmental Data Summit white paper, Enhancing the Vision for Managing California's Environmental Information</p> <p>Steering committee meeting notes:</p> <p>Revised charter:</p>	
Contact Person:	Tony Hale	tonyh@sfei.org , (510) 746-7381
Notes:	<p>Tony Hale (SFEI) provided a brief introduction to the Steering Committee for Data Management. He indicated that the Steering Committee reviewed the fact sheets that were developed by the Data Management Workgroup, and found them useful. They agreed that they would help to create a common language among data management professionals and agency scientists. They suggested that the group use these documents more broadly in their outreach.</p> <p>Tony also indicated that the Steering Committee proposed developing use</p>	

	<p>cases to help guide the efforts of AB 1755 (see Item 2). During the meeting, Tony was tasked to work with Rainer Hoenicke (DSP) to identify several options for use cases, and present those options to the Co-Chairs of the Data Management Workgroup and Steering Committee members at the next Steering Committee meeting.</p> <p>Given the recent shifts in focus for the Data Management Workgroup (DMWG), as well as the addition of the Steering Committee, Tony recommended that the group revisit the Charter. Tony asked whether the Steering Committee should be included in the Data Management Workgroup Charter or have their own. Kris Jones (CWQMC) suggested that the DMWG should likely provide in their Charter, details regarding their relationship with the Steering Committee. He also felt that the Steering committee should have their own Charter, which focuses more on their goals and purpose. No one else had any thoughts or suggestions.</p>
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ITEM: #	4	Approx.Time:
Title of Topic:	Presentation on Digital Object Identifiers	45 mins
Purpose:	Information exchange with federal partners regarding the application and valuation of digital object identifiers in the age of “open data.”	
Background:	<p>Digital object identifiers (or DOIs) are persistent and reliably unique markers of digital content. They appear on books, articles, and other publications. However, they are also associated with individual datasets.</p> <p>As we enter the world of “open data” among state agencies, DOIs may become a major concern. They are not technically complex or challenging to understand. (They are, after all, just ID numbers, similar to an SSN or a driver’s license number.) However, if we do not apply DOIs to existing and new datasets, then we run the risk of losing track of the <i>provenance</i> of our data as they migrate from system to system and derivative analysis to analysis. So this is about attribution, duplication prevention, chain of custody, and data stewardship. The last thing we want is for duplicate data to shape the outcome of a key decision.</p> <p>If we are not careful, in other words, we might look back at this moment as not the time that data became much more transparent, but rather it could be the watershed moment when data integrity was severely compromised.</p> <p>In this discussion, we will define DOIs and share ideas for their routine integration into our current and future data repositories.</p>	
Desired Outcome:	Learn how our efforts to develop data sharing protocols might benefit from a deeper understanding of digital object identifiers.	

Contact Person:	Tony Hale, SFEI	tonyh@sfei.org
Notes:	<p>Tony Hale presented on the topic of Digital Object Identifiers (DOIs). Following his presentation, Jarma Bennett asked whether Tony was proposing that groups, like grant holders be responsible for obtaining the DOI. How would the State of California best implement these recommendations? Tony suggested that the agencies should have an account, where individual users would request DOIs as needed. Others asked for clarification for the level of data that would be assigned a DOI. Would it be at the project level? George Isaac (DSP) indicated that his understanding was that the DOIs are usually at the individual data level (a unique identifier), so that even different versions of the same data have different DOIs.</p>	

ITEM: #	5	Approx.Time:
Title of Topic:	Subcommittee Factsheets and Appendices	15 mins
Purpose:	Information: Briefly review drafts of Fact Sheets to receive any requested revisions	
Background:	<p>For the past year, three Data Management Workgroup subcommittees have been preparing informational products designed to fill information gaps left by the “Vision Document” that is seeking to advance data sharing by and among the state agencies. Those subcommittees were charged with defining and describing the value of the following instruments/technologies:</p> <ul style="list-style-type: none"> a. Data management plans b. Web services c. Data federation d. Open Data <p>The work generated a number of materials and drafts, with each culminating in a brief Fact Sheet: https://drive.google.com/open?id=0B50RAGKbBDBCbkRidmxqLWo1REU</p> <p>During this year, these concepts have been presented to the Interagency Ecological Program’s Data Utilization Workgroup, California Estuaries Monitoring Workgroup, the Delta Stewardship Council, and the California Water Quality Monitoring Council who each expressed considerable interest in fostering further advancement of the concepts.</p> <p>The Steering Committee has had an opportunity to review the Fact Sheets.</p>	
Desired Outcome:	We should incorporate any proposed revisions into the Fact Sheets.	

Attachment Link:	Delta Stewardship Council, Environmental Data Summit white paper, Enhancing the Vision for Managing California's Environmental Information	
Contact Person:	Tony Hale	tonyh@sfei.org , (510) 746-7381
Notes:	Tony Hale briefly introduced the fact sheets and the topics they covered. None of the attendees requested revisions.	

ITEM: #	6	Approx.Time:
Title of Topic:	Flash Round! 5-minute updates on topics related to the workgroup	20 mins
Purpose:	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.	
Desired Outcome:	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.	
Contact Person:	Tony Hale	tonyh@sfei.org , (510) 746-7381
Notes:	<ul style="list-style-type: none"> Christina Grosso (SFEI) indicated that the data from the regional data center is now available via CEDEN. Dori Bellan (SWRCB) informed the group that the Groundwater Ambient Monitoring Assessment Program (GAMA) recently updated and simplified their interface for accessing data. She indicated that there were updates to the website, and that much more spatial data is now available. Vanessa Tobias (DFW) provided an update on the IEP Data Utilization Workgroup (DUWG). She indicated that the group was finalizing a template for Data Management Plans, which is currently undergoing internal review. 	

ITEM: #	7	Approx.Time:
Title of Topic:	Next meeting and items to agendize	10 minutes
Purpose:	Identify topics and responsibilities for inclusion in our next workgroup meeting.	
Background:	Previously the DMWG selected the 1 st Wednesday of odd months for its meeting time.	

Desired Outcome:	Agendize topics for next meeting as appropriate.	
Contact Person:	Tony Hale Gary Darling	tonyh@sfei.org , (510) 746-7381 gary.darling@water.ca.gov , (916) 651-9207
Notes:	Multiple attendees asked about having a follow up item and update regarding the AB 1755 effort. Specifically, an item that would address what role the DMWG could play to support the Open and Transparent Water Data Act. No other items were suggested.	