

WILLARD SPUR SCIENCE PANEL MEETING (OCTOBER 28, 2015)

Date: Wednesday, October 28, 2015
Meeting time: 8:00am – 4:00pm MDT
Location: Red Rocks Room, 3rd Floor, UDEQ Building
 195 North 1950 West, Salt Lake City, Utah

MEETING OBJECTIVE

Review conditions observed during the study period and form a consensus on an answer to the question:
What are the potential impacts of the Perry Willard Regional Wastewater Treatment Plant on Willard Spur?

MEETING AGENDA

1. Welcome and review of goals for meeting 8:00am

What is the current condition of Willard Spur?

2. Summary of hydrology and nutrient loading, 2011-2013 8:15am
Note: Please review draft reports: [Hydrology Assessment of Willard Spur, Great Salt Lake, 2011-2013 & External Nutrient Loads to Willard Spur, Great Salt Lake, 2011-2013](#)

- a. What are the key hydrologic regimes to consider?
- b. What was the Plant's relative nutrient load contribution during the study? How might that change in the future?

3. Summary of the food web 8:45am
Note: Please review reports: <http://www.willardspur.utah.gov/research/sciencedocs.htm>
 a. What can we conclude about bird and fish use, macroinvertebrates, and vegetation?

4. Summary of open water characteristics, 2011-2013 9:00am
Note: Please review draft report: [2011-2013 Ambient Conditions from Baseline Monitoring of the Willard Spur](#)
 a. What changes were observed in water chemistry, SAV, and macroinvertebrates?
 b. Are the turbid, clear, and green water phases important to the analysis?
 c. Are any of the observed changes of concern?
 d. Can we identify and define a critical condition from the open water data?
 e. Can we identify the biological endpoints most sensitive to nutrient inputs from the dataset?

5. Break 10:00am

6. Summary of nutrient cycling in Willard Spur, 2011-2013 10:15am
Note: Please review the reports: [Willard Spur Nutrient Cycling, Oct 2014 & Nutrient Uptake in the Willard Spur](#)
 a. How might we describe the nutrient cycling process in Willard Spur? How does it change during different phases?
 b. What are the key drivers and responses in this ecosystem?
 c. What is the assimilative capacity of Willard Spur and how did it change? How does it compare to observed external loading to Willard Spur?
 d. Can we identify, confirm, and/or define a critical condition from this data?

Does Willard Spur currently support its beneficial uses?

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| 7. Discussion | 11:30am |
| a. What are the current beneficial uses? | |
| b. What can we say about the current condition of Willard Spur? | |
| c. Is Willard Spur currently supporting its beneficial uses? | |
| d. What factors could have the most influence on its current condition? | |
| 8. Break for lunch | 12:00pm |
| 9. Working lunch | 12:15-1:00pm |
| a. Continued discussion of the above questions. | |

Did the Plant's effluent discharge degrade the Willard Spur ecosystem?

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| 10. Discussion | 1:00pm |
| a. What impacts were observed in the ecosystem from the Plant's discharge during the study period? What did we observe system wide? Local to the discharge? | |
| b. What do the results from the UofU's experiment tell us about potential impacts and thresholds? | |
| c. What do the results from DWQ's pelagic bag and mesocosm experiments tell us about potential impacts and thresholds? | |
| d. What are the potential impacts and risks of the Plant's effluent discharge? System wide? Local to the discharge? | |
| 11. Break | 3:00pm |

What are the potential impacts of the Perry Willard Regional Wastewater Treatment Plant on Willard Spur?

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| 12. Discussion | 3:15pm |
| a. How can we summarize an answer to this question that we can forward to the Steering Committee? | |
| 13. Path Forward | 3:45pm |
| 14. Adjourn | 4:00pm |