Utah Lake Water Quality Study
Steering Committee Call #7
Call Summary
November 17, 2020

This document includes a list of future meetings, action items, and a brief summary of the discussions. Please review the action item list for tasks assigned to you and/or the Steering Committee in general. A list of attendees can be found at the end of the document.

Upcoming Meeting/Call	When & Where	Suggested Agenda Items
SC Call #8	*Monday, Nov. 30; Zoom*	○ Seek approval of MG Table to share with Utah Lake Commission

I. Action Items

Meeting Summaries	Who	Due Date	Date Completed
1. Share draft Meeting Summary	Facilitation Team	November 23	November 23
2. Review and share comments on summary	SC members	December 2	
3. Finalize summary and post to Dropbox	Facilitation Team	December 3	
SC Management Goals	**Who**	**Due Date**	**Date Completed**
4. Submit thoughts on what information should be conveyed in the "Executive Summary" to the ULC	SC members	November 19	No submissions
5. Share proposed language to address issues of shorebird habitat in the MG Table	Heidi H.	November 19	
6. Develop draft "Executive Summary" and any modifications to the SC MG Table for SC member review	Co-chairs	November 23	
SP Response to SC Questions on MG	**Who**	**Due Date**	**Date Completed**
7. Submit comments/questions for SP related to their responses to SC management goals questions	SC members	December 4	

8. Research and share thoughts with SC on questions raised including the methodology of surface/scum sampling, role of soil – Mitch H.; TBD (pending SP discussions)	Mitch H.	TBD (*pending SP discussions*)	

II. Decisions/Approvals

This section provides an overview of decisions made by the Steering Committee during the call; related key discussion points can be found below in the document. There were no formal decisions made during this call.

III. Meeting Recording

A link to the webinar recording can be found here:
https://www.youtube.com/watch?v=bexcfDrGbnU&feature=youtu.be

IV. Key Discussion Points

Report out on Science Panel Efforts to Respond to Steering Committee Management Goals Questions:

- Dr. Mitch Hogsett, Science Panel Chair, went over the list of management goals questions from the Steering Committee to the Science Panel and the response table document developed by the Science Panel in response to questions 1, 2 (a, b, c, d), 3, 4, and 5)
    - He explained the Science Panel had made significant progress toward answering questions 2e and 2f, however they ultimately deciding to hold off on providing answers and instead identified some specific next steps and additional information to consider prior to responding.
    - Dr. Hogsett stressed that questions 2e and 2f are fundamental to the greater ULWQS and require additional data (from the data analysis report, bioassay study) analysis to inform a response.

- Mr. De Morgan then called on each of the members of the Steering Committee to voice their reactions to the Science Panel response.
    - Overall, the Steering Committee members expressed their appreciation for the Science Pane's efforts and the value of the response document.
    - Substantive comments provided included:
        - There is a need to further discuss how to incorporate Science Panel suggestions for additional measures;
        - There should be acknowledgement of open mudflats as habitat for shorebirds;
        - The extinction coefficient of light in the water column is species-specific for macrophytes;
        - With the aim of obtaining recreational survey data, surrogate information may be available from the Utah State Parks;
        - Will end points be developed based on algal scum samples collected from the lake?
        - How do the other ongoing studies relate to the effort to develop management goals?

        - Are fish directly related to nutrients? The main concern with fish may be the accumulation of toxins such as PCBs.
    - Building on the discussions, the group indicated the overall intent of the effort is to identify measures that can be used in the Utah Lake model to compare current conditions and future conditions (different scenarios) as nutrient targets cannot be set based on current conditions only.
    - Additionally, it was clarified that the goal is to identify multiple future scenarios with costs/benefits considered for those criteria that are not already established.

Sharing Information with the Utah Lake Commission:

- Mr. De Morgan then asked the members of the Steering Committee to consider what information they feel should be shared with the Utah Lake Commission.
    - While a suggestion was made to separate the measures out into primary and secondary measures. several members of the Steering Committee indicated they felt it would be premature to do this. The group did recognize some modifications to the Management Goals table might be necessary (e.g., related to mudflats as a goal) and agreed to review any revisions on their next call.

- Another suggestion was made for the Co-chairs to draft an executive summary that would introduce the management goals table and specifically highlight the intent of the goals document at this time, outstanding questions/challenges to be addressed, and what was being asked of the Utah Lake Commission.
    - The Steering Committee expressed their support for development of a draft for Steering Committee review prior to sharing with the Utah Lake Commission.

V. Public Comment

- David Richards (in the chat box): Somewhere in the Table: Carp densities not related to nutrients? I submit that carp densities are directly and indirectly affected by nutrients. For example, increased nutrients increase primary production, which increase secondary production, which increases carp densities and biomass. Maybe one of the fisheries scientists on Steering Committee can support or refute my basic understanding of Utah Lake's food web.

- Leland Myers: I like what one of the Committee members said: keep it real. Look at whether goals are achievable. Look at all sources.

- LaVere Merritt: Pleased we have mounting information on the lake and from the individuals studying the lake. Information we continue to develop indicates that P in the lake is controlled by internal cycling. So P in the lake is controlled by internal cycling and not lake loading. If we look at in-lake concentrations it would be impossible to feed this from external loading. We need to consider that these efforts could be immaterial.

VI. Participation

Members of the Steering Committee:

- Scott Bird, Utah County Stormwater Association – Stormwater
- Craig Bostock, Utah County Health Department – Public Health [*Alternate*]
- Gary Calder, Provo City – Municipal
- Chris Cline, U.S. Fish and Wildlife Service – Fish and Wildlife [*Alternate*]
- Eric Ellis, Utah Lake Commission – Co-Chair
- Erica Gaddis, Utah Division of Water Quality – Co-Chair
- Heidi Hoven, National Audubon Society – Conservation and Environment
- Christopher Keleher, UDNR – Rec, Fishing, Sovereign Lands
- Rich Mickelson, Timpanogos Special Service District – POTW
- Jay Olsen, Utah Department of Agriculture and Food – Agriculture
- Dennis Shiozawa, Brigham Young University – Academia
- Garrett Smith, Utah Lake Water Ski Association – Recreation
- Brad Stapley, Springville City - Municipal
- Jesse Stewart, Utah Lake Water Users Association – Ag/Water Rights/Water Users
- Neal Winterton, City of Orem – Municipal
- Gerard Yates, Central Utah Water Conservancy District – Water Management

Alternate Members of the Steering Committee:

- David Barlow, Timpanogos Special Service District – POTW
- Juan Garrido, Lindon City, Municipal
- Dave Norman, Lehi City – Municipal
- Mike Rau, Central Utah Water Conservancy District – Water Management of Utah Lake

Members of the ULWQS Science Panel

- Mitch Hogsett, Forsgren Associates, ULWQS Science Panel Chair

Members of the Public:

- KM-Ski (unknown)
- LaVere Merritt
- Leland Myers
- Renn Lambert
- David Richards

Utah Division of Water Quality Staff:

- Scott Daly
- Jodi Gardberg

Tetra Tech

- Michael Paul
- Kateri Salk

Facilitation Team:

- Paul De Morgan, RESOLVE
- Dave Epstein, SWCA