

## Southern Idaho Section – Snake River Branch Meeting

**DATE:** Tuesday, January 17, 2017  
**TIME:** 12:00 pm  
**LOCATION:** Pizza Pie Café, 3160 E 17<sup>th</sup> St., Ammon, Idaho  
**COST:** \$10.00 for Buffet Lunch and Drink (payment collected at the door)

**PRESENTATION:** Reinforced Concrete Sewer Pipe Collapse, Dr. Nathan Harris, BYU-Idaho

### PRESENTATION DESCRIPTION

A 30-year old, 54-inch reinforced concrete trunk sewer at a treatment plant in Carlsbad, California collapsed with little warning, completely blocking flow. The pipe carried approximately 17 mgd of sewage to the treatment plant headworks with no redundancy. The failure resulted in sewage exiting manholes just upstream of the collapse. After the flow was rerouted through temporary above ground pipes, a 300-ft long section of the pipe was excavated and replaced. Exponent, Inc. (formerly Failure Analysis Associates) conducted an investigation into the cause of the collapse. A description of events surrounding the failure (including photographs taken as the failure occurred), the factors contributing to failure of the pipe, and lessons learned will be discussed.

Lunch purchased through ASCE (check if yes)

### Sign-In Sheet:

|     |                           |                                                  |                   |
|-----|---------------------------|--------------------------------------------------|-------------------|
| 1.  | <u>Aaron Swenson</u>      | email: <u>aswenson@forsgren.com</u>              | Lunch <u>    </u> |
| 2.  | <u>Kent Fugal</u>         | email: <u>kfugal@idahofalls.idaho.gov</u>        | Lunch <u>✓</u>    |
| 3.  | <u>Nathan Harris</u>      | email: <u>harrisn@byui.edu</u>                   | Lunch <u>    </u> |
| 4.  | <u>KEVIN HINKLEY</u>      | email: <u>khinkley@hwlochner.com</u>             | Lunch <u>✓</u>    |
| 5.  | <u>BRUCE SAVAGE</u>       | email: <u>SAVA@ISU.EDU</u>                       | Lunch <u>✓</u>    |
| 6.  | <u>MARVIN FIELDING</u>    | email: <u>mfielding@kellerassociates.com</u>     | Lunch <u>    </u> |
| 7.  | <u>Mary Ririe</u>         | email: <u>mririe@kellerassociates.com</u>        | Lunch <u>    </u> |
| 8.  | <u>Riley Bradshaw</u>     | email: <u>rbradshaw@kellerassociates.com</u>     | Lunch <u>    </u> |
| 9.  | <u>NATHAN SMITH</u>       | email: <u>NDWOLF@MSN.COM</u>                     | Lunch <u>    </u> |
| 10. | <u>Eric Scoddard</u>      | email: <u>eric.scoddard@frost-structural.com</u> | Lunch <u>    </u> |
| 11. | <u>Rocky Benedetti</u>    | email: <u>rbenedetti@stratageotech.com</u>       | Lunch <u>    </u> |
| 12. | <u>BILL SHAW</u>          | email: <u>BILL.SHAW@ITD.IDAHO</u>                | Lunch <u>✓</u>    |
| 13. | <u>W. Brooks Cooper</u>   | email: <u>brooks.cooper@int.gov</u>              | Lunch <u>    </u> |
| 14. | <u>John Peter Gilmore</u> | email: <u>jp.gilmore@hotmail.com</u>             | Lunch <u>    </u> |
| 15. | <u>TELI SHA FIVAS</u>     | email: <u>telishamarie@hotmail.com</u>           | Lunch <u>    </u> |

Lunch purchased through ASCE (check if yes)

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|-----|------------------------|-----------------------------------------|-------------------------------------------|
| 16. | <u>Jake Morrill</u>    | email: <u>jake.morrill@eszeng.com</u>   | Lunch <input type="checkbox"/>            |
| 17. | <u>JUSTIN SCOTT</u>    | email: <u>justintscott90@gmail.com</u>  | Lunch <input type="checkbox"/>            |
| 18. | <u>Patrick Fisher</u>  | email: <u>fis14013@byui.edu</u>         | Lunch <input type="checkbox"/>            |
| 19. | <u>Robert Esplin</u>   | email: <u>RESPLIN@ESZENG.COM</u>        | Lunch <input type="checkbox"/>            |
| 20. | <u>JUSTIN BEARD</u>    | email: <u>jbeard@gnaforsgren.com</u>    | Lunch <input checked="" type="checkbox"/> |
| 21. | <u>Bruce Jolley</u>    | email: <u>bjolley@connectengr.com</u>   | Lunch <input type="checkbox"/>            |
| 22. | <u>Austin Sung</u>     | email: <u>austin.sung@valmont.com</u>   | Lunch <input type="checkbox"/>            |
| 23. | <u>Syd Withers</u>     | email: <u>sydte2@gmail.com</u>          | Lunch <input type="checkbox"/>            |
| 24. | <u>Keith Bourgeois</u> | email: <u>bourgeois k@byui.edu</u>      | Lunch <input type="checkbox"/>            |
| 25. | <u>ZANE WELLS</u>      | email: <u>ZANE_WELLS@ESZENG.COM</u>     | Lunch <input type="checkbox"/>            |
| 26. | <u>JEFF HANSEN</u>     | email: <u>han12047@byui.edu</u>         | Lunch <input type="checkbox"/>            |
| 27. | <u>Connor Erb</u>      | email: <u>erbcorn@isu.edu</u>           | Lunch <input type="checkbox"/>            |
| 28. | <u>CODY WAGEMAN</u>    | email: <u>CODY.WAGEMAN@VALMONT.COM</u>  | Lunch <input type="checkbox"/>            |
| 29. | <u>Tyson Knudsen</u>   | email: <u>tyson.knudsen@valmont.com</u> | Lunch <input type="checkbox"/>            |
| 30. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 31. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 32. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 33. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 34. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 35. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 36. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 37. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 38. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 39. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 40. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 41. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 42. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |
| 43. | _____                  | email: _____                            | Lunch <input type="checkbox"/>            |