NPDES Permit #IDS027561
Permit Appendix B - Annual Report Form

This Annual Report is due no later than January 30 of each year, beginning in Calendar Year 2023, and reflects the relevant reporting period, starting October 1, 2021. See Permit Part 6.4.2

Annual Reports and any attachments must be sent to IDEQ by U.S. Postal Mail to the following address:

Regional Administrator
Idaho Department of Environmental
Quality Attn: Water Quality Program
Boise Regional Office
1445 N. Orchard St.
Boise, ID 83706

Complete Sections 1 through IV. Do not leave any questions blank.

MS4 Permittee Name/Organization: Idaho Transportation Dept District 3

Permit Number: IDS027561

Reporting Period:

- ○ **Year 1 Reporting Period:** Oct. 1, 2021 – Sept. 30, 2022 – **Annual Report due date:** January 30, 2023
- ○ **Year 2 Reporting Period:** Oct. 1, 2022 – Sept. 30, 2023 – **Annual Report due date**: January 30, 2024
- ○ **Year 3 Reporting Period** Oct. 1, 2023 – Sept. 30, 2024 – **Annual Report due date:** January 30, 2025
- ○ **Year 4 Reporting Period** Oct. 1, 2024 – Sept. 30, 2025 – **Annual Report due date:** January 30, 2026
- ◉ **Year 5 Reporting Period** Oct. 1, 2025 – Sept. 30, 2026 – **Annual Report due date: September 30, 2026**
- ○ Other

Certification: *"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*

Signature: Greg Vitley

Digitally signed by Greg Vitley
DN: C=US, E=Greg.Vitley@itd.idaho.gov, O=Idaho Transportation Department District 3, OU=Environmental, CN=Greg Vitley
Location: ITD D3 ENV
Reason: I am the author of this document
Contact Info: 208-334-8952
Date: 2026.09.25 11:09:28-06'00'

Printed Name: Greg Vitley

Title: District Environmental Planner

Date: 01/23/2026

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Section I. General Information

MS4 Facility Site Name: ITD D3

MS4 Facility Organization Formal Name: Idaho Transportation Department District 3

MS4 Facility Contact Name: Greg Vitley

Title: Environmental Planner Senior

MS4 Contact Telephone: 208-334-8952

MS4 Contact Email Address: Greg.Vitley@itd.idaho.gov

MS4 Facility Contact Type (all that apply): ☐ Owner ☐ Operator ☑ Main Contact

MS4 Facility Site Address: 8150 Chinden Blvd

MS4 Facility Site City, State, Zip Code: Boise, Idaho 83714

MS4 Facility Site Mailing Address: ***if different from above***

Is the MS4 Facility Site Located On Tribal Land? ◯ **Yes** ◉ **No**

MS4 Facility Jurisdiction Type (check all that apply):

- ☐ Federal
- ☑ State
- ☐ College or University
- ☐ State Highway Department
- ☐ Municipal:
- ☐ County
- ☐ City or Town
- ☐ Highway District
- ☐ Tribal
- ☐ Other

List All Receiving Water(s) For the MS4 Discharges:

Boise River (2)
Ridenbaugh Canal
Warm Springs Canal

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Section II. Permittee Responsibility:
Please answer all questions. If the answer is "No," or "Not Applicable" and no other direction is provided, use the Comments field at the end of this section to explain the reason and the expected date(s) that the requirement will be met, and/or to explain why the requirement does not apply.

1. **This Permittee organization shares implementation responsibility for Permit compliance with one or more Permittees.**
   (●) *Yes* ( ) *No* ( ) *Not Applicable*

   Is the agreement between the Permittees described/cited in the Stormwater Management Program (SWMP) Document?

   (●) *Yes* ( ) *No* ( ) *Not Applicable*

2. **This Permittee organization shares implementation responsibility for Permit compliance with one or more outside (non-Permittee) entities.**

   Is the agreement with these other entity(ies) described/cited in the SWMP Document?

   ( ) *Yes* (●) *No* ( ) *Not Applicable*

3. **This Permittee organization maintains relevant ordinances or other regulatory mechanisms to control pollutant discharges into and from the MS4 to meet the requirements of the permit.**
   (●) *Yes* ( ) *No* ( ) *Not Applicable*

   (If "No," use the Comment field to specify on overall progress to adopt adequate ordinances or utilizing available regulatory mechanisms.)

4. **This Permittee organization's SWMP Document is posted on a publicly accessible website**.
   (●) *Yes*

   Identify the URL for the webpage where the SWMP Document can be accessed:

   http:// https://itd.idaho.gov/environmental/stormwater/

   ( ) *No*

   ( ) *Not Applicable*

5. **The Permittee provided a summary of total costs associated with the SWMP implementation over the reporting period.**

   (●) *Yes*

   Note: Permit Part 6.4.2.2.5 requires Permittees to provide annual expenditures for the reporting period, and estimated budget for the reporting period following each Annual Report.

   ( ) *No*

   ( ) *Not Applicable*

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6. **This Permittee organization regularly tracks certain activities to set priorities and assess compliance with the Permit requirements.**

(●) *Yes* ( ) *No* ( ) *Not Applicable*

7. During the reporting period, responsibility for SMWP implementation has changed due to a Transfer of Ownership or Operational Authority over a geographic portion of the MS4.

This Permittee's SWMP Document has been updated to reflect these changes in responsibility for any new or transferred areas served by the MS4.

( ) *Yes*

If yes, use the Comments field to provide a brief statement summarizing the change in ownership or operational authority.

(●) *No*

( ) *Not Applicable*

Section II Comments:

During the reporting period there has been no transfer of SWMP implementation, therefore, no changes are discussed in the SWMP update.

The ITD D3 spent $54,851.00 on the MS4 in 2026 and expects to pay $54,000.00 in 2026. This estimate does not include lab fees.

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Section III. Status of SWMP Control Measures
Please answer all questions for each SWMP control measure and associated component activity. In the Comments field, cite any relevant information and/or statistics that helps illustrate the Permittee's implementation of the required action/activity.

If the answer is "No," use the Comments field to explain the reason, and outline the expected dates that the requirement will be met.

If the requirement does not apply to the Permittee's organization, mark "NA" and explain why it does not apply in the Comments field.

Public Education, Outreach and Involvement Program (Permit Part 3.1)

8. **This Permittee organization conducts an education, outreach, and public involvement program based on stormwater issues of significance in the Permittee's jurisdiction.**

   ○ *Yes, this organization conducts the education, outreach, and involvement activities required by the Permit*

   ◉ *Yes, this organization works through contract with other entities to conduct the education, outreach, and involvement activities required by the Permit*

   ○ *No*

   ○ *Not Applicable*

9. **Target Audience: During the reporting period, this Permittee organization focused its education, outreach, and public involvement messages to the following audience(s):**

   ☑ ***General Public*** *(including homeowners, homeowner's associations, landscapers, and property managers)*

   ☑ ***Business/Industrial/Commercial/Institutions*** *(including home based and mobile businesses)*

   ☑ ***Construction/Development*** *(e.g., Engineers, Contractors, Developers, Landscape Architects, Site Design Professionals)*

   ☑ ***Elected Officials, Land Use Policy and Planning Staff***

   ☐ Other *(describe in Comments section below)*

10. **Topics: During the reporting period, this Permittee organization focused its education, outreach, and public involvement messages on the following topics** *(select all that apply):*

    ☑ General impacts of stormwater flows into surface water, and appropriate actions to prevent adverse impacts;

    ☑ Impacts from impervious surfaces, techniques to avoid adverse impacts;

    ☑ Yard care techniques protective of water quality, such as composting;

    ☑ Proper use, application & storage of pesticides, herbicides, and fertilizers;

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- [x] Litter & trash control and recycling programs;
- [x] BMPs for power washing, carpet cleaning, auto repair &maintenance;
- [x] Low Impact Development/green infrastructure techniques, including site design, pervious paving, retention of mature trees/vegetation, landscaping and vegetative buffers;
- [x] Maintenance of landscape features providing water quality benefits;
- [x] Stormwater treatment and volume control practices;
- [x] Technical standards for stormwater site plans; including appropriate selection, installation, and use of required construction site control measures
- [x] Source control BMPs and environmental stewardship;
- [x] Impacts of illicit discharges and how to report them;
- [x] Actions and opportunities for pet waste control/disposal,
- [x] Water wise landscaping, water conservation, water efficiency
- [x] BMPs for use and storage of automotive chemicals, hazardous cleaning supplies, vehicle wash soaps and other hazardous materials;

11. During the reporting period, this Permittee organization began and/or continued distribution of the selected messages/activities to the intended target audience.

(●) *Yes*

Please summarize the message/activity conducted during the reporting period in the Comments section below.

( ) *No*

Note: Permit Part 3.1.3 requires Permittees to conduct at least eight (8) educational messages or activities no later than ***September 30, 2026.***

( ) *Not Applicable*

12. During this reporting period, this Permittee organization assessed, or participated in efforts to assess, the understanding and adoption of intended behaviors by the target audience.

(●) *Yes; In the Comments section below, please summarize efforts to assess the selected education, outreach and public involvement activities conducted during the reporting period. If information is available, describe how this information is used to improve the education/outreach efforts.*

( ) *No*

( ) *Not Applicable*

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13. During this reporting period, this Permittee organization offered (or worked with others to offer) training/education regarding construction site runoff control measures to site operators working in the Permittee's jurisdiction.

(●) *Yes*

( ) *No*

Note: Permit Part 3.1.7.1 requires Permittees to offer outreach/training on construction site control measures at least once per year during the permit term, no later than ***September 30, 2026.***

( ) *Not Applicable*

14. During this reporting period, this Permittee organization offered (or worked with others to offer) training/education regarding permanent stormwater controls to audiences working in the Permittee's jurisdiction.

(●) *Yes*

( ) *No*

Note: Permit Part 3.1.7.2 requires Permittees to offer outreach/training on permanent stormwater controls at least once per year during the permit term, no later than ***September 30, 2026.***

( ) *Not Applicable*

15. This Permittee organization maintains and promotes a publicly-accessible website that provides current SWMP-related information cited in Permit Part 3.1.8. This website was recently updated prior to submitting this Report.

(●) *Yes*

URL for the Permittee's webpage:

http:// https://itd.idaho.gov/environmental/stormwater/ AND Partnersforcleanwater.org

( ) *No*

( ) *Not Applicable*

Comments on Public Education, Outreach, and Involvement Program:
Use this Comments field to explain or discuss unique implementation schedules, summarize nature of the education, outreach, and public involvement activities conducted during the reporting period

The City of Boise is responsible for all public education and outreach requirements. The Department participates in the planning and implementation of the activities as needed. Additionally, the ITD D3 works to promote clean storm water in the District. ITD D3 defaults to the local jurisdictions requirements when designing permanent stormwater controls.

Information regarding the City of Boise's public education and outreach program, target audiences, activities, stormwater pollution prevention messaging, assessment and tracking, etc. can be found in Attachment A.

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Illicit Discharge Detection and Elimination Program (Permit Part 3.2)

16. **To the extent allowable pursuant to authority granted under Idaho law, this Permittee organization conducts and enforces a program to detect and eliminate illicit discharges into the MS4.**

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.2 requires Permittees to revise and update their existing programs as necessary to comply with Permit Parts 3.2.2 through 3.2.9 no later than ***April 3, 2026.***

- ( ) *Not Applicable*

17. **This Permittee organization maintains a current MS4 Map and Outfall Inventory as described in Permit Part 3.2.2.**

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.2 requires Permittees to update their Map(s) and Inventory no later than ***April 3, 2026.***

- ( ) *Not Applicable*

18. **To the extent allowable pursuant to authority granted under Idaho law, this Permittee organization prohibits non-storm water discharges into the MS4 (*except those identified in Permit Part 2.4*) through an ordinance or other regulatory mechanism.**

- (●) Yes – if yes, please provide citation/web address to the ordinance/regulatory mechanism:

  https://adminrules.idaho.gov/rules/current/39/390342.pdf

- ( ) *No*

  Note: Permit Part 3.2 requires Permittees to revise and update their existing programs as necessary no later than ***April 3, 2026.***

- ( ) *Not Applicable*

19. **This Permittee organization maintains a dedicated telephone number, email address, and/or other means for the public to report illicit discharges,**

- (●) *Yes – if yes, please provide phone number/web address :*

  Hotline: 208-395-8888 District: 208-334-8300, https://www.partnersforcleanwater.org/report-an-issue/

- ( ) *No*

  Note: Permit Part 3.2 requires Permittees to revise and update their existing programs as necessary no later than ***April 3, 2026.***

- ( ) *Not Applicable*

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20. This Permittee organization responds and investigates illicit discharge complaints or reports within two working days.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.2 requires Permittees to revise and update their existing programs as necessary no later than ***April 3, 2026.***

- ( ) *Not Applicable*

21. Number of public Complaints/Reports Received During this Reporting Period:

0

22. Number of Illicit Discharge Complaints/Reports Investigated through field visits, sampling or other follow-up action 0

23. Number of Illicit Discharge Complaints/Reports Resolved 0

24. This Permittee organization conducts a dry weather analytical and field screening monitoring program to identify non-stormwater flows from MS4 outfalls.

(●) *Yes* ( ) *No* ( ) *Not Applicable*

25. During the reporting period, this Permittee organization used its written protocols to prioritize and identify MS4 outfalls for dry weather discharge investigation.

(●) *Yes* ( ) *No* ( ) *Not Applicable*

26. Total Number of MS4 Outfalls in the Permittee's jurisdiction of the Permit Area:

4

27 During the reporting period, this Permittee organization completed visual dry weather screening on at least 20 percent of MS4 outfalls.

- (●) *Yes— Total # outfalls < 7, so only one outfall screened this reporting period.*
- ( ) *No*
- ( ) *Not Applicable*

28. Of the 20 percent of outfalls screened during the reporting period:

How many outfalls were discharging during dry weather? 0

How many of these identified dry weather discharges were sampled or otherwise investigated to determine the discharge source? 0

How many of the identified dry weather discharges resulted in the Permittee action to address and eliminate the discharge source? 0

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29. **During this reporting period, how many of the Permittee's MS4 outfalls have been identified as having dry weather flows caused by irrigation return flow or ground water seepage?**
Number of outfalls identified this reporting period 0
Total number of MS4 outfalls identified to date, as having dry weather flows from irrigation or groundwater seepage 2

Note: Permit Part 3.2.6 requires Permittees to provide a complete list of MS4 outfalls locations identified as having dry weather flows caused by irrigation return flow or ground water seepage as part of the Permit Renewal Application no later than ***April 3, 2026.***

30. **This Permittee organization maintains written spill response procedures and coordinates appropriate spill prevention, containment and response activities with other organizations in the Permit Area to ensure maximum water quality protection at all times.**

(●) *Yes* ( ) *No* ( ) *Not Applicable*

31. **This Permittee organization coordinates with appropriate local entities to educate employees and the public of the proper management and disposal or recycling of used oil, vehicle fluids, toxic materials, and other household hazardous wastes.**

(●) *Yes* ( ) *No* ( ) *Not Applicable*

32. **This Permittee organization's staff responsible for investigating, identifying and eliminating illicit discharges, spills, and illicit connections into the MS4 are trained to conduct such activities**

(●) *Yes* ( ) *No* ( ) *Not Applicable*

Comments on Illicit Discharge Detection and Elimination Program:
Use this Comments field to explain any unique implementation schedules, highlight investigation results or follow-up actions, discuss subsequent enforcement actions, etc. that were conducted during the relevant reporting period.

Ridenbaugh Canal and Warm Springs outfalls had dry weather screening. Ridenbaugh Canal outfall was submerged and a definitive discharge could not be determined. Warms Springs Canal outfall had no discharge. See Attachment F.

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Construction Site Runoff Control Program (Permit Part 3.3)

33. This Permittee organization uses an ordinance or other regulatory mechanism to require erosion, sediment, and waste material management controls at construction project site activity that results in land disturbance of one (1) or more acres and discharges to the MS4.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.3 requires Permittees to update their construction site runoff control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

34. This Permittee organization requires construction site operators to submit construction site plans for Permittee review.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.3 requires Permittees to update their construction site runoff control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

35. This Permittee organization inspects construction sites to ensure compliance with applicable requirements for erosion, sediment and waste material management controls.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.3 requires Permittees to update their construction site runoff control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

36. This Permittee organization inspects construction sites using an inspection prioritization system.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.3 requires Permittees to update their construction site runoff control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

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37. **This Permittee organization implements a written escalating enforcement response policy or plan (ERP) for construction site runoff control.**

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.3 requires Permittees to update their construction site runoff control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

38. This Permittee organization ensures that all persons responsible for preconstruction site plan review, site inspections, and enforcement of construction site runoff control requirements are appropriately trained to conduct such activities – specifically, this organization provides orientation and training for new staff working on construction runoff control issues within the first six (6) months of employment.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.3 requires Permittees to update their construction site runoff control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

Comments on Construction Site Runoff Control:
Use this Comments field to explain unique implementation schedules, summarize the number of site inspections, follow-up actions, and/or any subsequent enforcement actions, etc that were conducted during the relevant reporting period.

ITD did not have any projects within the permit area this permit cycle.

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Post Construction Stormwater Management in New Development & Redevelopment (Permit Part 3.4)

39. Through ordinance or other regulatory mechanism, this Permittee organization requires the installation and long-term maintenance of permanent stormwater controls at new development and redevelopment project sites that result from land disturbance of 5,000 square feet or more, excluding individual one- or two-family dwelling development or redevelopment and the infill or redevelopment of public pedestrian infrastructure projects. Required controls are sufficient to retain onsite the runoff volume produced from the first 0.6 inches of rainfall from a 24-hour event preceded by 48 hours of no measurable precipitation, and/or require runoff treatment providing equal or greater level of water quality benefit as this onsite retention standard.

(●) *Yes*

Please cite to the ordinance containing the permanent stormwater control requirements:

ITD defaults to the local jurisdiction standards within Boise City Limits.

( ) *No*

Note: Permit Part 3.4 requires Permittees to update their permanent stormwater control requirements no later than ***April 3, 2026.***

( ) *Not Applicable*

40. This Permittee organization requires permanent storm water controls through written specifications.

(●) *Yes*

Please cite to the document containing the permanent stormwater control requirements:

ITD defaults to the local jurisdiction standards within Boise City Limits.

( ) *No*

Note: Permit Part 3.4 requires Permittees to update their permanent stormwater control requirements no later than ***April 3, 2026.***

( ) *Not Applicable*

41. This Permittee organization requires preconstruction site plan review and approval for permanent storm water controls at new development and redevelopment sites.

(●) *Yes*

( ) *No*

Note: Permit Part 3.4 requires Permittees to update their permanent stormwater control requirements no later than ***April 3, 2026.***

( ) *Not Applicable*

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41.b This Permittee organization cooperates in the implementation of the Green Infrastructure Strategy to employ innovative approaches to control stormwater quality and quantity in the Lower Boise River watershed.

Use this field below to describe any relevant Permittee actions during the reporting period, as applicable.

ITD has hired a consultant to prepare an ITD GSI Strategy. ITD D3 designs permanent storm water facilities to meet the local jurisdiction standards. When there are no local jurisdiction standards we use best management practices and/or refer to the Idaho Roadside Design Manual or the AASHTO Green Book. See Attachment B for ACHD GSI Program Activities and Project Descriptions 2025-2026.

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42. This Permittee organization has identified high priority locations in the jurisdiction where the Permittee regularly inspects the installation, and long-term operation, of permanent stormwater controls.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.4 requires Permittees to update their permanent stormwater control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

43. This Permittee organization has an enforcement strategy to ensure and maintain the functional integrity of permanent stormwater controls within this jurisdiction.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.4 requires Permittees to update their permanent stormwater control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

44. This Permittee organization uses a database inventory to track and manage the operational condition of permanent stormwater controls within this jurisdiction.

- ( ) *Yes*
- (●) *No*

  Note: Permit Part 3.4 requires Permittees to update their permanent stormwater control requirements no later than ***April 3, 2026.***

- ( ) *Not Applicable*

45. This Permittee organization requires enforceable and transferable O&M Agreements, where parties other than this Permittee organization are responsible for operation and maintenance of permanent storm water controls?

- (●) *Yes*
- ( ) *No - Note: Permit Part 3.4 requires Permittees to update their permanent stormwater control requirements no later than* ***April 3, 2026.***
- ( ) *Not Applicable*

46. This Permittee organization ensures that all persons responsible for reviewing site plans for permanent stormwater controls and/or for inspecting the installation and operation of permanent controls are trained to conduct such activities

- (●) *Yes*
- ( ) *No - Note: Permit Part 3.4 requires Permittees to update their permanent stormwater control requirements no later than* ***April 3, 2026.***
- ( ) *Not Applicable*

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Comments on Post Construction Stormwater Management in New Development and Redevelopment

Use this Comments field as necessary to explain any unique implementation schedules, summarize inspections, actions, etc. that were conducted during the relevant reporting period.

While ITD uses an asset tracking database it does not yet have the ability to track operational condition of permanent storm water structures. ITD is working on the development of such a database. Currently ITD regularly visits these sites at least once per year. Priority is based on past issues, potential impacts to receiving waters, and public safety.

Our plan reviewers are trained to review the permanent storm water controls and/or operations. Many projects are done by consultant with proper training.

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Stormwater Infrastructure and Street Management (Permit Part 3.5)

47. This Permittee organization inspects all MS4 catch basins and inlets in the jurisdiction at least once every two years and takes appropriate maintenance or cleaning action based on those inspections.

- (●) *Yes*
- ( ) *No – Permittee uses an alternate inspection & maintenance schedule as outlined in the SWMP Document.*
- ( ) *No*

  Note: Permit Part 3.5 requires Permittees to update their pollution prevention and good housekeeping *as needed to properly operate and maintain their MS4s no later than* ***April 3, 2026.***
- ( ) *Not Applicable*

Total Number of catch basins and inlets inspected this reporting period 0.0

48. This Permittee organization operates and maintains Streets, Roads, Highways and/or Parking Lots in its jurisdiction in a manner that protects water quality and reduces the discharge of pollutants through the MS4.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.5 requires Permittees to update their requirements pollution prevention/good housekeeping for MS4 Operations no later than ***April 3, 2026***
- ( ) *Not Applicable*

49. This Permittee organization operates all street/road maintenance material storage locations in a manner that prevents pollutants in stormwater runoff from discharging to the MS4 or into any receiving waterbody. A description of each Material Storage Location is included in the SWMP Document, as required by Permit Part 3.5.4

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.5 requires Permittees to update their requirements pollution prevention/good housekeeping for MS4 Operations no later than ***.***
- ( ) *Not Applicable*

50. This Permittee organization sweeps all streets, roads, highways, and parking lots according to a sweeping management plan and the sweeping schedule outlined in Permit Part 3.5.5.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.5 requires Permittees to update their requirements pollution prevention/good housekeeping for MS4 Operations no later than ***April 3, 2026***

- ( ) *Not Applicable*

51. This Permittee organization has reviewed its operation and maintenance activities for the types of activities listed below and confirms that all such activities are conducted in a manner that protects water quality and reduces the discharge of pollutants through the MS4. Municipal Activities to be addressed include: *grounds/park and open space maintenance operations; fleet maintenance and vehicle washing operations; building maintenance; snow disposal site operation and maintenance; solid waste transfer activities; municipal golf course maintenance; materials storage; hazardous materials storage; used oil recycling; and spill control and prevention measures for municipal refueling facilities.*

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.5 requires Permittees to update their requirements pollution prevention/good housekeeping for MS4 Operations no later than ***April 3, 2026***

- ( ) *Not Applicable*

52. **This Permittee organization ensures appropriate practices to reduce the discharge of pollutants to the MS4 associated with the application, storage and disposal of pesticides, herbicides and fertilizers. All employees or contractors applying pesticides, etc. are instructed to follow all label requirements, including those regarding application methods, rates, number of applications allowed, and disposal of the pesticide/herbicide/fertilizer and rinsate.**

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.5 requires Permittees to update their requirements pollution prevention/good housekeeping for MS4 Operations no later than ***April 3, 2026.***

- ( ) *Not Applicable*

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53. This Permittee organization uses site specific Storm Water Pollution Prevention Plans for all Permittee-owned material storage facilities, heavy equipment storage areas, and maintenance yards located in the Permit Area.

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.5 requires Permittees to update their requirements pollution prevention/good housekeeping for MS4 Operations no later than ***April 3, 2026.***

- ( ) *Not Applicable*

54. This Permittee organization ensures that all persons responsible for municipal operations and maintenance activities are trained to conduct such activities

- (●) *Yes*
- ( ) *No*

  Note: Permit Part 3.5 requires Permittees to update their requirements pollution prevention/good housekeeping for MS4 Operations no later than ***April 3, 2026.***

- ( ) *Not Applicable*

Comments on Stormwater Infrastructure and Street Management
Use this Comments field as necessary to explain any unique implementation schedules, summarize inspections, actions, etc. that were conducted during the relevant reporting period

ITD operates an Adopt-a-Highway Program and this year ITD collected 55 tons of garbage from I-184 and I-84. ITD swept up 56 cubic yards of material in the permit area this year.

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Industrial and Commercial Stormwater Discharge Management (Permit Part 3.6)

55. ***This Permittee organization maintains an inventory of industrial & commercial facilities within the Permit Area, and inspects such facilities on a prioritized basis as required by Permit Part 3.6.***

Use this comment box to summarize Permittee activities related to Permit Part 3.6.

ITD has mapped industrial and commercial areas adjacent to state highways, U.S. highways, and interstate within the permit area. ITD is developing does not inspect industrial and commercial facilities because it doesn't have authority, unless there is a potential discharge from a facility. ITD did not have any discharges from a commercial or industrial facility this permit year.

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Section V. Response To Excursions Above Idaho Water Quality Standards

56. During this or any prior reporting period, did the Permittee submit written notification to EPA and IDEQ regarding MS4 discharge that are causing or contributing to an excursion above the WQS as directed by Permit Part 5.1?

- ○ *Yes – if yes, proceed to Q.56*
- ◉ *No*
- ○ *Not Applicable*

57. During this or any prior reporting period, did the Permittee submit an Adaptive Management Report to EPA and IDEQ, as directed by Permit Part 5.2?

- ○ *Yes – if yes, proceed to Q.57*
- ◉ *No*
- ○ *Not Applicable*

58. Provide a summary of the Permittee's efforts to date that address the MS4 discharges contributing to the original water quality excursion, including the results of any monitoring, assessment, or evaluation efforts conducted during the reporting period.

Additional monitoring activities included in reporting year 2025-2026 includes an update to the ACHD Storm Water Outfall Monitoring (Attachment C), ACHD Stormwater Outfall Summary (Attachment D), the ACHD Temperature Monitoring (Attachment E). and ITD dry weather monitoring (Attachment F).

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59. List any attachments submitted as part of this Annual Report:

Note: Part 6.2.1 requires an updated *Stormwater Outfall Monitoring Plan* to be submitted as part of the Year 1 Annual Report, due January 30, 2023.

Attachment A: Public Education, Outreach Summary and Involvement Program.
Attachment B: ACHD GSI Program Activities and Project Descriptions
Attachment C: ACHD Stormwater Outfall Monitoring Summary
Attachment D: ACHD American Subwatershed Summary
Attachment E: ACHD Temperature Monitoring Summary,
Attachment F: ITD Dry Weather Monitoring.

Attachment A

Public Education, Outreach and Involvement Program

1. Overview

The City of Boise, Ada County Highway District, Garden City, Ada County Drainage District #3, Idaho Transportation Department District #3, and Boise State University formed Partners for Clean Water (Partners) to develop a cooperative approach to educating the public on stormwater and water quality issues and ensure compliance with the Permit. The City of Boise is the lead agency for this control measure of the Permit with support from the other Partners. The overarching goal of the program is to educate the public on stormwater issues to change specific behaviors that contribute to nutrient, bacteria, temperature, and sediment pollution to the MS4 and local receiving waters.

The City's Stormwater Public Education and Outreach Program is guided by a step-by-step process when developing educational opportunities.

1. Define goals and desired outcomes
2. Identify and analyze target audiences
3. Create messaging for selected audiences
4. Distribute message through chosen methods of outreach
5. Assess the results in order to direct future efforts

The Partners conduct multiple outreach activities and messaging campaigns each year, designed to reach the various target audiences identified in the Permit and focus on stormwater issues of significance in the Permit area. The permittees collaborate each year on which topics and relevant messages the program will focus their efforts on. These activities and messages are further developed and built upon based on feedback and public participation.

Target audiences in Permit Year 5 included the general public, businesses, homeowners, neighborhood associations, pet owners, landscapers, property managers, engineers, contractors, developers, plan review staff, and students. Specific details that meet Permit Part 3.1 requirements can be found below.

2. Ongoing Efforts (throughout Permit term):

Annual Media Campaign

The Partners continue to participate in an annual media campaign which utilize messaging opportunities with radio advertisements, public service announcements, and online ads. The media campaign reaches all target audiences with general messages on water quality with a focus on pet waste and illicit discharge reporting in 2026.

Manuals and Reference Materials

Manuals, fact sheets and other education and outreach reference materials are available on the Partners for Clean Water website. These materials are targeted, based on content, to all our targeted audiences. Examples of

these documents include 'Stormwater Facility Maintenance Best Management Practices', 'Stormwater Pollution Prevention: Commercial Landscaping', 'Operation and Maintenance of Stormwater Systems', 'Drainage Plan Checklist' and 'Stormwater Management Resource Guide', among others.

Website

The website (partnersforcleanwater.org) reaches all target audiences within the Treasure Valley with specific messaging based on audience. More information can be found in section 7 below.

Boise WaterShed Environmental Education Center

In 2025, The Boise WaterShed reopened as the nation's first climate and water science center, after an extensive remodel. The all-ages, hands-on exhibits explore themes of our changing watershed and how the community can take action to help make our community more resilient to the effects of climate change. The facility is designed to promote water stewardship by teaching people of all ages how to protect and conserve our water resources for future generations.

The staff at the Boise WaterShed incorporates stormwater pollution prevention and stormwater management information into the programs, water renewal facility tours, and lessons offered to visitors. Education of personal impacts to water quality via stormwater, wastewater and pollution prevention tips are integrated throughout most exhibits, lessons, tours, and the center's library resources.

The facility also provides an outdoor River Campus which presents a new dimension to water education with exterior exhibits that show the big picture of the Treasure Valley's water resources. Presented to simulate the workings of the Lower Boise Watershed, the interactive, walk-able, park-like setting takes visitors on a journey from Lucky Peak Reservoir and Dam, through Boise's urban streets, and the Water Renewal Facility. From here they watch cleaned water returned to the Boise River and see it flow downstream to the agricultural zone that sustains our food industry. Ultimately, visitors realize that what we do upstream not only affects downstream users, but also ultimately the overall health of the Snake River and beyond.

Social Media

The City of Boise and other Partners regularly posts messaging on Twitter, Facebook, and Instagram regarding stormwater, water quality, household hazardous waste collection, leaf litter pick up information, composting, etc. to help distribute these messages to the community through a variety of avenues.

3. 2026 Outreach Events and Activities:

Media Campaign

The media campaign for 2026 included radio ads, social media posts, billboards, and online ads on websites such as BoiseDev and Google.

Themes highlighted in 2026 include picking up pet waste and illicit discharge reporting, seen in Figure 1 below.



Figure 1. 2026 Stormwater Educational Graphics

Radio ads featuring Partners outreach messages were aired on radio stations including KJOT, KRVB, KXLT, KKOO, KIZN, KKGL, LA GRAND, and LA PONDEROSA. Radio ads were broadcast in English and Spanish.

2026 Outreach Events

Several events were held during Permit Year 5 for stormwater education and outreach purposes. Each event targeted the general public and focused on general stormwater awareness, illicit discharge reporting, stormwater pollution prevention tips for homes and businesses, and water quality.

City of Boise Greenbelt Quest:

In May, the WaterShed held a Greenbelt Quest, that invited attendees to participate in a self-guided biking tour to several different stops to learn more about the Boise River ecosystem, local wildlife, and how the greenbelt supports healthy transportation choices. Partners for Clean Water had a stormwater trivia activity, as well as handouts and interactive giveaways.



Figure 2. Bikers along the Greenbelt traveled through several different stops with local community partners, including Partners for Clean Water.

Open Streets Boise:



Figure 3. Open Streets Boise 2025

In September, Partners for Clean Water led a storm drain marking event at Open Streets Boise. Open Streets Boise temporarily transforms neighborhood streets into car-free community spaces where folks can bike, walk, and roll together. Open Streets Boise moves between neighborhoods highlighting different neighborhoods and local businesses. This event took place on Catalpa Dr. between Collister Dr. and Hill Rd. and approximately 30 storm drains were marked by community members.

4. Assessment

The Partners are consistently assessing the public's understanding of our public outreach messages and the adoption of behaviors that reduce stormwater pollution by our target audiences.

Assessment includes surveys at events that measure general stormwater knowledge to evaluate which topics are being conveyed already, and which topics need additional messaging and awareness. These surveys also resolve which media avenues are most useful to the respondents to guide our outreach in the future.

Data from website usage is also used to assess which programs and messages are reaching the most people and which media avenues generate the most viewership. The Partners website is updated based on which pages are most viewed and clicked on, in order to make popular topics more accessible.

The results of these continual assessments constantly shape the future of our public outreach and education programming. Focus will be given to programs and efforts that are successful in changing the public's behaviors and practices to reduce stormwater pollution.

Survey Assessment

Surveys given at events help us gauge what messages should be given more or less emphasis in our outreach program and how to best reach community members with our outreach campaigns. A summary of survey results from the last five years (167 total) and their associated impact to the program are included below.

Surveys can be helpful, but also have sampling bias and response bias, which is why surveys are just one tool to use when assessing outreach efforts.

TABLE 1: ASSESSMENT OF WEBSITE VIEWERSHIP

Question	Answer Options	Total Response #	Conclusions of Results
Stormwater has a negative effect on	Strongly disagree	2	- The general public seems to understand that stormwater negatively affects surface waters
	Disagree	8	
	Neutral	25	

water quality in the Boise River	Agree	84	- Continue to communicate negative effects of stormwater pollution
	Strongly Agree	23	
Stormwater gets treated at Boise's wastewater facilities	True	68	- We need to better communicate that stormwater does not get treated at a facility
	False	74	
Circle the activities you currently practice at home to reduce stormwater pollution	Pick up dog poop	65	- These results will guide future outreach efforts based on the number of people that report doing or not doing each activity - This question also has bias since not everyone has a dog, irrigates, has a car, has a yard, etc., which can be taken into account when developing outreach materials
	Rake leaves	114	
	Irrigate Efficiently	97	
	Xeriscaping	31	
	Take car to car wash	103	
	Clean oil/grease spills	51	
	Follow fertilizer directions	72	
How familiar are you with Partners for Clean Water?	Not at all	13	- Partners will continue promoting our organization and our stormwater pollution hotline, where the community can report illicit discharges and stormwater complaints.
	Unfamiliar	25	
	Somewhat familiar	78	
	Very Familiar	26	
Are you interested in learning more about stormwater?	Yes	130	- The general public seems very interested in stormwater topics
	No	12	
What is the best way for you to receive information?	Social media	98	- The general public receives information depending on various factors such as age, profession, socioeconomic status, etc. - Continue promoting the Partners website and social media outlets - Since these were given at public events, this answer is biased, but still relevant - Continue to create outreach materials such as brochures and items to hand out.
	Websites	107	
	Mailers	54	
	Brochures	92	
	Events	113	
	TV/Radio	91	

Website Assessment

TABLE 2: ASSESSMENT OF WEBSITE VIEWERSHIP

Permit Year	Total Viewers	Total Views	Source of Click					
			Direct	Google	Boise Dev	City of Boise	Boise Newsletter	Other
Year 1 (2022)	2,790	3,376	58.20%	22.90%	--	--	--	18.90%
Year 2 (2023)	3.360	5,113	29.30%	8.20%	53.60%	6.00%	--	2.90%
Year 3 (2024)	5,046	32,775	23.50%	13.70%	38.60%	4.00%	7.50%	12.70%
Year 4 (2025)	5,161	6,792	46.00%	40.80%	2.70%	4.00%	2.00%	4.50%

This website data will help direct our media campaign by determining which avenues are most engaging to our viewers. In Year 3, most of our outreach budget was given to our media campaign, as well as the longest amount of time ads appeared on Boise Dev. This is reflected in the numbers of clicks and views that year. We will continue having a strong media presence in the future, as well as using budget to create new ways to promote our website.

Permit Year 5 is not included in this assessment yet, since we have not concluded our media campaign for the year.

5. Tracking

A tracking spreadsheet is used by the City of Boise to track and maintain all records of our stormwater education and outreach activities, events, and trainings. This spreadsheet is shared with other permittees during regularly scheduled permittee meetings and is open to feedback and discussion. The tracking spreadsheet is used to compile the annual report.

6. Education on SWMP Control Measures

Construction Site Runoff Control Training

To provide the regional construction community with erosion and sediment control and stormwater pollution prevention education, the City and our Partners have developed the Erosion and Sediment Control (ESC) Responsible Person (RP) training and certification program. The class promotes awareness of the impact of polluted construction site runoff and soil erosion on the MS4 and the Boise River. The class curriculum covers local and state stormwater regulations, principles of ESC Best Management Practices (BMPs), installation and maintenance of common erosion and

sediment controls, fugitive dust control, stormwater pollution prevention practices, dewatering, how to conduct the required construction site inspections and updating the ESC plan or SWPPP for the site.

The instructors for the City Responsible Person classes must be qualified and approved by the City. Instructors are required to submit a resume to the City detailing their educational history and experience in erosion control. They must also be able to demonstrate knowledge of the principles of erosion; sediment transport; erosion and sediment control technology, implementation, and maintenance; and local and federal ordinances regulating erosion and sediment control.

Courses are offered through third party entities: Engineering with a Mission LLC, Eagle One LLC, Jones Erosion Control, the College of Western Idaho, and Syman Company throughout the year in various locations in the Treasure Valley as well as online offerings. Boise State University's Construction Management Program also presents the class material to their students, who may receive certification if desired. Additionally, the Nampa school district has a vocational construction site program that utilizes the ESC training presentation. The ESC Inspectors also present the RP course quarterly to train local agency personnel involved in construction projects so that they may implement BMPs on public projects and notify ESC Inspectors if they see runoff pollution and other violations at construction sites. As part of the training participants receive education materials including an illustrated ESC Field Guide to Best Management Practices specific to Idaho.

Construction site operators and contractors must renew their RP certification every 3 years by attending the training and passing an examination. The class is updated regularly to present new ideas and methods in ESC and SWPPP. The Planning and Development permitting system maintains a database of certified RPs. The database is utilized by the City of Boise, ACHD, Garden City, the City of Nampa, and City of Caldwell to verify that construction sites have an individual with ESC training onsite. The RP name and contact information is required to be listed prior to permit issuance, and the RP must have operational control to make corrective actions and knowledge to implement BMPs and work with ESC Inspectors to keep sites in compliance.

At the time of writing this report (August 2026), 483 Responsible Person licenses have been issued or renewed in Permit Year 5.

City staff provide ongoing awareness, education and outreach through the website, annual events, and also can provide site specific training as needed to interested parties and industry groups.

Permanent Stormwater Controls Training

In September 2026, the Partners conducted a permanent stormwater controls training at the Bown Library. The goal of this training is to provide guidance to local audiences on the operation and maintenance activities required to be performed on various stormwater facilities. The training emphasized the importance of maintaining stormwater facilities to prevent stormwater pollution. It covered local ordinances, O&M requirements, and context for property O&M agreements.

7. Publicly Accessible Website

The City of Boise, on behalf of the Partners for Clean Water, maintains a website that educates the public on stormwater issues for multiple audiences. The website is a key source for stormwater information in Boise and the Treasure Valley.

The website contains relevant contacts for each permittee, as well as each permittee's annual reports, SWMPs, and other relevant compliance and regulation materials. The Intergovernmental Agreement (IGA) that outlines permittee responsibilities is posted, as well as the IPDES permit and the MS4 map. Regularly scheduled permittee meeting agendas and meeting notes are also posted.

The website has topics for varying target audiences, such as homeowners, pet owners, engineers, surveyors, developers, mobile businesses, landscapers, and property maintenance companies. Manuals, checklists, fact sheets and guidance documents are organized into the target audience's respective pages. Individual permittee sites are also linked for more information. Information regarding training, events, and other topics pertinent to educating the community on how to reduce stormwater pollution is easily accessible.

The website continues to be an important way to educate our target audiences and provide a central location for public education and permit compliance information. The Partners continuously develop new outreach materials to post on the website and hand out at events. QR codes that link to the Partners website are often printed on outreach materials.

Attachment B

ACHD GSI Program Activities and Project Descriptions

Table 1. Phase I ACHD-Owned Vegetated Basins and Bioretention Swales 2016 – 2026

#	STORMWATER FACILITY ID	FACILITY TYPE	NEAREST INTERSECTION	AREA (SQFT)	YEAR BUILT	STRUCTURAL RETROFIT DATE	VEGETATION RETROFIT DATE	NEW GSI VEGETATION INSTALLATION DATE	CITY
1	Basin 63	Detention-Dry	W Albion St & S Garden St	10,924	1997	-	2019	-	Boise
2	Basin 65	Detention-Wet	W Ustick Rd & N Curtis Rd	143,161	1997	-	TBD	-	Boise
3	Basin 322	Detention-Dry	W Airway Ct & S Cole Rd	37,764	2003	-	2018	-	Boise
4	Basin 327	Retention-Wet	E Boise Ave & S Betsy Ross Wy	15,199	1976	2022	2022	-	Boise
5	Basin 331	Detention-Dry	N Steelhead Wy & W Emerald St	21,432	2007	-	2018	-	Boise
6	Basin 332	Detention-Dry	W Irving St & N Maple Grove Rd	23,462	2007	-	2018	-	Boise
7	Basin 333	Detention-Wet	N Maple Grove & Hyatt Wetlands Park	20,856	2006	-	TBD	-	Boise
8	Basin 334	Retention-Dry	W Ustick Rd & N Chatterton Wy	38,883	2006	-	2019	-	Boise
9	Basin 364	Retention-Dry	N Cloverdale Rd & W Halstead St	59,049	2008	-	2025	-	Boise
10	Basin 371	Retention - Dry	W Victory Rd & S Fry St	157,482	2004	-	TBD	-	Boise
11	Basin 605	Detention-Dry	W Franklin Rd & Electric Ave	647,495	2011	2025	2025	-	Boise
12	Basin 628	Retention-Dry	N Five Mile Rd & W Milclay St	19,531	2012	-	2016	-	Boise
13	Basin 674	Retention-Dry	858 N Whitewater Park Blvd	18,764	2013	-	2018	-	Boise
14	Basin 677	Detention-Dry	N Pierce Park Ln & W Hammermill Dr	14,680	2013	-	2017	-	Boise
15	Basin 685	Detention-Dry	W Emerald St Dr & N Five Mile Rd	17,508	2014	-	2017	-	Boise
16	Basin 694/695	Retention-Dry	W Hill Rd & W Catalpa Dr	8,013	2013	-	2018	-	Boise
17	Basin 696	Retention-Dry	W Hill Rd & N 36th St	5,757	2016	-	2017	-	Boise
18	Basin 697	Retention-Dry	E Gowen Rd & S Eisenman Rd	5,144	2016	-	2018	-	Boise
19	Basin 882	Retention-Dry	E Gowen Rd & S Eisenman Rd	3,586	2016	-	2018	-	Boise
20	Basin 883	Retention-Dry	E Gowen Rd & S Eisenman Rd	3,440	2016	-	2018	-	Boise
21	Basin 1321	Detention-Wet	N Veterans Memorial Pkwy & W Glendale Rd	31,652	2019	-	2019	-	Boise
22	Basin 1324	Detention-Dry	N Cloverdale Rd & W Bowmont St	11,992	2019	2022	2019	-	Boise
23	Basin 1338	Retention-Dry	W Glendale St & N Stilson Rd	4,399	2019	-	2018	-	Boise
24	Basin 1339	Retention-Dry	W Alameda St & N Veterans Memorial Pkwy	14,951	2019	-	2018	-	Boise

#	STORMWATER FACILITY ID	FACILITY TYPE	NEAREST INTERSECTION	AREA (SQFT)	YEAR BUILT	STRUCTURAL RETROFIT DATE	VEGETATION RETROFIT DATE	NEW GSI VEGETATION INSTALLATION DATE	CITY
25	Basin 1370	Retention-Dry	N Arthur St & W State St	2,115	2019	-	2018	-	Boise
26	Basin 1372	Retention-Dry	S Cole Rd & W Lake Hazel Rd	45,619	2019	-	2020	-	Boise
27	Basin 1373	Retention-Dry	W Franklin Rd & N Cole Rd	32,400	2019	-	2020	-	Boise
28	Basin 1374	Retention-Dry	N Cloverdale Rd & W Edna St	18,370	2019	-	2019	-	Boise
29	Basin 1440	Retention-Dry	N Collister Dr & Collister Access	2,786	2019	-	2019	-	Boise
30	Basin 1441	Retention-Dry	N Collister Dr & Collister Access	3,207	2019	-	2019	-	Boise
31	Basin 1714	Retention - Dry	W Executive Dr & N Cloverdale Rd	6,041	2025	-	-	-	Boise
32	Collister Swales	Bioretention Swales	N Collister Dr & W State St	4,746	2019	-	2019	-	Boise
33	Heron Park Swales	Bioretention Swales	E Heron Park & N Adams St	3,661	2023	-	-	2023	Garden City

TBD = To be determined

Table 2. GSI Projects Designed or Constructed 2020 - 2026

#	PROJECT NAME	GSI TYPE	GSI (COUNT)	DESIGNED	CONSTRUCTED	AREA TREATED (ACRES)
1	12th & Idaho (DVS)	Stormwater Tree Cell	2	2022	In Progress	0.34
2	16th & State (DVS)	Stormwater Tree Cell	2	2024	2026	0.29
3	3rd St Streetscape Improvement Project (CCDC)	Stormwater Tree Cell	12	2024	2025	0.34
4	8th Street Bikeway & Streetscapes (CCDC)	Stormwater Tree Cell	1	2024	2025	0.07
5	9th Street Improvements Set 2 (DVS)	Stormwater Tree Cell	1	2024	2025	0.34
6	Bannock Street - 16th to 12th Streetscape Improvements (CCDC)	Stormwater Tree Cell	3	2024	In Progress	0.82
7	Downtown Boise YMCA (DVS)	Stormwater Tree Cell	3	2025	In Progress	1.17
8	Finch on 27th (DVS)	Stormwater Tree Cell	1	2025	In Progress	0.33
9	Idaho Wheat Commission (DVS)	Stormwater Tree Cell	2	2025	In Progress	0.12
10	Linen Blocks on Grove Street (DVS)	Stormwater Tree Cell	24	2022	In Progress	3.17
11	Old Boise Blocks on Grove Street	Stormwater Tree Cell	7	2022	In Progress	0.63
12	Saratoga Apartments (DVS)	Stormwater Tree Cell	4	2022	2026	1.80
13	State & Pierce Park	Bioretention Basin	1	2024	In Progress	0.81
14	State & Pierce Park	Bioretention Swale	28	2024	In Progress	6.39
15	3rd St, Grove to Jefferson St (CCDC)	Stormwater Tree Cell	10	2024	2025	3.4

Note: Capital City Development Corporation (CCDC), ACHD Development Services (DVS)

Table 3. Phase I ACHD GSI Program Updates 2025 - 2026

GSI PROGRAM AREA	GSI PROGRAM ACTIVITY	DESCRIPTION
Inventory	Mapping	Completed the restructuring of ArcGIS's GSI inventory, remove outdated and redundant information, added new GSI types, and improved attribute information to enhance record keeping and maintenance efforts.
	Groundwater & Soil Data	Working to update ArcGIS's groundwater and soil database and mapping to help direct future projects.
Planning & Design	Policy Update	Continued to update ACHD Stormwater Design Tools and approved BMPs to improve stormwater management.
	GSI Special Provisions & Standard Special Provisions Update	Continued to work on updates to ACHD's GSI special provisions (SP) and standard special provisions (SSP) to match policy updates. The SPs and SSP are used to guide the construction of GSI facilities.
	Rapid Implication GSI Projects Plan	Developed a 3-year plan for future projects focused on improving water quality through GSI enhancements, storm drain retrofits and new storm drain installations.
	GSI Strategy Update	Identified actions ACHD has implemented to integrate GSI into ACHD stormwater management.
	Monthly Project Manager Meeting	Established regular meetings with Project Managers to ensure all project designs meet federal, state, and local stormwater regulations and ACHD Policies 8000 and 8200.
Training & Coordination	GSI Mapping Guide	Developed a guide to assist the GIS Team with mapping GSIs from As-Builts/Record Drawings.
	GIS Training	Provided training to GIS Staff on GSI identification, design, function, and mapping.
	Permeable Paver Training	Evaluated Concrete Masonry and Hardscapes Association's Permeable Interlocking Concrete Paver Installer Course for use as training material for ACHD Maintenance and Inspection Staff.
Partnerships & Collaboration	Boise Streetscape Manual	Working with Boise City and other public entities to incorporate GSI into Boise City’s Streetscape Manual.
	Chinden Corridor Drainage Plan	Reviewed and provided feedback to Idaho Transportation Department's and City of Garden City's stormwater management plan for the Chinden corridor.
	Stormwater Tree Cells	Continued to improve communication and collaboration with Boise City regarding the design and installation of tree cells.
	Owl Nesting Boxes	Collaborated with Ada Soil & Water Conservation District to install owl nesting boxes in select stormwater basins to assist with mitigating rat populations in Ada County.

Attachment C:

ACHD Stormwater Outfall Monitoring Summary

Stormwater Outfall Monitoring Summary

Water Year 2026

Prepared by
Ada County Highway District
September 2026

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1 Introduction

Ada County Highway District (ACHD), Boise State University, City of Boise, City of Garden City, Drainage District #3, and the Idaho Transportation Department District #3 (Permittees) were issued a third-cycle National Pollutant Discharge Elimination System (NPDES) Phase Permit #IDS027561 (Permit), effective October 1, 2021. The Permit authorizes the Permittees to discharge from municipal separate storm sewer system outfalls to the Boise River and its tributaries. According to Permit Part 6.2.1, *Wet Weather Stormwater Outfall Monitoring*, Permittees are required to monitor wet weather stormwater discharges according to the *NPDES Phase I Stormwater Outfall Monitoring Plan* (SWOMP) (ACHD, 2022). Per Permit Part 6.4.3, the Permittees submitted the *Wet Weather Stormwater Outfall Monitoring Summary Report 2021-2026*, March 2026, as a final report summarizing all wet weather monitoring data collected during the Permit cycle (Permit years 1-4) as part of the Permit Renewal Application. The following summary covers wet weather outfall monitoring activities during water year (WY) 2026 (October 1, 2025 – September 30, 2026). WY 2026 represents the fifth year of monitoring under the Permit cycle.

The SWOMP was developed in line with the *Quality Assurance Project Plan for NPDES Stormwater Permit Monitoring* (QAPP) (ACHD, 2023) and describes the overall approach to stormwater outfall monitoring. Details about specific site characteristics, equipment, data collection and sample handling procedures, analytical methods, and quality assurance/quality control methodology are found in the SWOMP.

In WY 2026, data collection for the Stormwater Outfall Monitoring Program included precipitation, flow, and water quality samples. Four outfall monitoring sites within the Permit area (Lucky, Whitewater, Main, and Americana) were monitored for flow and water quality. The water quality samples were collected from wet weather discharges and included grab samples with corresponding field parameters and composite samples, which were collected throughout the duration of a storm. A flowmeter was installed up-pipe at the Main Alternate site when high river flows surcharged the Main outfall monitoring site in spring 2026. Grab samples and associated flow data were collected at Main Alternate during the April 22, 2026, storm event. Additionally, four rain gauge sites (East, Front, Cynthia Mann, and Whitewater) were maintained to provide localized precipitation data. Each rain gauge location represents at least one of the monitored subwatersheds and was used to verify that storm criteria were met. The data presented were collected between October 1, 2025, and June 30, 2026, to allow time for data to be analyzed and included in this annual report. All Phase I raw monitoring data collected since the submission of ACHD's *NPDES Phase I Municipal Stormwater Permit Reapplication,* March 2026 (October 1, 2021 – January 31, 2026) will be submitted as an Excel spreadsheet and uploaded to the IDEQ E-Permitting portal as part of ACHD's Phase I NPDES Annual Report.

2 Monitoring Sites, Equipment, and Sample Type

The Stormwater Outfall Monitoring Program consists of four monitored subwatersheds: Lucky, Whitewater, Main, and Americana. Monitoring stations for each subwatershed are located near the outfalls with dedicated equipment installed at each location. Table 2-1 depicts the equipment types and referenced rain gauge site for each subwatershed. A vicinity map illustrating the location of each subwatershed, monitoring station, and rain gauge site is found in Figure 1 (Appendix A).

Table 2-1. Monitoring Station Equipment				
Monitoring Site	Lucky	Whitewater	Main/Main Alt	Americana
Sampler type	Hach® AS950	ISCO® 6712	ISCO® 6712	ISCO® 6712
Flowmeter type	Hach® AV9000	ISCO® Signature®	ISCO® Signature®	ISCO® Signature®
Referenced rain gauge	Cynthia Mann	Whitewater	Front	Front and East
Rain gauge equipment types	Global Water® tipping bucket/HOBO® event logger	Hach® tipping bucket/ISCO® Signature®	Global Water® tipping bucket/HOBO® event logger	Global Water® tipping bucket/HOBO® event logger

2.1 Sample Types

The sample types collected during WY 2026 included grab samples and composite samples. Grab samples represent a discrete measurement from the overall storm discharge while composite samples represent the entire discharge.

Grab samples were manually collected using a swing sampler. The grab samples were submitted to the Boise City Public Works Water Quality Laboratory (WQL) and analyzed for *E. coli*. At the time that the *E. coli* grab samples were collected, field parameters (temperature, pH, dissolved oxygen [DO], and conductivity) were measured using In-Situ® Aqua TROLL® 400 multiparameter probes.

Composite samples were collected using automatic samplers, which worked in conjunction with flowmeters. After a predetermined volume of flow was discharged, the flowmeters triggered the samplers to collect a subsample. Each subsample was deposited into a 15-liter carboy, resulting in a flow-proportional composite sample. The composite samples were submitted to the WQL, where they were split for analysis. The following constituents were analyzed during WY 2026: biological oxygen demand, 5-day (BOD_5); chemical oxygen demand (COD); chloride; hardness as calcium carbonate ($CaCO_3$); turbidity; total suspended solids (TSS); total dissolved solids (TDS); total phosphorus as P (TP); orthophosphate, as P (ortho-P); ammonia, as N; nitrate + nitrite, as N; total Kjeldahl nitrogen (TKN); total arsenic; dissolved and total cadmium; dissolved copper; dissolved and total lead; total mercury; and dissolved zinc.

3 Stormwater Outfall Monitoring Results

Wet weather stormwater samples were collected according to the procedures listed in the SWOMP. One of the goals in the SWOMP is to collect three accepted (unqualified) grab and composite samples from each monitoring station during each water year. In WY 2026, samples were attempted during five storms to meet this goal. A summary of the storm dates and sample types collected is shown in Table 3-1. Storm setup and sampling information are included in Table 1 (Appendix B). Storm Event Reports were created after each stormwater sampling event to document the SWOMP status and discuss the hydrological and analytical data from the grab and composite samples. These Storm Event Reports include details about the storm and weather monitoring, hydrographs, sample collection times, and water quality results. Individual Storm Event Reports for the five sampling events during WY 2026 are included in Appendix C.

Table 3-1. Storm Events and Sample Types					
Date	Lucky	Whitewater	Main	Main Alt	Americana
October 25, 2025	--, C	--, C[1]	--, C	--, --	--, C
December 4, 2025	G[2], C	G[2], C	G[2], FD[2], FB[2], C	--, --	G[2,3], --
February 16, 2026	G[2], FD[2], FB[2], C	G[2], C	G[2], C[1]	--, --	G[2], C
March 31, 2026	G, FD, FB, --	G, C[1]	G, C	--, --	G, C
April 22, 2026	G, --	G, C, CD	--, --	G, FD, FB --	G, --

-- = No data

Sample types: G = grab, C = composite

QC Sample types: FD = field duplicate grab, FB = field blank grab, CD = lab duplicate/composite split

[1] Composite sample qualified due to lack of representativeness (50%–75%).

[2] E. coli sample qualified due to exceeded hold time (>8 and <16 hours).

[3] Data rejected due to insufficient rainfall at the time of sample collection.

Field parameter results are presented in Table 2 and analytical results are presented in Table 3 (Appendix B). Graphical representation of the analytical results is provided in Figures 2–5 (Appendix A). The following assessment provides minimum and maximum measured values for WY 2026. Qualified data are included in the range of measured/reported values as well as the data analysis. All measurements were recorded in accordance with QAPP and SWOMP procedures.

DO and oxygen demand

- DO ranged from 5.468 to 10.55 milligrams per liter (mg/L).
- Biological oxygen demand, 5-day (BOD_5) concentrations ranged from 10.8 to 43.9 mg/L.
- Chemical oxygen demand (COD) concentrations ranged from 60.0 to 162 mg/L.

pH, temperature, conductivity, and hardness

- pH values ranged from 7.059 to 7.998 standard units (S.U.).
- Temperature ranged from 8.104 to 14.78 degrees Celsius (°C).
- Conductivity ranged from 56.25 to 751.2 micro-siemens per centimeter (µS/cm).
- Hardness ranged from 15.2 to 92.8 mg/L as calcium carbonate ($CaCO_3$).

Bacteria

- *E. coli* ranged from 23.1 to 141,360 most probable number per 100 milliliters (MPN/100mL).

Sediment

- Turbidity ranged from 15.7 to 33.9 nephelometric turbidity units (NTU).
- TSS ranged from 9.33 to 154 mg/L.
- TDS ranged from 41.2 to 203 mg/L.

Nutrients

- Ammonia, as N ranged from 0.199 to 1.31 mg/L.
- Chloride ranged from 1.67 to 49.2 mg/L
- Nitrate + nitrite, as N ranged from 0.190 to 1.10 mg/L.
- TKN ranged from 0.851 to 3.38 mg/L.

Phosphorus

- TP ranged from 0.156 to 0.820 mg/L.
- Ortho-P ranged from 0.0511 to 0.638 mg/L.

Metals

- Total arsenic ranged from 1.1 to 4.4 micrograms per liter (µg/L).
- Dissolved cadmium ranged from below the MDL (< 0.010) to 0.020 µg/L.
- Total cadmium ranged 0.023 to 0.15 µg/L.
- Dissolved copper ranged from 0.0140 to 7.2 µg/L.
- Dissolved lead ranged from 0.058 to 0.34 µg/L.
- Total lead ranged from 0.46 to 9.4 µg/L.
- Total mercury ranged from below the MDL (< 0.006) to 0.0205 µg/L.
- Dissolved zinc ranged from 10.7 to 43.4 µg/L.

3.1 Monitored Event Pollutant Loading Results

Pollutant loading estimates in pounds per acre (lbs/ac) were calculated for the following constituents of concern: TSS; TP; ammonia, as N; nitrate + nitrite, as N; and TKN. The reported concentrations were combined with runoff volumes measured during the storm event at each monitoring station. Formulas that were used, including conversion factors to estimate the loading in lbs/ac, are described in the SWOMP. Table 4 (Appendix B) presents the estimated pollutant loading of the constituents for each monitored storm. The pollutant loading contributions for each site are shown graphically in Figure 6 (Appendix A). Table 5 (Appendix B) is a summary of event loading estimates in pounds per acre for comparison between monitored drainage areas. A summary of the estimated ranges of pollutant loading for the storm events monitored during WY 2026 is presented below.

- TSS loading estimates ranged from 0.0352 to 1.943 lbs/ac.
- TP loading estimates ranged from 0.00100 to 0.0168 lbs/ac.
- Ammonia, as N loading estimates ranged from 0.000606 to 0.0140 lbs/ac.
- Nitrate + nitrite, as N loading estimates ranged from 0.000790 to 0.0106 lbs/ac.
- TKN loading estimates ranged from 0.00491 to 0.0648 lbs/ac.

3.2 Precipitation Results

Precipitation data from the Cynthia Mann, Whitewater, Front, and East rain gauges were used to verify that rainfall totals met storm criteria during WY 2026. Each monitoring station is associated with a rain gauge. Precipitation data recorded for each of the targeted storms can be found in Table 1 (Appendix B). Monthly totals for WY 2026 are shown in Figure 7 (Appendix A).

4 Quality Assurance/Quality Control

Quality assurance (QA) and quality control (QC) measures for the Stormwater Outfall Monitoring Program are presented in detail in the QAPP and SWOMP. No deviations from the QAPP and SWOMP occurred during WY 2026. QA and QC measures conducted during the water year are discussed below.

4.1 Data Quality Discussion

A data validation review process was used to evaluate the analytical and field parameter results. These

checklists were used to compare monitoring methods and monitoring data collected against performance criteria established to meet the data quality objectives described in the QAPP. Field parameter results and analytical results that were qualified or rejected are identified in Tables 2 and 3 (Appendix B), respectively. Further information regarding qualified samples is included in the Storm Event Reports located in Appendix C.

The following program criteria are used to identify storm events and representative composite samples.

- Storm criteria are met when the precipitation amount is greater than 0.10 inch, and the storm was preceded by a minimum 72 hours of dry weather from the previous measurable storm event (rainfall greater than 0.10 inch).
- Composite samples are considered representative of stormwater runoff when aliquots represent at least 75 percent of total runoff volume from the storm or greater than 6 hours of the storm, including the first hour of runoff.

For WY 2026, samples collected during the following storm events were qualified or rejected for reasons discussed below:

October 25, 2025

- The composite sample collected at the Whitewater monitoring station on October 25 was qualified due to lack of representativeness.

December 4, 2025

- The *E. coli* grab samples collected from the Lucky, Whitewater, Main, and Americana monitoring stations on December 4 were qualified due to exceeded hold time.
- The *E. coli* and field parameter grab samples collected at the Americana monitoring station were rejected due to a lack of rainfall at the time of sample collection.

February 16, 2026

- The *E. coli* grab sample collected at the Lucky, Whitewater, Main, and Americana monitoring stations on February 16 were qualified due to exceeded hold time.
- The composite sample collected at the Main monitoring station on February 16 was qualified due to lack of representativeness.

March 31, 2026

- The composite sample collected at the Whitewater monitoring station on March 31 was qualified due to lack of representativeness.

4.2 QC Sample Results

Quality control sampling during WY 2026 consisted of field QC samples and laboratory QC samples. Field QC sampling intervals followed a predetermined schedule, included in the SWOMP. Laboratory QC samples are included in each analytical report attached in the Storm Event Reports (Appendix C). Sample results for all field QC samples are included in Table 6 (Appendix B).

4.2.1 Field QC Samples

Field QC samples include field duplicate grabs, field blank grabs, field blank composites, laboratory duplicates, equipment blanks, and rinsate blanks.

Field Duplicate Grabs

Field duplicate grabs are taken alongside a parent grab sample to compare the accuracy of the data. For *E. coli,* the acceptable logarithmic relative percent difference (RPD) between the duplicate sample and the parent sample is 40 percent for values where the parent and duplicates are greater than 10 MPN/100mL. All field duplicate samples collected during WY 2026 met the RPD standard.

Field Blank Grabs and Field Blank Composites

Analytical results from field blank grabs and field blank composites are expected to be less than the MDL. If a water quality parameter is detected in a field blank grab or composite blank, all analytical results associated with the blank that exhibit a concentration of less than five times the concentration detected in the blank are qualified. All field blank grab samples collected had results less than the MDL. No field blank composites were collected or analyzed in WY26.

Laboratory Duplicates

Laboratory duplicate samples are composite duplicate samples that are split at the WQL. This type of sample serves as a check on the laboratory's ability to representatively split a composite sample and is a test of analytical precision. For all parameters, the acceptable RPD is 20 percent when concentrations are greater than five times the MDL. A laboratory duplicate was completed for the Whitewater monitoring Station on April 22, 2026. The RPD between the parent and the duplicate exceeded 20 percent for TKN. Therefore, the TKN result of the parent sample is considered an estimate.

Equipment Blanks and Rinsate Blanks

Equipment QC samples include an equipment blank and a rinsate blank, both serving as a check on equipment decontamination procedures.

The equipment blank is collected before sampling for the water year begins and when new equipment is installed. For WY 2026, the equipment blanks were collected on September 9, 2025, at the Whitewater and Americana monitoring stations. Dissolved copper and dissolved zinc were detected in the blank collected at Whitewater. Nitrate + nitrite, as N; total arsenic; dissolved copper; and total lead were detected in the blank collected at Americana. All results collected throughout the WY were greater than five times the values detected in the blanks and are unqualified.

The rinsate blank is collected after sampling for the water year has been completed. The rinsate blanks for WY 2026 were collected on June 9, 2026, at the Lucky and Whitewater monitoring stations. Nitrate + nitrite, as N; dissolved copper; and dissolved zinc were detected in the blank collected at Lucky, and dissolved copper and dissolved zinc were detected in the blank collected at Whitewater. The results of the Lucky and Whitewater dissolved copper samples collected on February 16, 2026, were less than five times the values detected in the respective blanks and are qualified. All other samples collected throughout the WY at these monitoring stations had results greater than five times the values detected in the blanks and are unqualified.

Appendix A: Figures

Figure 1. Vicinity Map Phase I NPDES Outfall Sampling Locations

Figure 2. WY 2026 *E. coli* Results (Log Scale)

Figure 3. WY 2026 TSS, TDS, and Turbidity Results

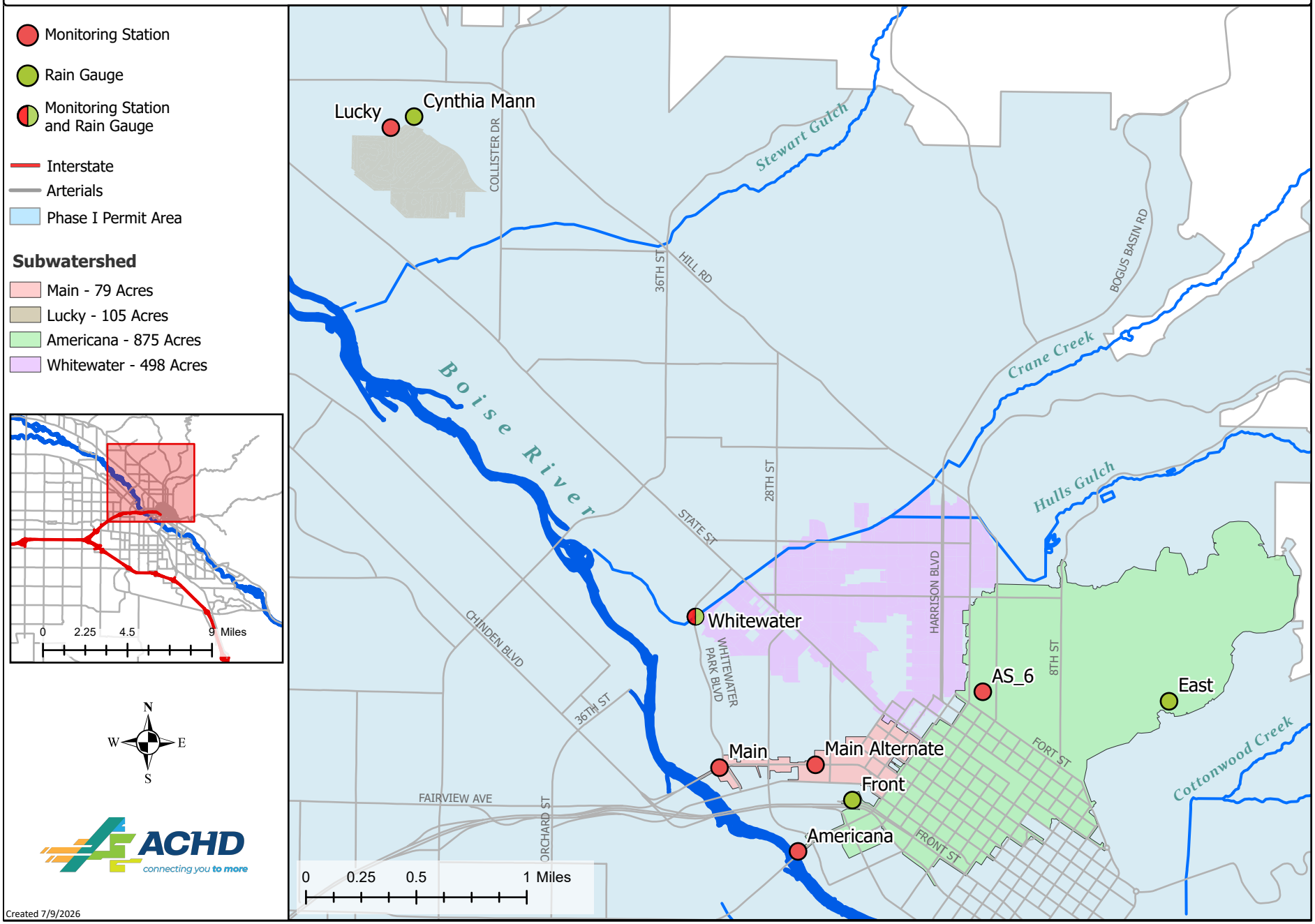
Figure 4. WY 2026 Ammonia, Nitrate + Nitrite, and TKN Results

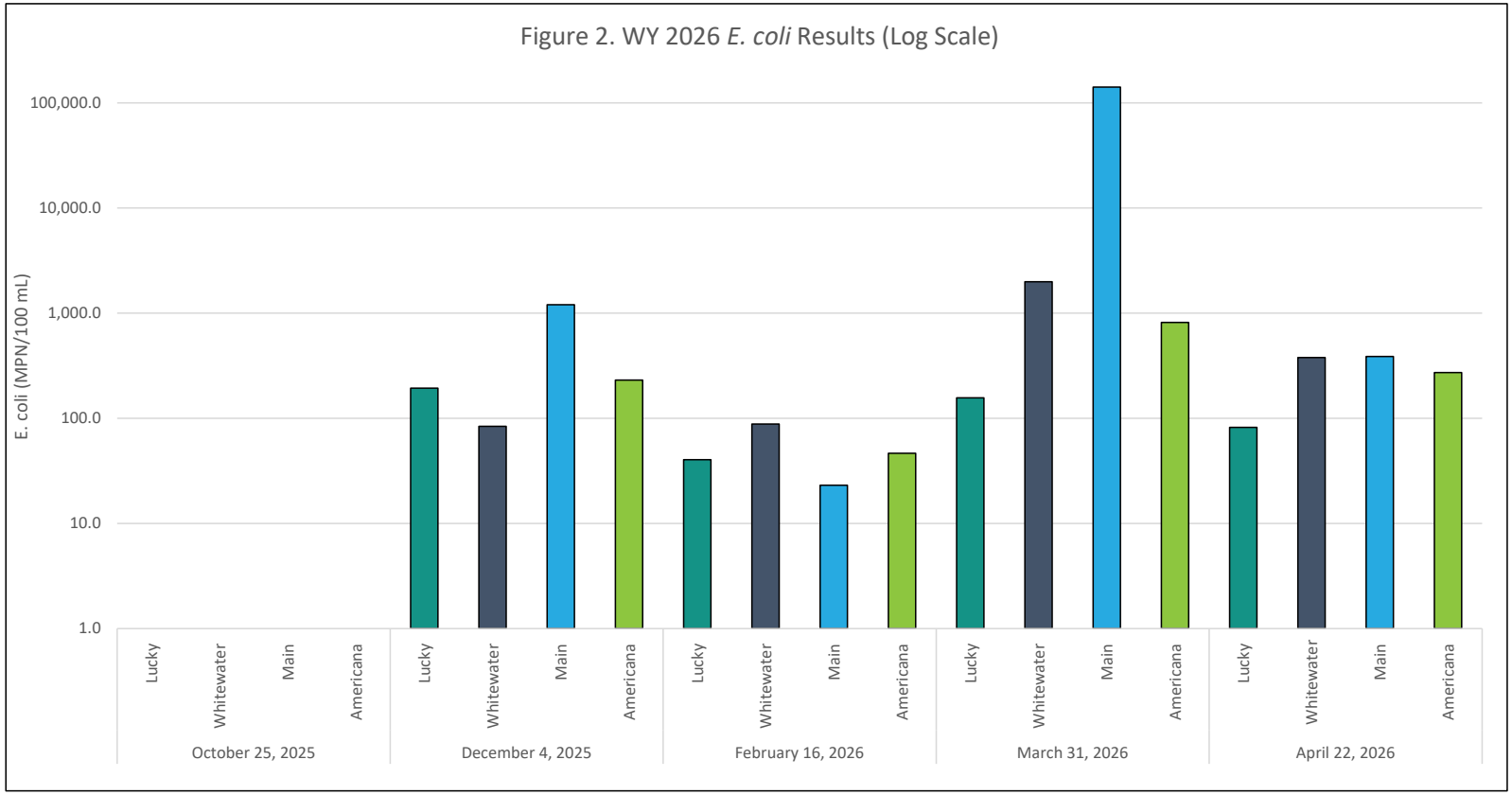
Figure 5. WY 2026 Total Phosphorus and Orthophosphate Results

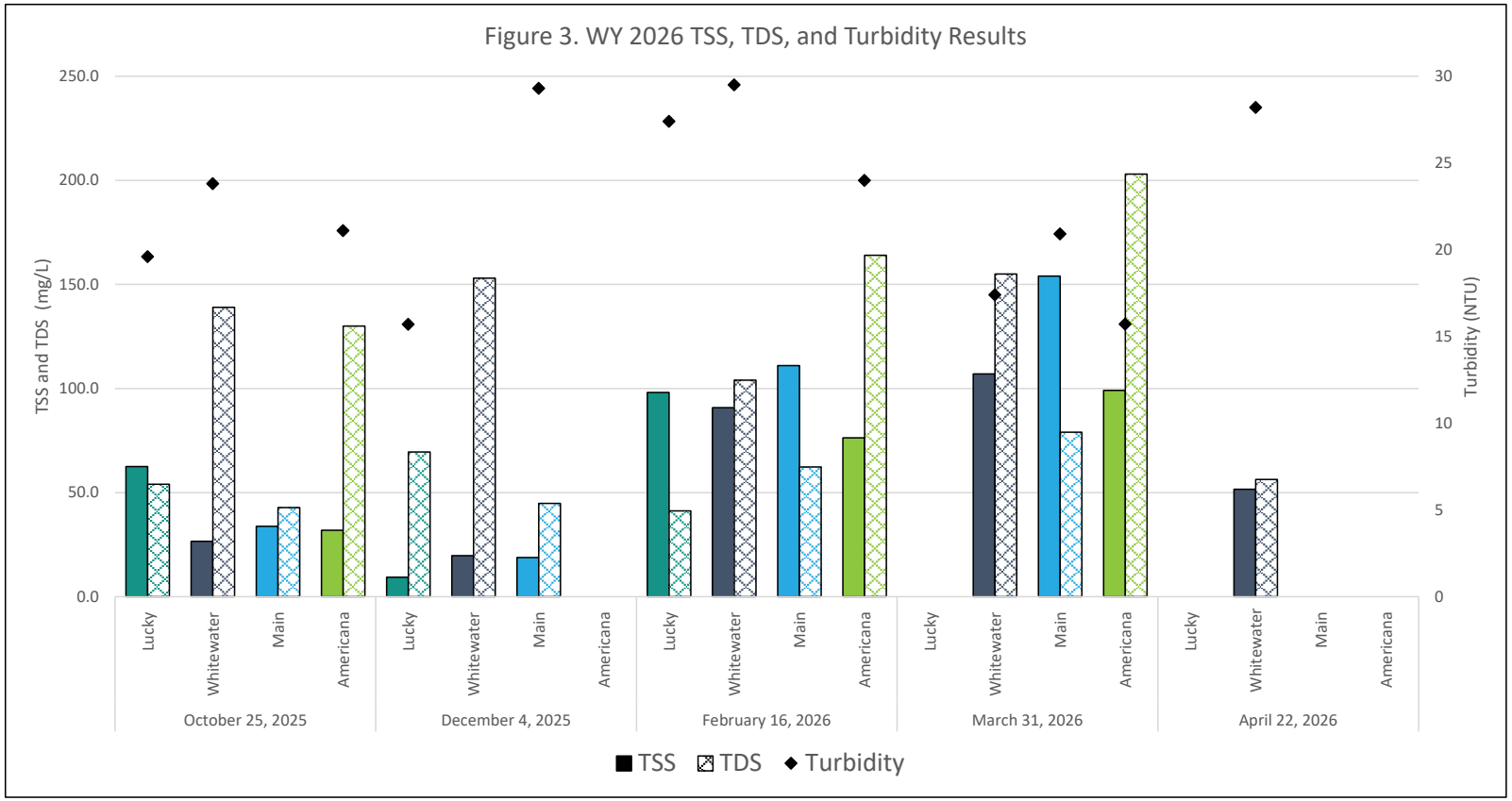
Figure 6. WY 2026 Pollutant Loads

Figure 7. WY 2026 Monthly Precipitation

Figure 1: Vicinity Map
Phase I NPDES Outfall Sampling Stations




Figure 2. WY 2026 E. coli Results (Log Scale)
E. coli (MPN/100 mL)
100,000.0
10,000.0
1,000.0
100.0
10.0
1.0
Lucky
Whitewater
Main
Americana
October 25, 2025
December 4, 2025
February 16, 2026
March 31, 2026
April 22, 2026


Figure 3. WY 2026 TSS, TDS, and Turbidity Results
TSS and TDS (mg/L)
Turbidity (NTU)
250.0
200.0
150.0
100.0
50.0
0.0
30
25
20
15
10
5
0
Lucky
Whitewater
Main
Americana
October 25, 2025
December 4, 2025
February 16, 2026
March 31, 2026
April 22, 2026
TSS
TDS
Turbidity

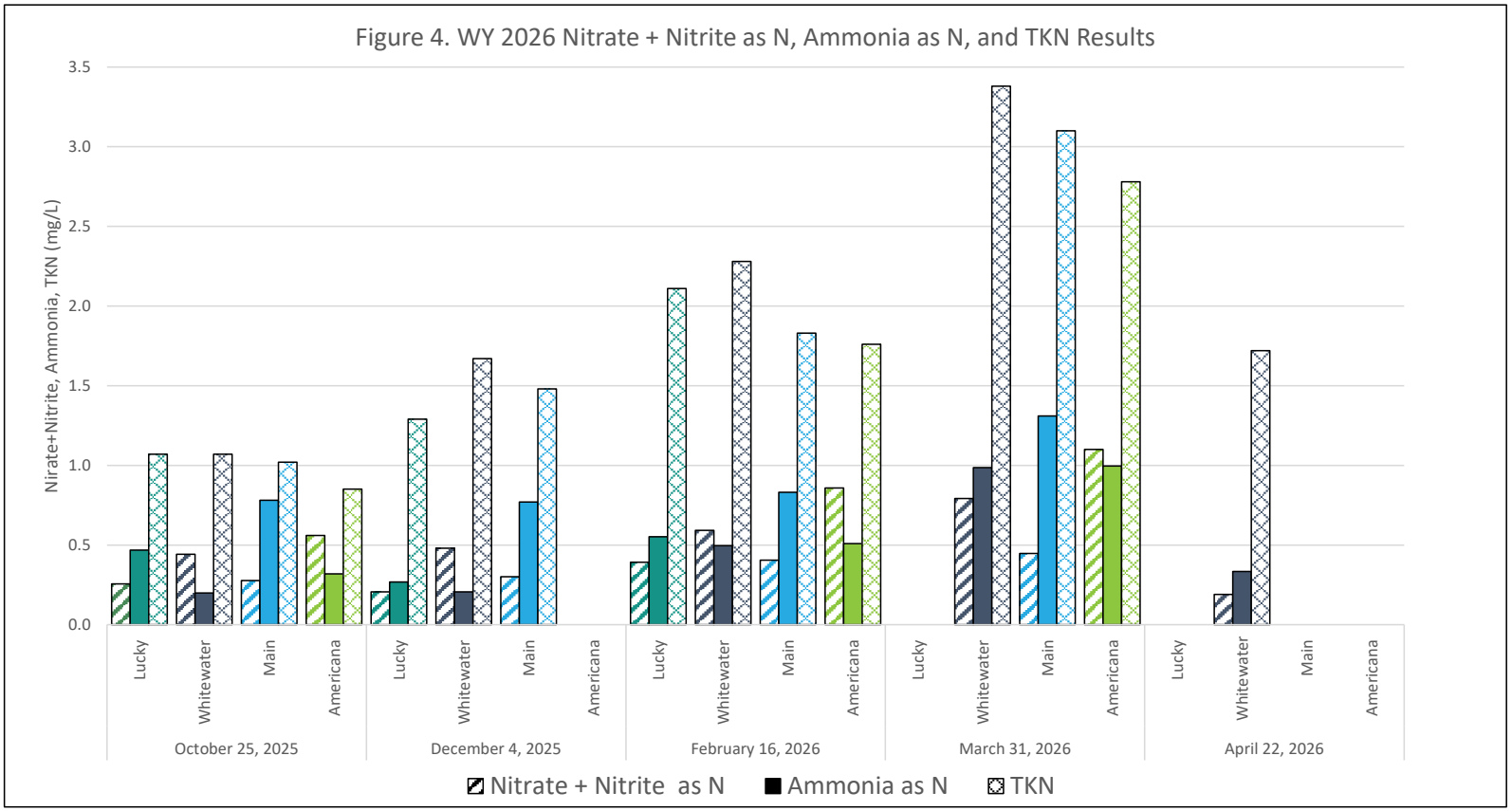

Figure 4. WY 2026 Nitrate + Nitrite as N, Ammonia as N, and TKN Results
Nirate+Nitrite, Ammonia, TKN (mg/L)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Lucky
Whitewater
Main
Americana
October 25, 2025
December 4, 2025
February 16, 2026
March 31, 2026
April 22, 2026
Nitrate + Nitrite as N
Ammonia as N
TKN

Figure 5. WY 2026 Total Phosphorus and Orthophosphate as P Results

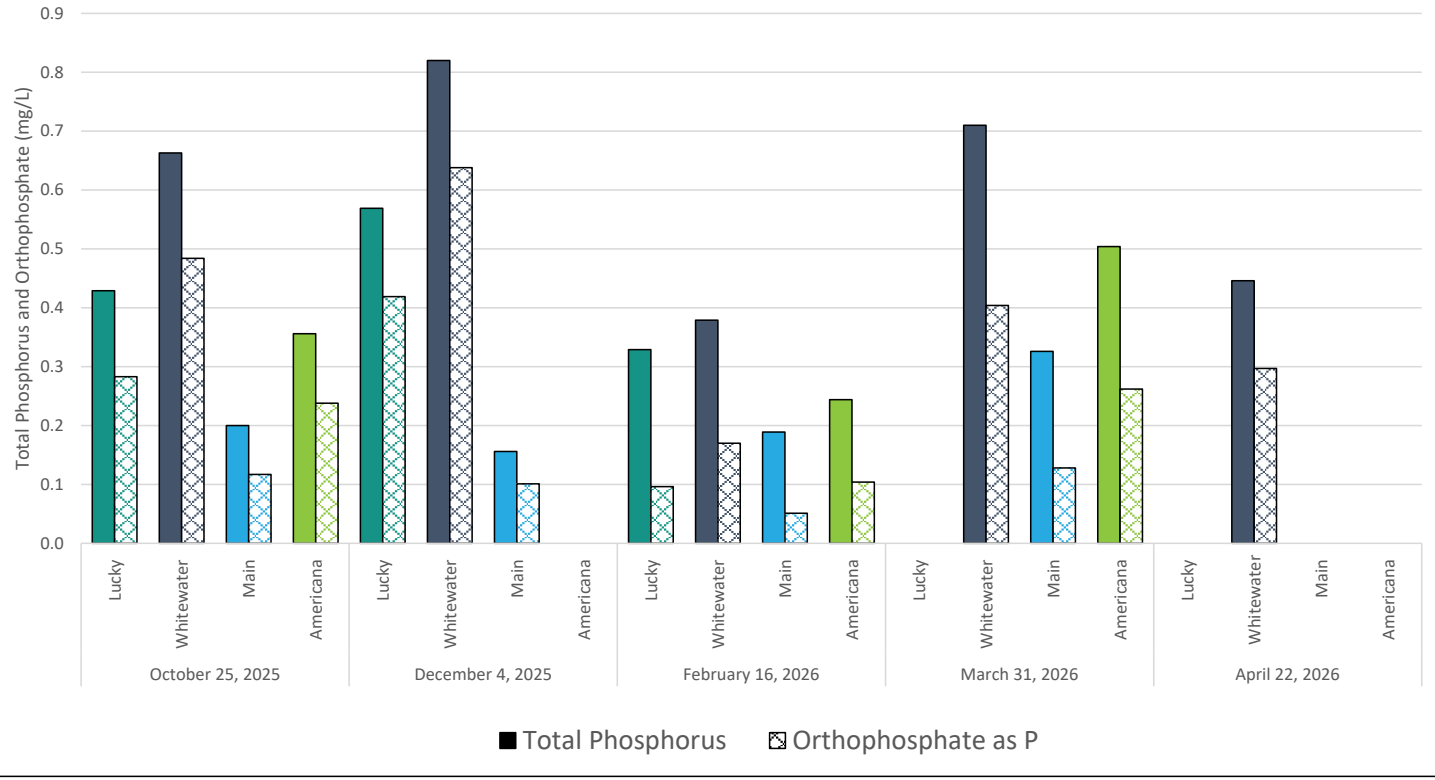
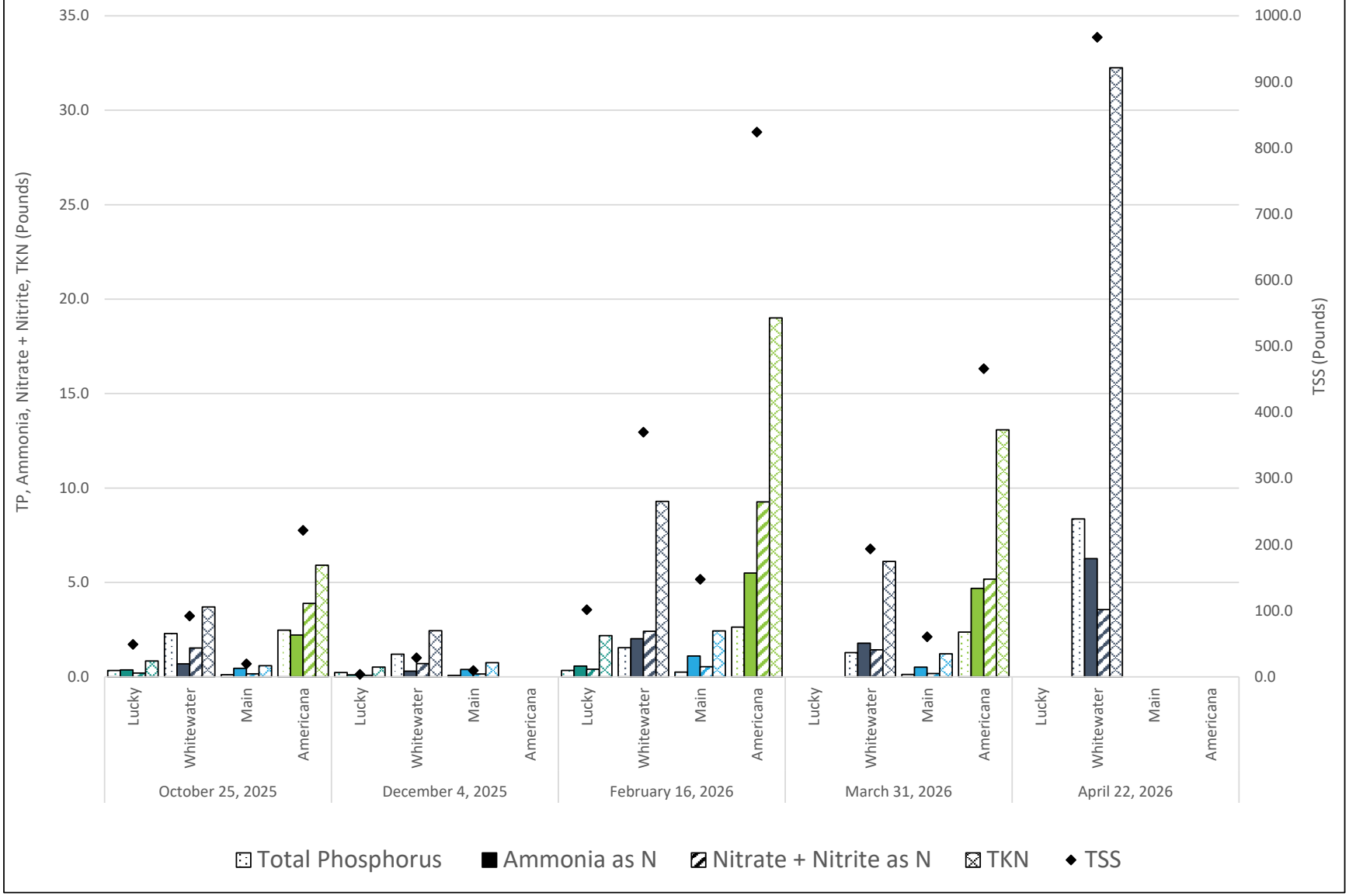
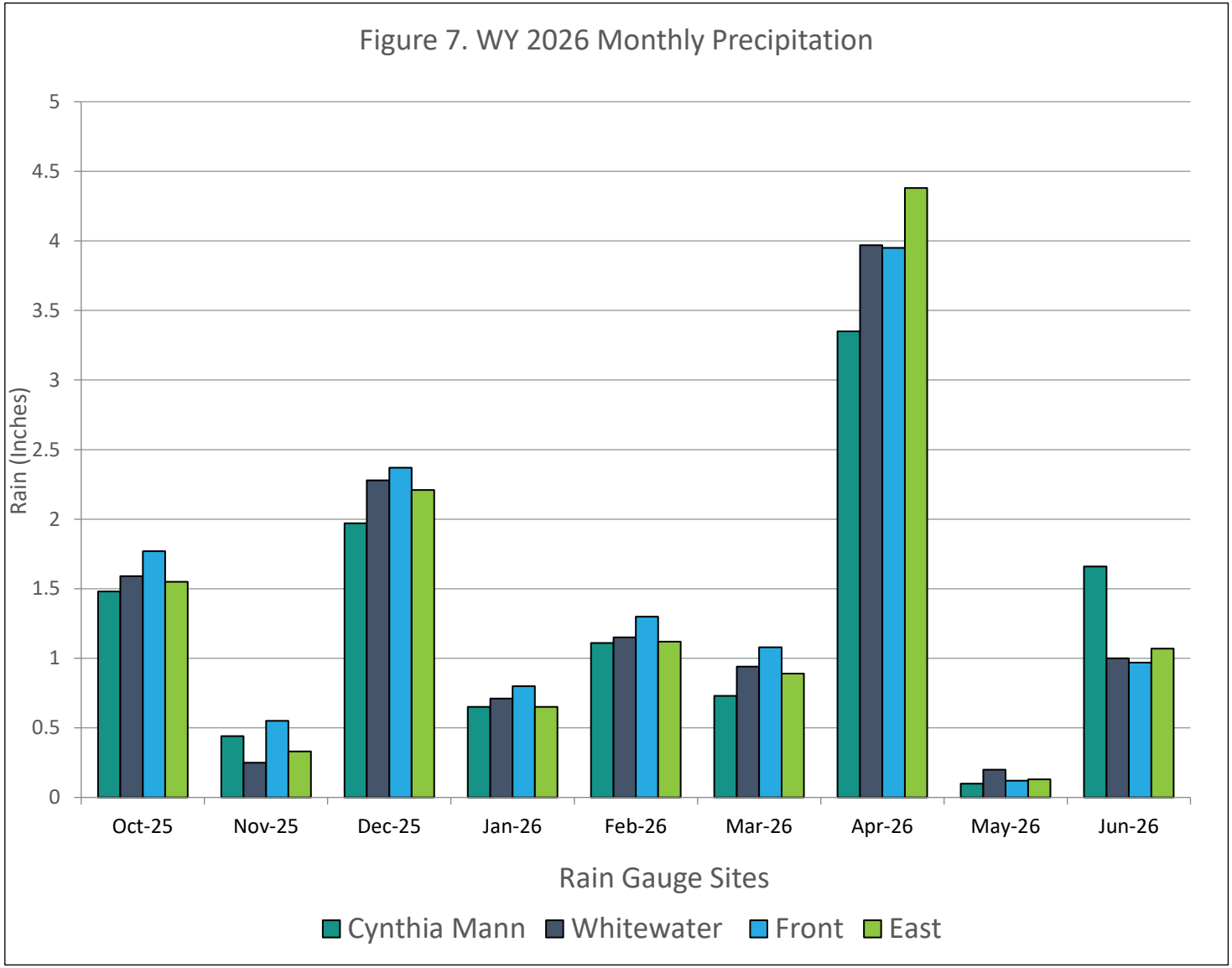


Figure 6. WY 2026 Pollutant Loads





Note:

1. No data was collected at the Cynthia Mann rain gauge from 3/16/2026 - 4/2/2026.

Appendix B: Tables

Table 1. Monitored Storms and Samples Collected

Table 2. Field Parameter Summary

Table 3. Analytical Results Summary

Table 4. Event Loads for Monitored Drainages in Pounds

Table 5. Event Loads in Pounds per Acre

Table 6. QC Sample Summary

Table 1. Monitored Storms and Samples Collected					
Event Date	Sampling Information	Lucky	Whitewater	Main/ Main Alt	Americana
October 25, 2025	Grab samples collected and submitted?	NO	NO	NO	NO
	Composite samples collected and submitted?	YES	YES	YES	YES
	Trigger volume	2,895 gal	801 cf	456 cf	2,960 cf
	Sampler enable condition (in)	Level > 2.95	Level > 4.13	Level > 2.137	Level > 7.50
	Percent of storm flow sampled	80%	73%	93%	91%
	Composite sample duration (hrs.)	3.0	5.5	3.5	7.0
	Storm precipitation (in)	0.32	0.27	0.21	0.21/0.24
December 4, 2025	Grab samples collected and submitted?	YES	YES	YES	YES
	Composite samples collected and submitted?	YES	YES	YES	NO
	Trigger volume	2,895 gal	801 cf	456 cf	2,960 cf
	Sampler enable condition (in)	Level > 2.18	Level > 1.66	Level > 2.2	Level > 6.8
	Percent of storm flow sampled	87%	92%	90%	--
	Composite sample duration (hrs.)	10.0	11.0	9.5	--
	Storm precipitation (in)	0.24	0.28	0.26	0.26/0.30
February 16, 2026	Grab samples collected and submitted?	YES	YES	YES	YES
	Composite samples collected and submitted?	YES	YES	YES	YES
	Trigger volume	2895 gal	801 cf	456 cf	2960 cf
	Sampler enable condition (in)	Level > 1.11	Level > 2.6	Level > 2.2	Level > 5.02
	Percent of storm flow sampled	69%	69%	54%	81%
	Composite sample duration (hrs.)	7.5	9.0	6.0	8.5
	Storm precipitation (in)	0.29	0.33	0.32	0.32/0.33
March 31, 2026	Grab samples collected and submitted?	YES	YES	YES	YES
	Composite samples collected and submitted?	NO	YES	YES	YES
	Trigger volume	--	801 cf	456 cf	2960 cf
	Sampler enable condition (in)	--	Level > 3.06"	Level > 2.263"	Level > 5.5"
	Percent of storm flow sampled	--	64%	88%	91%
	Composite sample duration (hrs.)	--	1.5	4.0	5.5
	Storm precipitation (in)	0.16[1]	0.16	0.16	0.16/0.17
April 22, 2026	Grab samples collected and submitted?	YES	YES	YES	YES
	Composite samples collected and submitted?	NO	YES	NO	NO
	Trigger volume	--	1,821 cf	--	--
	Sampler enable condition (in)	--	Level > 6.35	--	--
	Percent of storm flow sampled	--	71%	--	--
	Composite sample duration (hrs.)	--	7.0	--	--
	Storm precipitation (in)	0.74	0.79	0.84	0.84/0.94

Notes:

-- = No data.

[1] *Cynthia Mann rain gauge data was not collected. An estimated precipitation value was calculated by taking the average of storm precipitation collected at the Phase I rain gauges.*

Table 2. Field Parameter Results					
Event Date	Monitoring Station	Field Parameters			
		Dissolved Oxygen	pH	Conductivity	Temperature
		mg/L	S.U.	µS/cm	°C
October 25, 2025	Lucky	--	--	--	--
	Whitewater	--	--	--	--
	Main	--	--	--	--
	Americana	--	--	--	--
December 4, 2025	Lucky	8.733	7.510	122.7	9.489
	Whitewater	7.864	7.529	447.3	9.846
	Main	10.55	7.998	76.97	8.104
	Americana	9.88[1R]	7.603[1R]	751.2[1R]	10.67[1R]
February 16, 2026	Lucky	7.082	7.515	156.6	12.08
	Whitewater	9.049	7.457	562.5	8.706
	Main	9.33	7.76	270.9	10.28
	Americana	9.33	7.74	505.6	11.86
March 31, 2026	Lucky	8.843	7.505	56.25	12.65
	Whitewater	8.936	7.415	103.5	12.32
	Main	9.724	7.641	103.8	12.00
	Americana	8.725	7.706	564.6	14.39
April 22, 2026	Lucky	5.468	7.059	258.3	12.70
	Whitewater	8.958	7.138	161.4	12.08
	Main Alt	8.447	7.656	119.6	14.78
	Americana	9.404	7.362	146.5	12.78

Notes:

-- = No data.

[1R] *Data rejected due to insufficient rainfall at the time of sample collection.*

Table 3. Analytical Results Summary																						
Event Date	Monitoring Station	Sample ID	Analytical Parameters																			
			E. coli	BOD_5	COD	Chloride	Hardness as CaCO3	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
			MPN/100 mL	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
October 25, 2025	Lucky	251025-03-WC	--	18.9	75.0	2.51	19.2	19.6	62.5	54.0	0.429	0.283	0.468	0.256	1.07	1.21	<0.010	0.0381	3.57	0.0867	0.947	0.0170	38.5
	Whitewater	251025-11-WC	--	43.9[1]	125[1]	16.1[1]	48.6[1]	23.8[1]	26.6[1]	139[1]	0.663[1]	0.484[1]	0.199[1]	0.442[1]	1.07[1]	2.81[1]	<0.010[1]	0.0422[1]	4.58[1]	0.255[1]	2.65[1]	0.0173[1]	20.1[1]
	Main	251025-12-WC	--	13.6	74.0	1.67	15.2	33.1	33.8	42.8	0.200	0.117	0.781	0.277	1.02	2.59	0.0140	0.0571	0.0140	0.218	3.60	0.0195	32.9
	Americana	251025-14-WC	--	24.1	78.0	21.1	54.7	21.1	31.9	130	0.356	0.238	0.319	0.560	0.851	2.80	0.0111	0.0548	3.62	0.0674	2.33	0.0118	22.6
December 4, 2025	Lucky	251204-03-WG/WC	193.5[2]	24.4	86.0	3.29	22.0	15.7	9.33	69.5	0.569	0.419	0.268	0.206	1.29	1.1	0.011	0.023	3.5	0.14	0.46	<0.006	23.2
	Whitewater	251204-11-WG/WC	83.9[2]	31.1	119	25.1	63.0	32.9	19.7	153	0.820	0.638	0.206	0.480	1.67	2.2	<0.010	0.046	3.7	0.34	2.4	0.00826	17.7
	Main	251204-12-WG/WC	1203.3[2]	11.4	60.0	4.35	15.4	29.3	18.8	44.8	0.156	0.101	0.770	0.301	1.48	1.3	0.012	0.040	3.8	0.16	2.1	<0.006	29.4
	Americana	251204-14-WG	231.0[2,1R]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
February 16, 2026	Lucky	260216-03-WG/WC	40.4[2]	12.5	127	2.10	22.1	27.4	98.1	41.2	0.329	0.0963	0.552	0.392	2.11	2.9	<0.010	0.11	1.9[4]	0.092	3.3	0.0205	15.4
	Whitewater	260216-11-WG/WC	88.2[2]	13.0	111	23.8	45.3	29.5	90.8	104	0.379	0.170	0.496	0.592	2.28	2.1	<0.010	0.082	2.4[4]	0.13	6.4	0.0172	10.7
	Main	260216-12-WG/WC	23.1[2]	10.9[1]	125[1]	16.2[1]	23.4[1]	33.9[1]	111[1]	62.3[1]	0.189[1]	0.0511[1]	0.831[1]	0.405[1]	1.83[1]	1.7[1]	0.012[1]	0.13[1]	2.7[1]	0.058[1]	9.4[1]	0.0158[1]	22.5[1]
	Americana	260216-14-WG/WC	46.5[2]	10.8	88.0	49.2	75.5	24.0	76.3	164	0.244	0.104	0.509	0.858	1.76	2.9	0.013	0.084	2.7	0.076	5.2	0.0156	16.0
March 31, 2026	Lucky	260331-03-WG	156.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Whitewater	260331-11-WG/WC	1990.0	28.7[1]	162[1]	26.0[1]	66.5[1]	17.4[1]	107[1]	155[1]	0.710[1]	0.404[1]	0.986[1]	0.792[1]	3.38[1]	3.0[1]	0.013[1]	0.10[1]	6.0[1]	0.25[1]	5.8[1]	0.0184[1]	28.7[1]
	Main	260331-12-WG/WC	141360	21.7	160	7.18	23.3	20.9	154	79.0	0.326	0.128	1.31	0.447	3.10	2.3	0.020	0.15	7.2	0.13	8.0	0.0180	43.4
	Americana	260331-14-WG/WC	816.4	28.3	146	44.6	92.8	15.7	99.1	203	0.504	0.262	0.996	1.10	2.78	4.4	0.017	0.12	7.1	0.15	5.2	0.0132	38.2
April 22, 2026	Lucky	260422-03-WG	82.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	--
	Whitewater	260422-11-WG/WC	378.4	20.5	78.0	3.98	21.6	28.2	51.6	56.3	0.446	0.297	0.334	0.190	1.72[3]	1.6	<0.010	0.048	4.4	0.16	4.0	0.0161	18.0
	Main Alt	260422-12-WG	387.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Americana	260422-14-WG	272.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

-- = No data.

[1] Data qualified due to lack of representativeness (50%–75%).

[2] E. coli sample qualified due to exceeded hold time (>8 and <16 hours).

[3] Relative percent difference was greater than 20% and both parent and QC samples were greater than fives times the method detection limit. Values are considered estimates.

[4] Analytical parameter is qualified due to being less than five times the value detected in the rinsate blank. See Table 6 for rinsate blank results.

[1R] Data rejected due to insufficient rainfall at the time of sample collection.

WG = Wet grab sample.

WC = Wet composite sample.

Table 4. Event Loads for Monitored Drainages in Pounds						
Event Date	Monitoring Station	TSS	Total Phosphorus	Ammonia as N	Nitrate + Nitrite as N	TKN
October 25, 2025	Lucky	49.2	0.337	0.368	0.201	0.842
	Whitewater	92.0[1]	2.294[1]	0.689[1]	1.529[1]	3.702[1]
	Main	19.6	0.116	0.452	0.160	0.591
	Americana	221.6	2.473	2.216	3.890	5.911
December 4, 2025	Lucky	3.7	0.229	0.108	0.083	0.518
	Whitewater	28.8	1.200	0.302	0.703	2.444
	Main	9.6	0.079	0.391	0.153	0.752
	Americana	--	--	--	--	--
February 16, 2026	Lucky	101.5	0.341	0.571	0.406	2.184
	Whitewater	370.0	1.545	2.021	2.413	9.292
	Main	147.6[1]	0.251[1]	1.105[1]	0.538[1]	2.433[1]
	Americana	823.9	2.635	5.497	9.265	19.01
March 31, 2026	Lucky	--	--	--	--	--
	Whitewater	193.5[1]	1.284[1]	1.783[1]	1.432[1]	6.11[1]
	Main	60.5	0.128	0.514	0.176	1.22
	Americana	466.2	2.371	4.685	5.174	13.08
April 22, 2026	Lucky	--	--	--	--	--
	Whitewater	967.5	8.362	6.262	3.562	32.25[3]
	Main Alt	--	--	--	--	--
	Americana	--	--	--	--	--

Notes:

-- = No data

[1] Data qualified due to lack of representativeness (50%–75%).

[3] Relative percent difference was greater than 20% and both parent and QC samples were greater than fives times the method detection limit. Values are considered estimates.

Table 5. Event Loads in Pounds/Acre						
Event Date	Monitoring Station	TSS	Total Phosphorus	Ammonia as N	Nitrate + Nitrite as N	TKN
October 25, 2025	Lucky	--	--	--	--	--
	Whitewater	0.185[1]	0.00461[1]	0.00138[1]	0.00307[1]	0.00743[1]
	Main	0.248	0.00147	0.00573	0.00203	0.00748
	Americana	0.253	0.00283	0.00253	0.00445	0.00676
December 4, 2025	Lucky	0.0352	0.00218	0.00103	0.000790	0.00493
	Whitewater	0.0578	0.00241	0.000606	0.00141	0.00491
	Main	0.122	0.00100	0.00495	0.00194	0.00952
	Americana	--	--	--	--	--
February 16, 2026	Lucky	0.967	0.00324	0.00544	0.00386	0.0208
	Whitewater	0.743	0.00310	0.00406	0.00484	0.0187
	Main	1.868[1]	0.00318[1]	0.0140[1]	0.00681[1]	0.0308[1]
	Americana	0.942	0.00301	0.00628	0.0106	0.0217
March 31, 2026	Lucky	--	--	--	--	--
	Whitewater	0.389	0.00258	0.00358	0.00288	0.0123
	Main	0.766	0.00162	0.00651	0.00223	0.0154
	Americana	0.533	0.00271	0.00535	0.00591	0.0149
April 22, 2026	Lucky	--	--	--	--	--
	Whitewater	1.943	0.0168	0.0126	0.00715	0.0648[3]
	Main Alt	--	--	--	--	--
	Americana	--	--	--	--	--

Notes:

-- = No data.

[1] Data qualified due to lack of representativeness (50%–75%).

[3] Relative percent difference was greater than 20% and both parent and QC samples were greater than fives times the method detection limit. Values are considered estimates.

Table 6. QC Sample Summary

Event Date	Parent Sample	Sample ID	QC Sample Type	Analytical Parameters																			
				E. coli	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
				MPN/100 mL	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
September 9, 2025	--	250909-11-003	Equipment blank	--	<2.00	<7.00	<0.500	<0.125	<0.3	<0.900	<25.0	<0.0110	<0.003	<0.0450	<0.0250	<0.100	<0.0500	<0.0100	<0.0100	0.36	<0.005	<0.0100	<0.0100	0.84
	--	250909-14-003	Equipment blank	--	<2.00	<7.00	<0.500	<0.125	<0.3	<0.900	<25.0	<0.0110	<0.003	<0.0450	0.0251	< 0.100	0.10	<0.0100	<0.0100	0.35	<0.005	0.042	<0.0100	<0.500
December 4, 2025	251204-12-WG	251204-12-001	Field blank grab	< 1.0[2]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	251204-12-WG	251204-12-101	Field duplicate grab	1046.2[2]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Calculated parent/duplicate RPD			**2%**	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
February 16, 2026	260216-03-WG	260216-03-001	Field blank grab	<1.0[2]	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	260216-03-WG	260216-03-101	Field duplicate grab	24.1[2]	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Calculated parent/duplicate RPD			**15%**	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
March 31, 2026	260331-03-WG	260331-03-001	Field blank grab	<1.0	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	260331-03-WG	260331-03-101	Field duplicate grab	167.0	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Calculated parent/duplicate RPD			**1%**	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
April 22, 2026	260422-12-WG	260422-12-001	Field blank grab	<1.0	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	260422-12-WG	260422-12-101	Field duplicate grab	307.6	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Calculated parent/duplicate RPD			**4%**	–	–	--	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	260422-11-WC	260422-11-103	Lab duplicate/ Composite split	--	21.5	76.0	3.90	21.2	24.6	50.7	55.7	0.435	0.296	0.326	0.190	1.40	1.6	<0.010	0.051	4.1	0.19	3.9	0.0163	18.1
	Calculated parent/duplicate RPD			--	**5%**	**3%**	**2%**	**2%**	**14%**	**2%**	**1%**	**2%**	**0%**	**2%**	**0%**	**21%**	**0%**	**0%**	**6%**	**7%**	**17%**	**3%**	**1%**	**1%**
June 9, 2026	–	260609-03-004	Rinsate blank	–	<2.00	<7.00	<0.500	<0.125	<0.3	<0.900	<25.0	<0.0110	<0.00250	<0.0500	0.0275	<0.100	<0.050	<0.010	<0.010	0.45	<0.0050	<0.010	<0.00600	1.1
	–	260609-11-004	Rinsate blank	–	<2.00	<7.00	<0.500	<0.125	<0.3	<0.900	<25.0	<0.0110	<0.00250	<0.0500	<0.0250	<0.100	<0.050	<0.010	<0.010	0.56	<0.0050	<0.010	<0.00600	0.53
Acceptable RPD				40%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%

-- = No data.

[2] *E. coli sample qualified due to exceeded hold time (>8 and <16 hours).*

Appendix C: Storm Event Reports

Storm Event Report No. 1: October 25, 2025

Storm Event Report No. 2: December 4, 2025

Storm Event Report No. 3: February 16, 2026

Storm Event Report No. 4: March 31, 2026

Storm Event Report No. 5: April 22, 2026

NPDES Phase I Storm Event Report
October 25, 2025

Prepared by
Ada County Highway District
December 15, 2025

Section 1: Introduction

The Environmental Protection Agency Region 10 reissued a Municipal Separate Storm Sewer System Phase I National Pollutant Discharge Elimination System Permit (NPDES Permit), effective October 1, 2021, to Ada County Highway District (ACHD), Boise City, Ada County Drainage District No. 3, Idaho Transportation Department District 3, Boise State University, and Garden City. Under the NPDES Permit, Permittees are required to continue to conduct wet weather stormwater outfall monitoring and subwatershed monitoring. Four outfall monitoring sites (Lucky, Whitewater, Main, and Americana) and one subwatershed monitoring site (AS_6) have been established. The AS_6 site represents a subwatershed located within the Americana watershed. At each site, a minimum of three composite and three grab samples will be collected during Water Year (WY) 2026 (October 1, 2025, through September 30, 2026). The following storm event report summarizes stormwater sampling results from the October 25, 2025, storm event.

Section 2: Project Status

Table 2-1 is a summary of the sample types collected to date for WY 2026 Phase I Stormwater Outfall Monitoring. When samples are qualified, additional samples will be attempted from subsequent storms to collect unqualified samples.

Table 2-1. WY 2026 Samples Collected

Date	Lucky	Whitewater	Main	Americana	AS_6
October 25, 2025	--, C	--, C[1]	--, C	--, C	--, C
Unqualified Samples:	0G, 1C	0G, 0C	0G, 1C	0G, 1C	0G, 1C
Samples Remaining:	3G, 2C	3G, 3C	3G, 2C	3G, 2C	3G, 2C

Notes:

-- = No samples taken.

C = Composite sample.

G = Grab sample.

[1] Composite sample qualified due to lack of representativeness (50%–75%).

Section 3: Storm Event Summary

The October 25, 2025, storm event and the subsequent preparation and sampling efforts are detailed in the following sections.

3.1 Storm Detail

A summary of the forecast on which monitoring decisions were based is detailed below. The sampling event communication form that describes the forecast and summarizes the decision-making process from October 24, 2025, is included in Attachment A for reference.

Friday, October 24, 2025 (Sampling Event Communication & Set up)

- On the morning of October 24, the National Weather Service issued a forecast for rain beginning on October 25 at 0800 until 2300 with occasional breaks in precipitation. There was a 90% chance of precipitation, with a 62% probability of rain totals to be greater than 0.1 inches over a 12-hour period. The forecasted precipitation for this event was 0.28 inches of rain.
- Setup was accomplished on the morning of October 24. An expected precipitation depth of 0.11 inches was used to set trigger volumes at monitoring stations. A runoff calculations worksheet showing how the trigger volumes were calculated is included in Attachment A.

Saturday, October 25, 2025 (Storm Event)

- An updated forecast was provided verbally from the NWS on the morning of October 25 for 0.07 inches of rain from 0600 – 0900 and an additional 0.02 inches from 0900 until 1700.
- Due to the change in forecast, grab samples were not targeted.
- The runoff started on October 25 at approximately 0641 and ended at approximately 1743.
- Precipitation totals ranged between 0.21 and 0.32 inches at local rain gauges.

Flow measurements and precipitation data are listed in Table 1 along with a sampling summary. Hydrographs for the Lucky, Whitewater, Main, Americana, and AS_6 sites showing flow, rain, and sample collection data are included in Attachment B.

3.2 Sampling Summary

Lucky, Whitewater, Main, Americana, and AS_6 monitoring stations were set up on October 24, 2025, to collect flow-proportional composite samples during the storm. Sampler enable conditions were programmed into the Lucky, Whitewater, Main, Americana, and AS_6 flowmeters. Setup and sampling information are included in Table 1. The field forms completed during setup/shutdown and sampling are included in Attachment C.

Composite Samples

One sampling team was mobilized to check the status of composite samples based on the reduced rainfall amounts forecasted. Composite samples were collected at the Lucky, Whitewater, Main, Americana, and AS_6 monitoring stations and submitted to the Boise City Public Works Water Quality Laboratory (WQL) at 1943 on October 25. Analytical results are shown in Table 2 and pollutant loading estimates for the event are detailed in Table 3. Laboratory analytical reports are included in Attachment D.

Section 4: Quality Assurance/Quality Control

No quality control samples were collected during the October 25, 2025, storm event.

Data quality objectives for this storm were evaluated and tracked using the data validation review checklist included in Attachment A.

An acceptable composite sample represents at least 75 percent of the total discharge or at least 6 hours of the storm duration. The Lucky, Main, Americana, and AS_6 composites met the representativeness criteria and are accepted. The composite collected at Whitewater represented 73% of the total discharge and 5.5 hours of the storm duration and is therefore qualified due to lack of representativeness.

Data Tables

Table 1. Sampling and Flow Summary					
	Lucky	Whitewater	Main	Americana	AS_6
Grab samples collected and submitted?	NO	NO	NO	NO	NO
Composite samples collected and submitted?	YES	YES	YES	YES	YES
Trigger volume	2895 gal	801 cf	456 cf	2960 cf	1646 gal
Sampler enable condition (in) or Velocity cutoff (fps)	Level > 2.95	Level > 4.13	Level > 2.137	Level > 7.50	Level > 1.00
Deadband/ Hysteresis (in)	1.0"	1.0"	1.0"	1.0"	1.0"
Runoff start time	0641	0901	0839	0829	1109
Grab sample collection time	--	--	--	--	--
Composite sample stop time	1307	1743	1405	1635	1505
Runoff stop time	1639	1952	1541	1653	1658
Volume of discharge sampled (ft^3)	10,020	40,232	8,659	101,333	6,258
Total runoff volume (ft^3)	12,602	55,442	9,281	111,300	7,080
Percent of storm flow sampled (%)	80%	73%	93%	91%	88%
Composite sample duration (hrs)	3	5.5	3.5	7	3.5
Storm Precipitation (in)	0.32	0.27	0.21	0.21/0.24	0.21/0.24
Referenced Rain Gauge	Cynthia Mann	Whitewater	Front	Front/East	Front/East
Sampler messages (counts): Success	24	53	20	37	28
: Rinse error	--	--	--	--	1
Number of composite bottles filled	1	3	1	2	2
Composite sample volume (Approx.; ml)	13,250 mL	29,250 mL	11750 mL	22,750 mL	14,650 mL

Notes:

– = No data.

Table 2. Field and Analytical Data Summary

Monitoring Station	Sample Date	Sample ID Grab	Field Parameters				Analytical Parameters																						
			Dissolved Oxygen	pH	Conductivity	Temperature	E. coli	Sample ID Composite	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
			mg/L	S.U.	uS/cm	C	MPN/100 mL		mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Lucky	10/25/2025	--	--	--	--	--	--	251025-03-WC	18.9	75.0	2.51	19.2	19.6	62.5	54.0	0.429	0.283	0.468	0.256	1.07	1.21	<0.010	0.0381	3.57	0.0867	0.947	0.0170	38.5
Whitewater	10/25/2025	--	--	--	--	--	--	251025-11-WC	43.9[1]	125[1]	16.1[1]	48.6[1]	23.8[1]	26.6[1]	139[1]	0.663[1]	0.484[1]	0.199[1]	0.442[1]	1.07[1]	2.81[1]	<0.010[1]	0.0422[1]	4.58[1]	0.255[1]	2.65[1]	0.0173[1]	20.1[1]
Main	10/25/2025	--	--	--	--	--	--	251025-12-WC	13.6	74.0	1.67	15.2	33.1	33.8	42.8	0.200	0.117	0.781	0.277	1.02	2.59	0.0140	0.0571	0.0140	0.218	3.60	0.0195	32.9
Americana	10/25/2025	--	--	--	--	--	--	251025-14-WC	24.1	78.0	21.1	54.7	21.1	31.9	130	0.356	0.238	0.319	0.560	0.851	2.80	0.0111	0.0548	3.62	0.0674	2.33	0.0118	22.6
AS_6	10/25/2025	--	--	--	--	--	--	251025-206-WC	96.4	277	6.52	32.1	68.5	143	166	1.38	1.03	0.264	0.210	3.15	2.44	0.0178	0.0822	7.55	0.870	6.06	0.0240	46.1

Notes:

-- = No data.

[1] *Composite sample qualified due to lack of representativeness.*

Table 3. Event Pollutant Loading Estimates in Pounds						
Monitoring Station	Event Date	TSS	Total Phosphorus	Ammonia as N	Nitrate + Nitrite as N	TKN
Lucky	10/25/2025	49.2	0.337	0.368	0.201	0.842
Whitewater	10/25/2025	92.0[1]	2.294[1]	0.689[1]	1.529[1]	3.702[1]
Main	10/25/2025	19.6	0.116	0.452	0.160	0.591
Americana	10/25/2025	221.6	2.473	2.216	3.890	5.911
AS_6	10/25/2025	63	0.61	0.12	0.093	1.4

Notes:

[1] *Composite sample qualified due to lack of representativeness.*

Attachment A: Supplemental Documents

Sampling Event Communication Form

Data Validation Checklist

Runoff Calculation Worksheet

SAMPLING EVENT COMMUNICATION FORM

Date: 10/24/2025	Time: 8:03 AM	Initials: ST
Is there a targeted sampling event during the next 36 hours? (Or, if it is Friday, is a targeted event expected before 5:00 PM Monday?) Or, if it is Friday,		Yes

Past 72 hr Precip	
Date and time of expected event	Starting AM on 10/25 and slowing down in the evening on 10/25
Expected amount of precipitation	0.28”
Percent chance of precipitation	90%
Percent chance of >0.10” over 12 hours	62% from 6:00 am – 6:00 pm on 10/25

NWS Update

Spoke with Josh at the NWS. We will see strong wind aloft which may cause rain shadowing at the start of the system. Josh predicted a start time around 8:00 am and could possibly see some breaks in the rain throughout the day at 12:00 pm and 5:00 pm, with the bulk of the rain slowing down around 11:00 pm. Rain totals from 5:00 am – 5:00 pm are 0.16”, and from 5:00 pm – midnight is 0.12”.

Targeted Station & Samples

Lucky	Whitewater	Main	Americana	AS_6	State (Phase II)
☒ Grab	☒ Grab	☒ Grab	☒ Grab	☒ Grab	☒ Grab
☒ Composite	☒ Composite	☒ Composite	☒ Composite	☒ Composite	☒ Composite

Type of Forecasted Precipitation

☐ Light Rain	☒ Rain	☐ Rain on Snow
☒ Scattered Showers	☒ Thunder Showers	☐ Snowmelt
☐ Other:		

Reasons for Not Targeting a Forecasted Storm and/or Stations

☐ Holiday
☐ Waiting on Antecedent Dry Period:
☐ Equipment Concerns:
☐ Other:

Text Forecast

NWS Forecast for: 2 Miles NNW Garden City ID
Issued by: National Weather Service Boise, ID
Last Update: 6:04 am MDT Oct 24, 2025

Today: Increasing clouds, with a high near 72. North northeast wind 5 to 10 mph becoming southeast in the afternoon. Winds could gust as high as 21 mph.
Tonight: A 20 percent chance of showers after midnight. Patchy smoke between 3am and 4am. Mostly cloudy, with a low around 50. Southeast wind 5 to 8 mph becoming calm after midnight.
Saturday: Showers. High near 62. Light and variable wind becoming southeast 8 to 13 mph in the morning. **Chance of precipitation is 90%. New precipitation amounts between a tenth and quarter of an inch possible.**
Saturday Night: Showers and possibly a thunderstorm. Low around 40. Southeast wind 5 to 11 mph becoming west after midnight. Winds could gust as high as 22 mph. **Chance of precipitation is 90%. New precipitation amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.**

Sunday: A 50 percent chance of showers. Mostly cloudy, with a high near 53. South wind 3 to 7 mph.
Sunday Night: Showers likely, mainly before midnight. Mostly cloudy, with a low around 38. Chance of precipitation is 60%.
Monday: A 30 percent chance of showers. Partly sunny, with a high near 52.
Monday Night: A 20 percent chance of showers before midnight. Partly cloudy, with a low around 34.
Tuesday: Mostly sunny, with a high near 58.
Tuesday Night: Partly cloudy, with a low around 38.
Wednesday: Mostly sunny, with a high near 59.
Wednesday Night: Partly cloudy, with a low around 38.
Thursday: Mostly sunny, with a high near 59.

Forecast Discussion

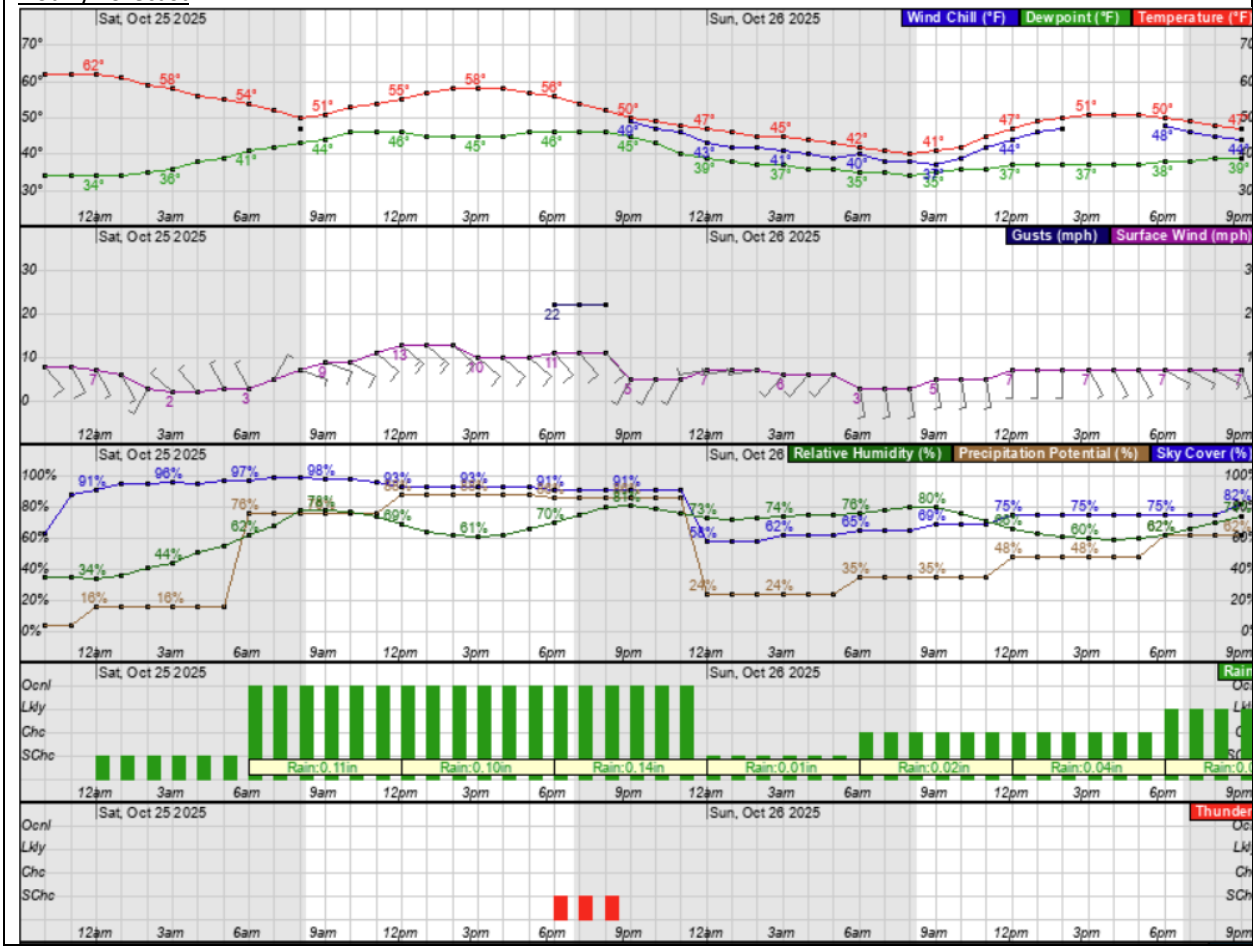
Area Forecast Discussion
National Weather Service Boise ID
328 AM MDT Fri Oct 24 2025

.SHORT TERM...Today through Sunday night...One last day of dry, mild weather before a deep Gulf of Alaska upper trough comes in this weekend. The trough will send a surface cold front across our CWA Saturday through Saturday evening, bringing colder air and widespread rain and snow, heaviest in northern areas, also isolated thunderstorms, and strong wind gusts in southeast Oregon and the Owyhee Mountains Saturday afternoon and evening. Wind may be the most impactful feature with models averaging 40 to 50 mph gusts from the southwest, enough for a Wind Advisory in Harney and Malheur Counties and the Owyhee Mountains. The HRRR model has 50 to 60 mph gusts over all of eastern Oregon and about half of western Idaho but that model is a high-end outlier. Our Advisory reflects the model consensus**. Total forecast pcpn late tonight through Monday evening hasn`t changed much since yesterday, still ranging from** 1.00 to 2.00 inches in Idaho north of the Snake Basin, and **.30 to .60 inch elsewhere** with .60 to 1.00 inch in the mountains. **Southwest winds aloft may cause shadowing in the Snake Basin,** but even there at least .30 inch of rain is expected. Snow level will stay above 6500 feet MSL through Saturday evening, then lower Saturday night behind the cold front to 4000 feet north to 5000 feet south Sunday through Monday. Snow will then accumulate 4 to 12 inches in the Idaho mountains north of the Snake Basin, with post-frontal pcpn continuing Sunday into Monday. McCall/ID should get 3-4 inches new snow, with the main snowfall Sunday night. High temps today will be generally 60 to 70 degrees, then 10 to 15 degrees colder Saturday, and another 4 to 8 degrees colder Sunday. Clouds and winds will keep low temps from becoming too cold, generally upper 30s through 40s Saturday morning, upper 20s and 30s Sunday, and 20s to mid 30s Monday.

.LONG TERM...Monday through Friday...Precipitation chances will remain elevated come Monday, as deterministic and ensemble guidance hint at a shortwave crossing over our area. This shortwave, paired with lingering moisture over the area, will allow for a 20-40% chance of precipitation southwest of a line roughly from Centerville,ID to Cambridge,ID. Northeast of that line, chances of precipitation will range from 40-60%. Following the cold frontal passage in the short term, snow levels will be at 4000-5000 ft MSL. Throughout the day Monday, elevations

above 5500 ft MSL in the West Central Mountains have a 40-70% chance of seeing at least an additional 4 inches of snow (chances increasing with elevation). Isolated showers will continue over Baker, Valley, and Adams counties through Wednesday morning. Otherwise, our area is looking to remain dry as a low-amplitude ridge builds over the Great Basin. Precipitation chances will begin to increase Friday as the next system approaches. However, there is much to be resolved in the days to come. Temperatures on Monday will be 5-10 degrees below normal, before increasing to more seasonable values Tuesday and beyond.

Hourly Forecast



Storm Event QA/QC Checklist – Phase I

STORM DATE: 10/25/2025									
A. Event and Data Completeness	**Yes**	**No**	**N/A**	**Notes**					
1. Field data sheets filled out completely and clearly	X								
2. Field parameters reviewed, and any problems/issues addressed	X								
3. All samples collected as specified	X								
4. All samples delivered to lab promptly (review chain of custody rpts)	X								
5. Inconsistencies/clarifications discussed with sampling team member			X						
6. All analytical reports from lab received	X								
B. Validation and Verification Methods	**Yes**	**No**	**N/A**	**Notes**					
1. Outliers and unexpected values discussed with lab			X						
2. Appropriate analytical methods used	X								
3. All lab QA samples were within method acceptance criteria	X								
4. All samples reviewed and data qualifiers assigned if needed	KJ								
5. Data quality objective achieved	X								
C. Specific Storm and Sample QA/QC Criteria	**Lucky**	**Whitewater**	**Main**	**Americana**	**AS_6**	**Program Criteria**	**Met**	**Qualify**	**Reject**
1. Antecedent dry period (inches in previous 72-hours)	0.00”	0.00”	0.00”	0.00”	0.00”	< 0.11” in 72 hrs	X		
2. Precipitation (inches)	0.32”	0.27”	0.21”	0.21”/ 0.24”	0.21”/ 0.24”	> 0.10”	X		
3. Sampled amount (% of total run-off)	80%	73%	93%	91%	88%	>= 75% or >= 6 hrs: no qualifier >= 50% and <75%: qualify < 50%: reject		X Whitewater	
4. Composite sample duration (hours)	3	5.5	3.5	7	3.5		X		
4. Ecoli sample holding time (hours)	-	-	-	-	-	<=8 hrs: no qualifier >8 and <=16 hrs.: qualify >16 hrs.: reject	-		
5. Filtering of samples for dissolved parameter analysis (hours)	18.5	15.5	18	16.5	17.5	<= 24 hrs: no qualifier > 24 hrs.: reject	X		

D. Notes

- No grab samples targeted for this storm.
- Whitewater composite was qualified due to lack of representativeness (50-75%).

Reviewed by: Steven Turner Digitally signed by Steven Turner Date: 2025.12.10 11:51:14 -07'00'

Approved by: Monica I. Lowe Digitally signed by Monica I. Lowe Date: 2025.12.10 12:33:21 -07'00'

Updated 251014 ST

Storm Runoff Estimates and Trigger Volumes

Step 1. Enter runoff coefficients in yellow cells.
Step 2. Enter expected precipitation depth (in) in blue cell.
Step 3. Read trigger volumes (**bold**) in green cells.

Expected Precipitation Depth = 0.11
Aliquots per Sample = 17

Site	Area (ac)	Using RC calculated from flow data		
		RC	Expected Vol (ft^3)	Trigger Vol (ft^3)
Lucky	105	0.157	6582.5	**387**
Whitewater	498	0.069	13621.3	**801**
Main	79	0.246	7760.0	**456**
Main Alt	60	0.200	4791.6	**282**
Americana	875	0.144	50311.8	**2960**
Americana Alt	869	0.144	49966.8	**2939**
AS_6	204	0.046	3747.0	**220**
State	34	0.127	1724.2	**101**

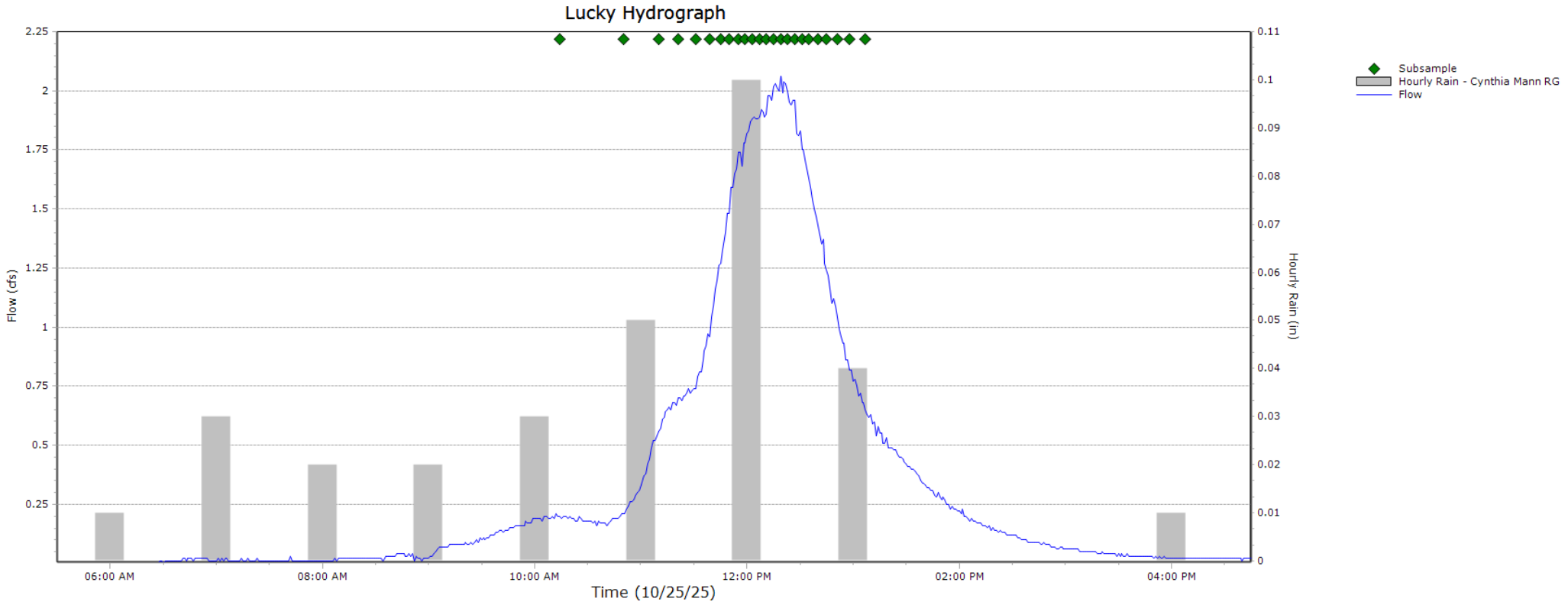
Notes:

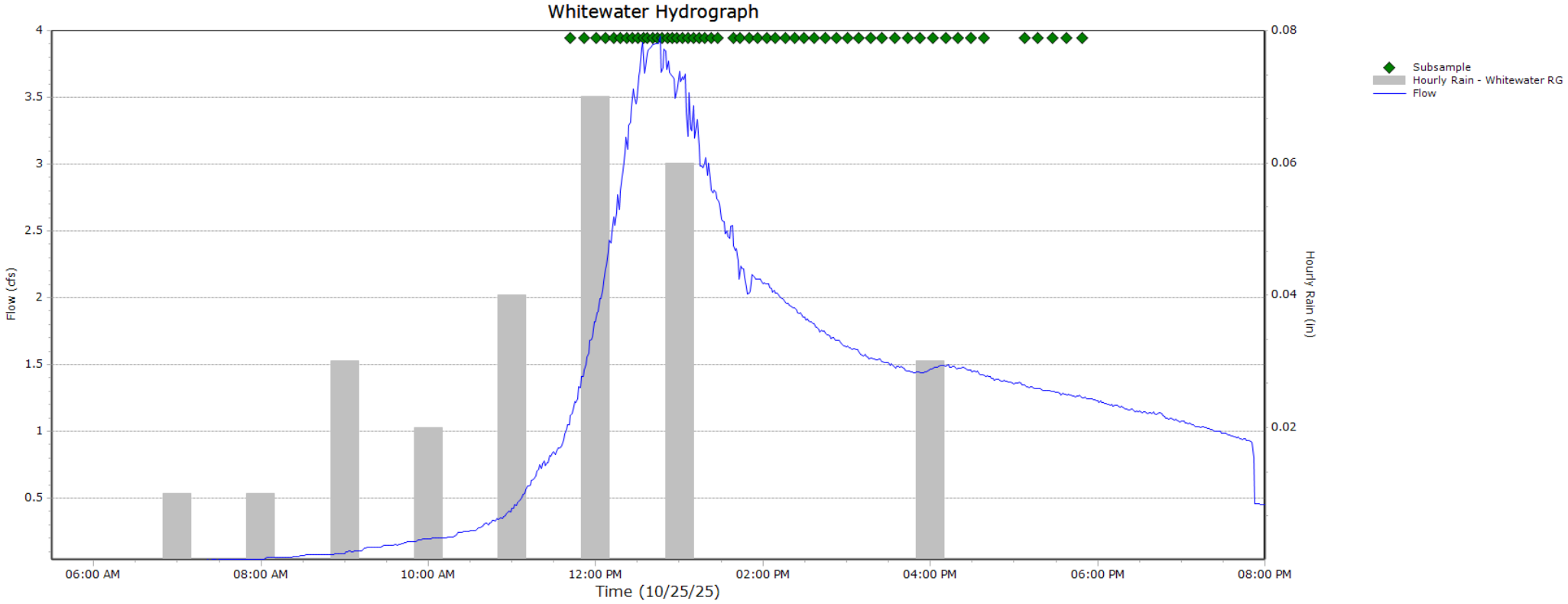
Calculated RC = runoff volume (ft^3) / [precip (ft) x area (ft^2)]

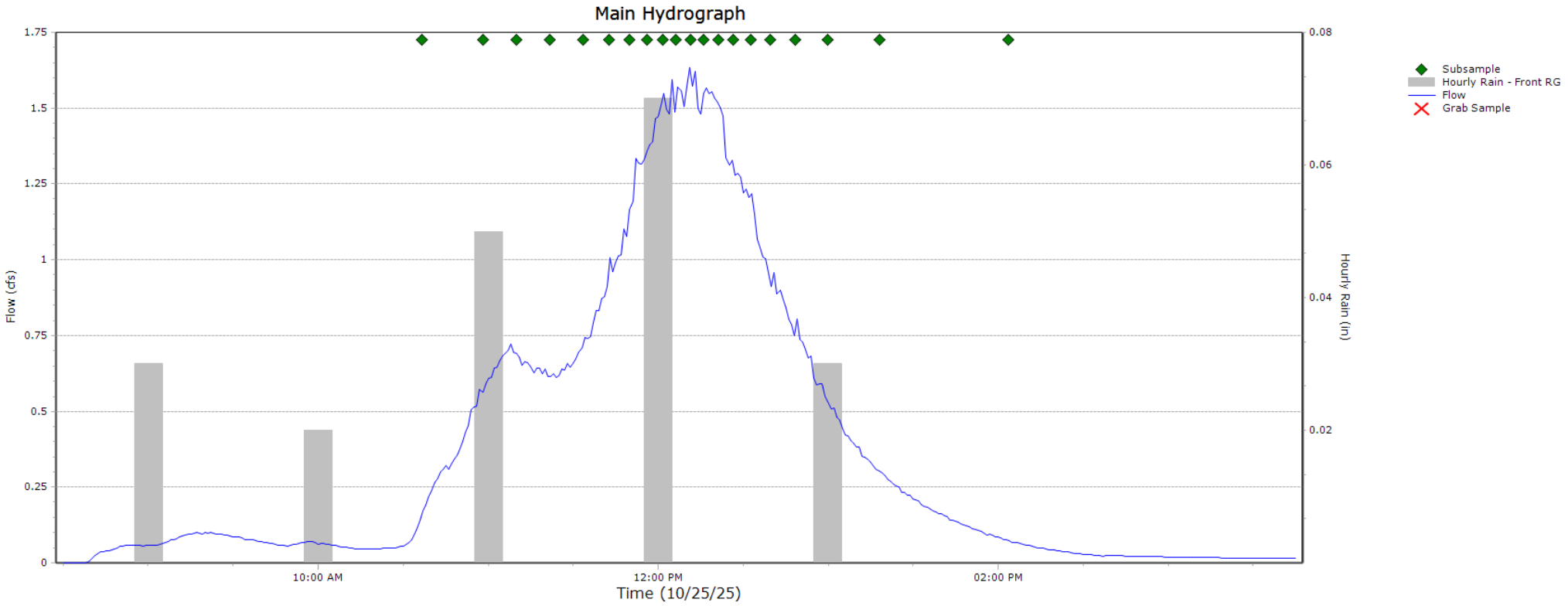
Where volume (ft^3) is the measured discharge, precip (ft) is the measured amount from local rain guage, and area (ft^2) is the watershed area.

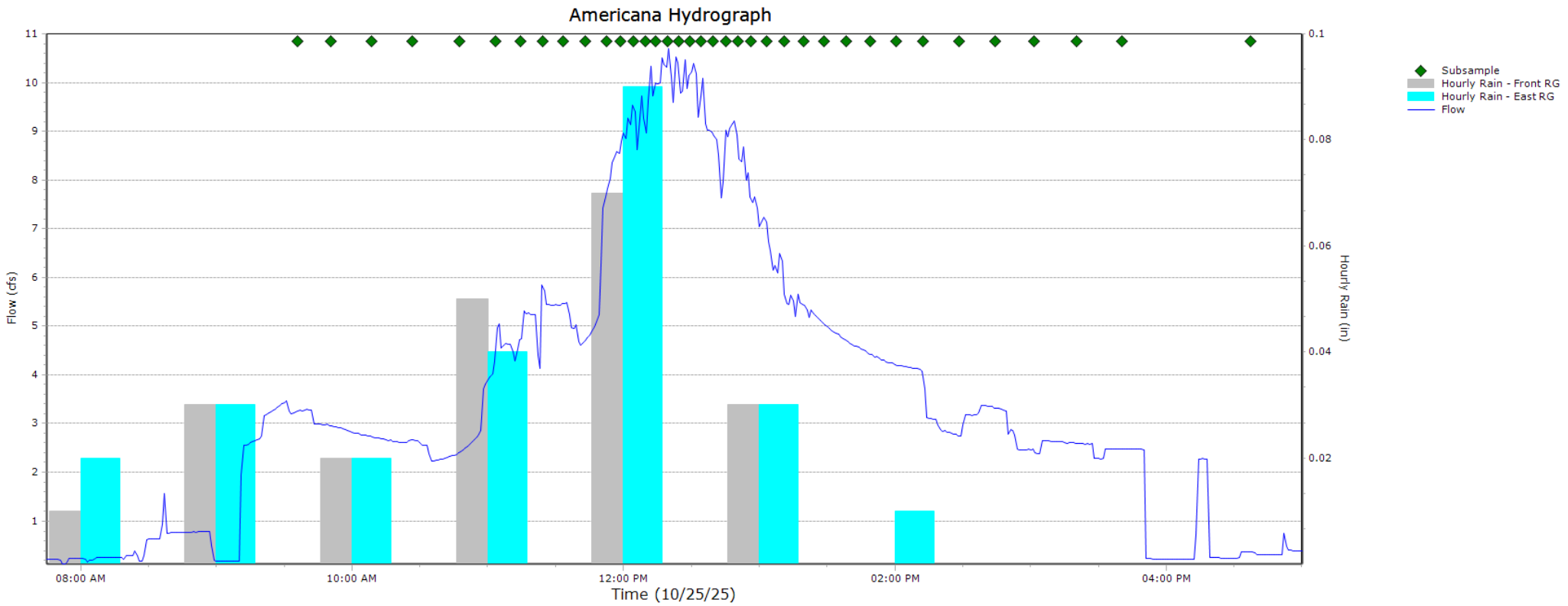
Expected volume (ft^3) = RC x expected precip (ft) x area (ft^2)

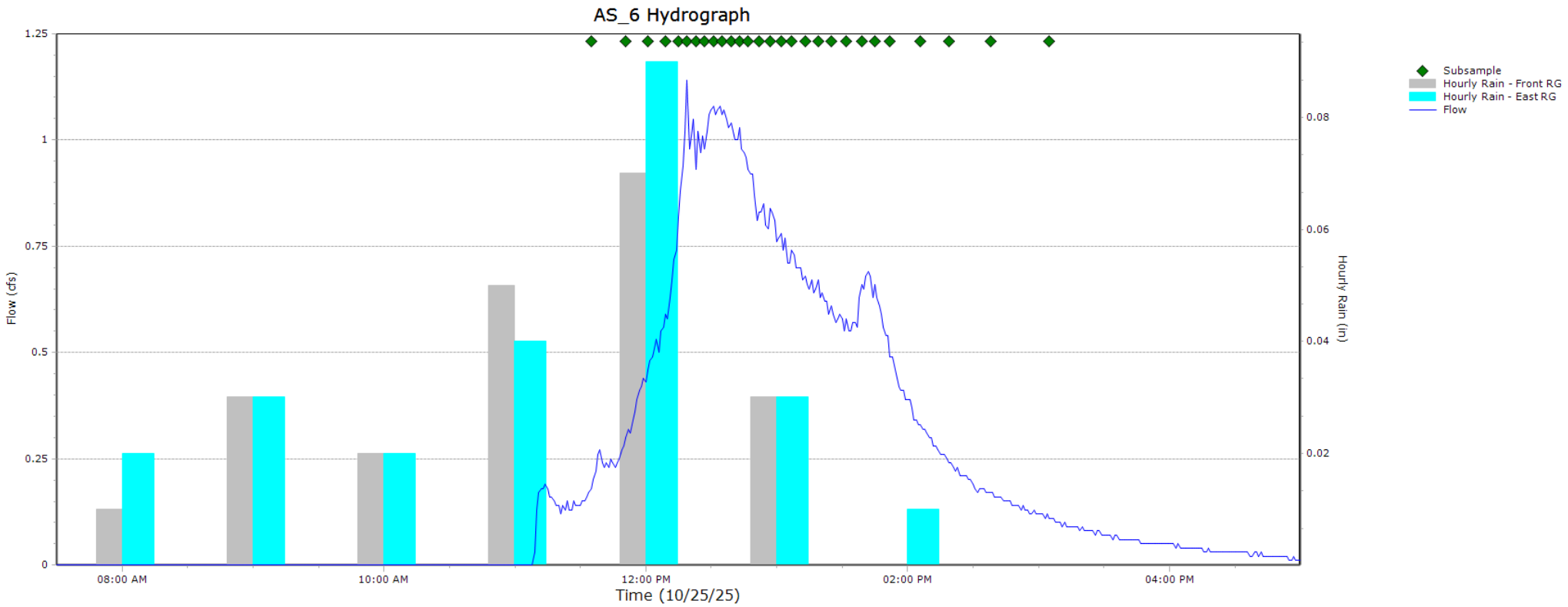
Attachment B: Storm Event Hydrographs


Lucky Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (10/25/25)
06:00 AM
08:00 AM
10:00 AM
12:00 PM
02:00 PM
04:00 PM
Subsample
Hourly Rain - Cynthia Mann RG
Flow


Whitewater Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (10/25/25)
4
3.5
3
2.5
2
1.5
1
0.5
0.08
0.06
0.04
0.02
06:00 AM
08:00 AM
10:00 AM
12:00 PM
02:00 PM
04:00 PM
06:00 PM
08:00 PM
Subsample
Hourly Rain - Whitewater RG
Flow


Main Hydrograph
Flow (cfs)
Hourly Rain (in)
1.75
1.5
1.25
1
0.75
0.5
0.25
0
0.08
0.06
0.04
0.02
10:00 AM
12:00 PM
02:00 PM
Time (10/25/25)
Subsample
Hourly Rain - Front RG
Flow
Grab Sample


Americana Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (10/25/25)
08:00 AM
10:00 AM
12:00 PM
02:00 PM
04:00 PM
Subsample
Hourly Rain - Front RG
Hourly Rain - East RG
Flow


AS_6 Hydrograph
Subsample
Hourly Rain - Front RG
Hourly Rain - East RG
Flow
Flow (cfs)
Hourly Rain (in)
1.25
1
0.75
0.5
0.25
0
0.08
0.06
0.04
0.02
08:00 AM
10:00 AM
12:00 PM
02:00 PM
04:00 PM
Time (10/25/25)

Attachment C: Field Forms

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: Lucky

SET UP

Personnel: KJ, ST

Date/Time On-Site: 10/24/25 1226

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1231	1.95	0.00	0.00	13.2

Enable Condition or Velocity Cutoff:	2.95"
Deadband:	1.00
Trigger Volume:	2895 gal

- [x] Check desiccant on flowmeter and sampler
- [x] Install batteries on flowmeter and sampler
- [x] Perform decon. cycle
- [x] Install 15L sample bottle, with ice
- [x] Leave bottle lid at site, in a clean re-sealable plastic bag
- [x] Verify all cable and tubing connections
- [x] Check date and time on flowmeter and sampler
- [x] Set flowmeter program and sampler program parameters
- [x] Set logging interval to 1 minute
- [x] Start flowmeter program and sampler program
- [x] Verify running

Comments:

Date/Time Off-Site: 10/24/25 1246

SHUT DOWN

Personnel: ST

Date/Time On-Site: 10/27/25 1346

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1350	2.07	0.00 gpm	0.00	12.4 V
Downloaded to:		Stevens Flash drive		

If flow monitoring is complete:	**If continuing to monitor flow:**
☒ Halt program on flowmeter	☐ Replace flowmeter battery
☒ Download flowmeter data	☐ Reset logging interval to 15 minutes
☒ Remove flowmeter battery	☐ Change velocity cutoff to 0.02 fps
	☐ Start program
	☐ Verify running

Comments:

Date/Time Off-Site: 10/27/25 1404

STATION: Lucky
Personnel: KJ, SF

Bottle 1 **of** 1
Date/Time On-Site: 10/25/25 1435

☒ Halt sampler program			
☒ Put lid on sample bottle; label sample bottle			
Sample ID:	251025-03	-WC	
Approx Sample Volume (mL):	13250		
Clarity (ex. Clear, Cloudy, Silty):	Cloudy		
Color (ex. Clear, Gray, Tan, Brown, Black):	Tan		
QA/QC Sample ID:		-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25/25 1014	Success	13	10/25/25 1211	Success
2	1050		14	1215	
3	1110		15	1219	
4	1121		16	1223	
5	1131		17	1227	
6	1139		18	1231	
7	1145		19	1235	
8	1150		20	1240	
9	1155		21	1245	
10	1159 ~~1559~~ 51		22	1251	
11	1203		23	1258	
12	1207		24	1307	

Comments: Installed a second bottle at 1440; however, no additional subsample were collected.

Date/Time Off-Site: 10/25/25 1445

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle, add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 10/25 1440
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Whitewater

SET UP

Personnel: KJ, ST

Date/Time On-Site: 10/24/25 1159

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1200	1.21	0.02	0.13	—

Enable Condition:	4.13"
Hysteresis:	1.0"
Flow Pulse Interval:	801 cf

On-Site

- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)

- ☒ Direct or Remote; Date/time 10/24/25 0921
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 10/24/25 1213

SHUT DOWN

Personnel: ST

Date/Time On-Site: 10/27/25 11:28

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
11:28	2.28	0.22	0.76	—
	Downloaded to:	Stevens laptop		

On-Site

- ☐ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)

- ☒ Direct or (Remote): Date/time 10/27 9:31
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 10/27/25 11:29.

STATION: Whitewater **Bottle** 1 **of** 3

Personnel: KJ, ST **Date/Time On-Site:** 10/25/25 1331

☒ Halt sampler program	
☒ Put lid on sample bottle; label sample bottle	
Sample ID:	~~250~~ 251025-11 -WC
Approx Sample Volume (mL):	13250
Clarity (ex. Clear, Cloudy, Silty):	Cloudy
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25/25 1140	Success	13	10/25/25 1243	Success
2	1151		14	1247	
3	1159		15	1250	
4	1206		16	1254	
5	1212		17	1257	
6	1217		18	1301	
7	1221		19	1305	
8	1225		20	1309	
9	1229		21	1313	
10	1233		22	1317	
11	1236		23	1322	
12	1240		24	1326	

Comments:

Date/Time Off-Site: 10/25/25 1338

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: ~~10/25/25 1335~~ ST 1335
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Whitewater **Bottle** 2 **of** 3

Personnel: KJ, ST **Date/Time On-Site:** 10/25/25 1655

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	25/025-11	-WC
Approx Sample Volume (mL):	13250	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25/25 1337	Success	13	10/25/25 1459	Success
2	1343		14	1507	
3	1349		15	1516	
4	1355		16	1524	
5	1401		17	1533	
6	1408		18	1542	
7	1415		19	1552	
8	1421		20	1601	
9	1428		21	1610	
10	1436		22	1619	
11	1443		23	1628	
12	1451		24	1637	

Comments:

Date/Time Off-Site: 10/25/25 1700

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 10/25/25 ~~1448~~ ~~1458~~ 1658
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Whitewater **Bottle** 3 **of** 3

Personnel: ST, IAT **Date/Time On-Site:** 10/25/25 1752

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	251025-11	-WC
Approx Sample Volume (mL):	2750 mL	
Clarity (ex. Clear, Cloudy, Silty):	Clear	
Color (ex. Clear, Gray, Tan, Brown, Black):	Tan	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25/25 1706	Success	13		
2	1716		14		
3	1726		15		
4	1737		16		
5	1747		17		
6			18		
7			19		
8			20		
9			21		
10			22		
11			23		
12			24		

Comments:

Date/Time Off-Site: 10/25/25 1757

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter ☒ Keep flowmeter running ☒ Add ice to sample transport cooler	☐ Keep flowmeter running ☐ Install new 15L bottle; add ice ☐ Restart program from beginning **Date/Time Restarted:** _____ ☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Main

SET UP

Personnel: ST, KJ

Date/Time On-Site: 10/24/2025 10:30

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1034	1.137	0.00	0.00	11.73

Enable Condition:	2.137"
Hysteresis:	1.0"
Flow Pulse Interval:	456 cf

On-Site
- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)
- ☐ Direct or Remote; Date/time NA
- ☒ Retrieve data and review recent flow history NA
- NA ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 10/24/25 1053

SHUT DOWN

Personnel: ST

Date/Time On-Site: 10/27/25 1003

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1007	1.322	0.01	0.17	11.06
	Downloaded to:	Stevens Flashdrive		

On-Site
- ☒ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)
- ☒ Direct or Remote; Date/time _____
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 10/27 10:12

STATION: Main
Personnel: ST, KJ

Bottle 1 **of** 1
Date/Time On-Site: 10/25/25 17:18

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	251025-12	-WC
Approx Sample Volume (mL):	11750mL	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25/25 1038	Success	13	10/25/25 1222	Success
2	1100		14	1228	
3	1111		15	1234	
4	1123		16	1241	
5	1135		17	1250	
6	1144		18	1301	
7	1151		19	1320	
8	1158		20	1405	
9	1203		21		
10	1208		22		
11	1213		23		
12	1218		24	ST	

Comments:

Date/Time Off-Site: 10/25/25 17:28

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

STATION: Americana

SET UP

Personnel: KJ, ST

Date/Time On-Site: 10/24/25 1104

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1112	5.83			12.07
Enable Condition:	7.5"			
Hysteresis:	1.0			
Flow Pulse Interval:	2960 cf			

On-Site
- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)
- ☒ Direct or Remote; Date/time 10/24/25 9:52
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments: No flow/velocity readings after replacing the battery. The reading returned shortly after leaving site.

Date/Time Off-Site: 10/24/25 11:17

SHUT DOWN

Personnel: ST

Date/Time On-Site: 10/27/25 10:32

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
10:32	6.38	0.24	0.239	11.79
Downloaded to:	Stevens	laptop		

On-Site
- ☒ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)
- ☒ Direct or Remote; Date/time 10/27 9:37
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 10/27/25 10:37

STATION: Americana
Personnel: ST, KS

Bottle 1 **of** 2
Date/Time On-Site: 10/25 1300

☒ Halt sampler program	
☒ Put lid on sample bottle; label sample bottle	
Sample ID:	251025-14 - -WC
Approx Sample Volume (mL):	14000mL
Clarity (ex. Clear, Cloudy, Silty):	Cloudy
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25 933	Success	13	10/25 1202	Success
2	948		14	1207	
3	1006		15	1212	
4	1024		16	1217	
5	1045		17	1222	
6	1101		18	1227	
7	1112		19	1232	
8	1122		20	1237	
9	1131		21	1243	
10	1141		22	1248	
11	1150		23	1254	
12	1156		24	1301	

Comments:

Date/Time Off-Site: 10/25 13:13

If sampling is complete:
- ☐ Power off sampler, if separate from flowmeter
- ☐ Keep flowmeter running
- ☐ Add ice to sample transport cooler

If continuing sampling (sample bottle change-out):
- ☒ Keep flowmeter running
- ☒ Install new 15L bottle; add ice
- ☒ Restart program from beginning

Date/Time Restarted: 10/25 1308

- ☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Americana **Bottle** 2 **of** 2

Personnel: KS, ST **Date/Time On-Site:** 10/25/25 1806

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	25/025-14	-WC
Approx Sample Volume (mL):	8750 mL	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Tan	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25/25 1308	Success	13	10/25/25 1635	Success
2	1317		14		
3	1326		15		
4	1336		16		
5	1347		17		
6	1358		18		
7	1410		19		
8	1426		20		
9	1442		21		
10	1459		22		
11	1518		23		
12	1538		24		

Comments:

Date/Time Off-Site: 10/25/25 1817

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: AS-6

SET UP

Personnel: KJ, ST

Date/Time On-Site: 10/24/25 1128

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1135	-0.10	0.00	0.00	13v

Enable Condition or Velocity Cutoff:	1.00"
Deadband:	1.00"
Trigger Volume:	1046 gal

- ☒ Check desiccant on flowmeter and sampler
- ☒ Install batteries on flowmeter and sampler
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Verify all cable and tubing connections
- ☒ Check date and time on flowmeter and sampler
- ☒ Set flowmeter program and sampler program parameters
- ☒ Set logging interval to 1 minute
- ☒ Start flowmeter program and sampler program
- ☒ Verify running

Comments:

Date/Time Off-Site: 10/24/25 1145

SHUT DOWN

Personnel: ST

Date/Time On-Site: 10/27/25 10:44

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
10:44	-2.01	0.00	0.00	12.4v
Downloaded to:		Stevens USB		

If flow monitoring is complete:	**If continuing to monitor flow:**
☒ Halt program on flowmeter	☐ Replace flowmeter battery
☒ Download flowmeter data	☐ Reset logging interval to 15 minutes
☒ Remove flowmeter battery	☐ Change velocity cutoff to 0.02 fps
	☐ Start program
	☐ Verify running

Comments:

Date/Time Off-Site: 10/27/25 10:49

STATION: AS-6 **Bottle** 1 **of** 2

Personnel: KJ, ST **Date/Time On-Site:** 10/25/25 @ 1348

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	251025-206	-WC
Approx Sample Volume (mL):	13250 mL	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Black	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25/25 1135	Success	13	10/25/25 1247	Success
2	1151		14	1252	
3	1201		15	1257	
4	1209		16	1302	
5	1215		17	1307	
6	1219		18	1313	
7	1223		19	1319	
8	1227		20	1325	
9	1231		21	1332	
10	1235		22	1339	
11	1239		23	1345	
12	1243		24	1352	

Comments:

Date/Time Off-Site: 10/25/25 1400

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle, add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 10/25/25 1356
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: AS_6 **Bottle** 2 **of** 2

Personnel: KJ, ST **Date/Time On-Site:** 10/25/25 1738

☒ Halt sampler program	
☒ Put lid on sample bottle; label sample bottle	
Sample ID:	25/025-206- -WC
Approx Sample Volume (mL):	1400 mL
Clarity (ex. Clear, Cloudy, Silty):	Clear
Color (ex. Clear, Gray, Tan, Brown, Black):	Tan
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	10/25/25 1406	Success	13		
2	1419	↓	14		
3	1438		15		
4	1505		16		
5	1555	Rinse Error	17		
6			18		
7			19		
8			20		
9			21		
10			22		
11			23		
12			24		

Comments:

Date/Time Off-Site: 10/25/25 1743

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: ~~1743~~ KS
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
~~**1.5"**~~	~~1400 mL~~	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Attachment D: Storm Event Analytical Reports

Report Date: 11/20/2025 15:15

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00451-01	ACST1C	251025-03-WC	Water		10/25/25 13:07	10/26/25 7:09
Comments:	Temperatures at receipt, -1.3 degrees C.					
AC00451-02	ACST1C	251025-11-WC	Water		10/25/25 17:47	10/26/25 7:09
Comments:	Temperatures of 3 carboys at receipt, 0.4, -0.3, and 0.0 degrees C.					
AC00451-03	ACST1C	251025-12-WC	Water		10/25/25 14:05	10/26/25 7:09
Comments:	Temperatures at receipt, 0.8 degrees C.					
AC00451-04	ACST1C	251025-14-WC	Water		10/25/25 16:35	10/26/25 7:09
Comments:	Temperatures of 2 carbopys at receipt, 2.8 and 1.8 degrees C.					

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
No duplication of this report is allowed, except in its entirety

Report Date: 11/20/2025 15:15

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1C	Location Description:	251025-03-WC
Date/Time Collected:	10/25/2025 10:14 - 10/25/2025 13:07		
Lab Number:	AC00451-01	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B253596	0.468	mg/L	0.0450	0.0450	Timberline Ammonia-001	11/04/25	11/4/25 13:15	ALN	
BOD5	B253505	18.9	mg/L	2.00	2.00	SM 5210 B-2016	10/27/25	11/1/25 8:50	RHC	
Chloride	B253762	2.51	mg/L	0.0200	0.0200	EPA 300.0, Rev. 2.1 (1993)	11/20/25	11/20/25 10:05	RHC	
COD	B253502	75.0	mg/L	7.00	7.00	HH 8000, SM 5220D	10/26/25	10/26/25 11:20	ASE	
Nitrate-Nitrite, as N	B253630	0.256	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	11/06/25	11/6/25 10:12	LRF	
TKN	B253568	1.07	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	10/31/25	10/31/25 14:00	ALN	
Total Dissolved Solids	B253515	54.0	mg/L	25.0	25.0	SM 2540 C-2015	10/29/25	10/29/25 14:54	BAK	
Total Suspended Solids	B253517	62.5	mg/L	0.900	0.900	SM 2540 D-2015	10/27/25	10/27/25 10:27	MEC	
Turbidity	B253510	19.6	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	10/27/25	10/27/25 8:28	ASE	
Dissolved Wet Chemistry										
Orthophosphate, as P	B253501	0.283	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	10/26/25	10/26/25 11:10	EDM	
Total Metals										
Mercury	B253529	0.0170	ug/L	6.00E-3	6.00E-3	EPA 245.1	10/29/25	10/29/25 13:46	SAS	J
Arsenic	B253624	1.21	ug/L	0.050	0.050	EPA 200.8	11/10/25	11/11/25 15:13	DMW	
Cadmium	B253624	0.0381	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:13	DMW	
Calcium	B253546	6.24	mg/L	0.0500	0.0500	EPA 200.7	10/30/25	11/4/25 13:11	SMC	
Lead	B253624	0.947	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:13	DMW	
Magnesium	B253546	886	ug/L	40.0	40.0	EPA 200.7	10/30/25	11/4/25 13:11	SMC	
Phosphorus as P	B253546	0.429	mg/L	0.0110	0.0110	EPA 200.7	10/30/25	11/4/25 13:11	SMC	
Hardness	B253546	19.2	mg/L	0.125	0.125	SM 2340 B-2011	10/30/25	11/4/25 13:11	SMC	
Dissolved Metals										
Cadmium	B253623	ND	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/10/25 14:45	DMW	U
Copper	B253623	3.57	ug/L	0.14	0.14	EPA 200.8	11/10/25	11/10/25 14:45	DMW	
Lead	B253623	0.0867	ug/L	5.00E-3	5.00E-3	EPA 200.8	11/10/25	11/10/25 14:45	DMW	
Zinc	B253623	38.5	ug/L	0.50	0.50	EPA 200.8	11/10/25	11/10/25 14:45	DMW	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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No duplication of this report is allowed, except in its entirety

Report Date: 11/20/2025 15:15

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1C	Location Description:	251025-11-WC
Date/Time Collected:	10/25/2025 11:40 - 10/25/2025 17:47		
Lab Number:	AC00451-02	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B253596	0.199	mg/L	0.0450	0.0450	Timberline Ammonia-001	11/04/25	11/4/25 13:22	ALN	
BOD5	B253505	43.9	mg/L	2.00	2.00	SM 5210 B-2016	10/27/25	11/1/25 8:45	RHC	
Chloride	B253762	16.1	mg/L	0.0200	0.0200	EPA 300.0, Rev. 2.1 (1993)	11/20/25	11/20/25 10:32	RHC	
COD	B253502	125	mg/L	7.00	7.00	HH 8000, SM 5220D	10/26/25	10/26/25 11:32	ASE	
Nitrate-Nitrite, as N	B253630	0.442	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	11/06/25	11/6/25 10:13	LRF	
TKN	B253568	1.07	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	10/31/25	10/31/25 14:01	ALN	
Total Dissolved Solids	B253515	139	mg/L	25.0	25.0	SM 2540 C-2015	10/29/25	10/29/25 14:56	BAK	
Total Suspended Solids	B253517	26.6	mg/L	0.900	0.900	SM 2540 D-2015	10/27/25	10/27/25 10:26	MEC	
Turbidity	B253510	23.8	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	10/27/25	10/27/25 8:54	ASE	
Dissolved Wet Chemistry										
Orthophosphate, as P	B253501	0.484	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	10/26/25	10/26/25 11:15	EDM	
Total Metals										
Mercury	B253529	0.0173	ug/L	6.00E-3	6.00E-3	EPA 245.1	10/29/25	10/29/25 13:50	SAS	J
Arsenic	B253624	2.81	ug/L	0.050	0.050	EPA 200.8	11/10/25	11/11/25 15:31	DMW	
Cadmium	B253624	0.0422	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:31	DMW	
Calcium	B253546	14.9	mg/L	0.0500	0.0500	EPA 200.7	10/30/25	11/4/25 13:14	SMC	
Lead	B253624	2.65	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:31	DMW	
Magnesium	B253546	2780	ug/L	40.0	40.0	EPA 200.7	10/30/25	11/4/25 13:14	SMC	
Phosphorus as P	B253546	0.663	mg/L	0.0110	0.0110	EPA 200.7	10/30/25	11/4/25 13:14	SMC	
Hardness	B253546	48.6	mg/L	0.125	0.125	SM 2340 B-2011	10/30/25	11/4/25 13:14	SMC	
Dissolved Metals										
Cadmium	B253623	ND	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/10/25 14:49	DMW	U
Copper	B253623	4.58	ug/L	0.14	0.14	EPA 200.8	11/10/25	11/10/25 14:49	DMW	
Lead	B253623	0.255	ug/L	5.00E-3	5.00E-3	EPA 200.8	11/10/25	11/10/25 14:49	DMW	
Zinc	B253623	20.1	ug/L	0.50	0.50	EPA 200.8	11/10/25	11/10/25 14:49	DMW	

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Report Date: 11/20/2025 15:15

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Water Quality Laboratory
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Boise, Idaho 83714-1076
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Analysis Report

Location:	ACST1C	Location Description:	251025-12-WC
Date/Time Collected:	10/25/2025 10:38 - 10/25/2025 14:05		
Lab Number:	AC00451-03	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B253596	0.781	mg/L	0.0450	0.0450	Timberline Ammonia-001	11/04/25	11/4/25 13:12	ALN	
BOD5	B253505	13.6	mg/L	2.00	2.00	SM 5210 B-2016	10/27/25	11/1/25 8:35	RHC	
Chloride	B253762	1.67	mg/L	0.0200	0.0200	EPA 300.0, Rev. 2.1 (1993)	11/20/25	11/20/25 10:58	RHC	
COD	B253502	74.0	mg/L	7.00	7.00	HH 8000, SM 5220D	10/26/25	10/26/25 11:32	ASE	
Nitrate-Nitrite, as N	B253630	0.277	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	11/06/25	11/6/25 10:14	LRF	
TKN	B253568	1.02	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	10/31/25	10/31/25 14:04	ALN	
Total Dissolved Solids	B253515	42.8	mg/L	25.0	25.0	SM 2540 C-2015	10/29/25	10/29/25 14:59	BAK	
Total Suspended Solids	B253517	33.8	mg/L	0.900	0.900	SM 2540 D-2015	10/27/25	10/27/25 10:34	MEC	
Turbidity	B253510	33.1	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	10/27/25	10/27/25 8:33	ASE	
Dissolved Wet Chemistry										
Orthophosphate, as P	B253501	0.117	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	10/26/25	10/26/25 11:16	EDM	
Total Metals										
Mercury	B253529	0.0195	ug/L	6.00E-3	6.00E-3	EPA 245.1	10/29/25	10/29/25 13:22	SAS	J
Arsenic	B253624	2.59	ug/L	0.050	0.050	EPA 200.8	11/10/25	11/11/25 15:36	DMW	
Cadmium	B253624	0.0571	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:36	DMW	
Calcium	B253546	4.67	mg/L	0.0500	0.0500	EPA 200.7	10/30/25	11/4/25 13:31	SMC	
Lead	B253624	3.60	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:36	DMW	
Magnesium	B253546	848	ug/L	40.0	40.0	EPA 200.7	10/30/25	11/4/25 13:31	SMC	
Phosphorus as P	B253546	0.200	mg/L	0.0110	0.0110	EPA 200.7	10/30/25	11/4/25 13:31	SMC	
Hardness	B253546	15.2	mg/L	0.125	0.125	SM 2340 B-2011	10/30/25	11/4/25 13:31	SMC	
Dissolved Metals										
Cadmium	B253623	0.0140	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/10/25 14:54	DMW	
Copper	B253623	4.49	ug/L	0.14	0.14	EPA 200.8	11/10/25	11/10/25 14:54	DMW	
Lead	B253623	0.218	ug/L	5.00E-3	5.00E-3	EPA 200.8	11/10/25	11/10/25 14:54	DMW	
Zinc	B253623	32.9	ug/L	0.50	0.50	EPA 200.8	11/10/25	11/10/25 14:54	DMW	

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Analysis Report

Location:	ACST1C	Location Description:	251025-14-WC
Date/Time Collected:	10/25/2025 09:33 - 10/25/2025 16:35		
Lab Number:	AC00451-04	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B253596	0.319	mg/L	0.0450	0.0450	Timberline Ammonia-001	11/04/25	11/4/25 13:19	ALN	
BOD5	B253505	24.1	mg/L	2.00	2.00	SM 5210 B-2016	10/27/25	11/1/25 8:29	RHC	
Chloride	B253762	21.1	mg/L	0.0200	0.0200	EPA 300.0, Rev. 2.1 (1993)	11/20/25	11/20/25 11:25	RHC	
COD	B253502	78.0	mg/L	7.00	7.00	HH 8000, SM 5220D	10/26/25	10/26/25 11:32	ASE	
Nitrate-Nitrite, as N	B253630	0.560	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	11/06/25	11/6/25 10:15	LRF	
TKN	B253568	0.851	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	10/31/25	10/31/25 14:05	ALN	
Total Dissolved Solids	B253515	130	mg/L	25.0	25.0	SM 2540 C-2015	10/29/25	10/29/25 15:00	BAK	
Total Suspended Solids	B253517	31.9	mg/L	0.900	0.900	SM 2540 D-2015	10/27/25	10/27/25 10:40	MEC	
Turbidity	B253510	21.1	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	10/27/25	10/27/25 8:49	ASE	
Dissolved Wet Chemistry										
Orthophosphate, as P	B253501	0.238	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	10/26/25	10/26/25 11:17	EDM	
Total Metals										
Mercury	B253529	0.0118	ug/L	6.00E-3	6.00E-3	EPA 245.1	10/29/25	10/29/25 13:53	SAS	J
Arsenic	B253624	2.80	ug/L	0.050	0.050	EPA 200.8	11/10/25	11/11/25 15:40	DMW	
Cadmium	B253624	0.0548	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:40	DMW	
Calcium	B253546	16.9	mg/L	0.0500	0.0500	EPA 200.7	10/30/25	11/4/25 13:34	SMC	
Lead	B253624	2.33	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:40	DMW	
Magnesium	B253546	3070	ug/L	40.0	40.0	EPA 200.7	10/30/25	11/4/25 13:34	SMC	
Phosphorus as P	B253546	0.356	mg/L	0.0110	0.0110	EPA 200.7	10/30/25	11/4/25 13:34	SMC	
Hardness	B253546	54.7	mg/L	0.125	0.125	SM 2340 B-2011	10/30/25	11/4/25 13:34	SMC	
Dissolved Metals										
Cadmium	B253623	0.0111	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/10/25 15:12	DMW	
Copper	B253623	3.62	ug/L	0.14	0.14	EPA 200.8	11/10/25	11/10/25 15:12	DMW	
Lead	B253623	0.0674	ug/L	5.00E-3	5.00E-3	EPA 200.8	11/10/25	11/10/25 15:12	DMW	
Zinc	B253623	22.6	ug/L	0.50	0.50	EPA 200.8	11/10/25	11/10/25 15:12	DMW	

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Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry									
Batch: B253502									
Blank (B253502-BLK1)									
COD	<7	mg/L					10/26/2025	ASE	U
LCS (B253502-BS1)									
COD			98.0	90-110			10/26/2025	ASE	
Duplicate (B253502-DUP1)	Source ID: AC00451-01								
COD					2.70	10	10/26/2025	ASE	
Batch: B253505									
Blank (B253505-BLK1)									
BOD5	<2	mg/L					11/01/2025	RHC	Seed-01, U
LCS (B253505-BS1)									
BOD5			90.3	84.6-115.4			11/01/2025	RHC	
LCS (B253505-BS2)									
BOD5			101	84.6-115.4			11/01/2025	RHC	
Duplicate (B253505-DUP1)	Source ID: LS02525-02								
BOD5					5.57	30	11/01/2025	RHC	
Batch: B253510									
Blank (B253510-BLK1)									
Turbidity	<0.3	NTU					10/27/2025	ASE	U
LCS (B253510-BS1)									
Turbidity			101	90-110			10/27/2025	ASE	
Duplicate (B253510-DUP1)	Source ID: AC00451-03								
Turbidity					0.302	25	10/27/2025	ASE	
Batch: B253515									
Blank (B253515-BLK1)									
Total Dissolved Solids	<25	mg/L					10/28/2025	BAK	U
LCS (B253515-BS1)									
Total Dissolved Solids			92.7	90-110			10/28/2025	BAK	
Duplicate (B253515-DUP1)	Source ID: AC00451-02								
Total Dissolved Solids					1.69	10	10/29/2025	BAK	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B253517									
Blank (B253517-BLK1)									
Total Suspended Solids	<0.9	mg/L					10/27/2025	MEC	U
LCS (B253517-BS1)									
Total Suspended Solids			99.4	90-110			10/27/2025	MEC	
Duplicate (B253517-DUP1) Source ID: LS02525-02									
Total Suspended Solids					2.80	20	10/27/2025	MEC	
Duplicate (B253517-DUP2) Source ID: WB04050-07									
Total Suspended Solids					0.158	20	10/27/2025	MEC	
Batch: B253568									
Blank (B253568-BLK1)									
TKN	<0.1	mg/L					10/31/2025	ALN	U
LCS (B253568-BS1)									
TKN			98.1	80-120			10/31/2025	ALN	
Duplicate (B253568-DUP1) Source ID: AC00450-01									
TKN					5.94	20	10/31/2025	ALN	
Duplicate (B253568-DUP2) Source ID: LS02527-02									
TKN					4.57	20	10/31/2025	ALN	D
Matrix Spike (B253568-MS1) Source ID: AC00450-01									
TKN			104	80-120			10/31/2025	ALN	
Matrix Spike (B253568-MS2) Source ID: LS02527-02									
TKN			97.6	80-120			10/31/2025	ALN	D
Matrix Spike (B253568-MS3) Source ID: EP00515-01									
TKN			110	80-120			10/31/2025	ALN	
Matrix Spike (B253568-MS4) Source ID: EP00515-01RE1									
TKN			80.5	80-120			10/31/2025	ALN	D
Matrix Spike (B253568-MS6) Source ID: EP00515-02RE1									
TKN			86.4	80-120			10/31/2025	ALN	D
Matrix Spike Dup (B253568-MSD1) Source ID: AC00450-01									
TKN			89.4	80-120	9.31	20	10/31/2025	ALN	
Matrix Spike Dup (B253568-MSD2) Source ID: LS02527-02									
TKN			90.1	80-120	3.11	20	10/31/2025	ALN	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B253596									
Blank (B253596-BLK1)									
Ammonia, as N	<0.045	mg/L					11/04/2025	ALN	U
Blank (B253596-BLK2)									
Ammonia, as N	<0.045	mg/L					11/04/2025	ALN	U
LCS (B253596-BS1)									
Ammonia, as N			97.4	90-110			11/04/2025	ALN	
LCS (B253596-BS2)									
Ammonia, as N			103	90-110			11/04/2025	ALN	
Duplicate (B253596-DUP1) Source ID: AC00450-01									
Ammonia, as N					0.643	20	11/04/2025	ALN	
Duplicate (B253596-DUP2) Source ID: BB05146-01									
Ammonia, as N					0.383	20	11/04/2025	ALN	
Matrix Spike (B253596-MS1) Source ID: AC00450-01									
Ammonia, as N			108	84-115			11/04/2025	ALN	
Matrix Spike (B253596-MS2) Source ID: BB05146-01									
Ammonia, as N			95.6	84-115			11/04/2025	ALN	
Matrix Spike Dup (B253596-MSD1) Source ID: AC00450-01									
Ammonia, as N			108	84-115	0.403	20	11/04/2025	ALN	
Matrix Spike Dup (B253596-MSD2) Source ID: BB05146-01									
Ammonia, as N			98.7	84-115	1.55	20	11/04/2025	ALN	
Batch: B253630									
Blank (B253630-BLK1)									
Nitrate-Nitrite, as N	<0.025	mg/L					11/06/2025	LRF	U
Blank (B253630-BLK2)									
Nitrate-Nitrite, as N	<0.025	mg/L					11/06/2025	LRF	U
Blank (B253630-BLK3)									
Nitrate-Nitrite, as N	<0.025	mg/L					11/06/2025	LRF	U
Blank (B253630-BLK4)									
Nitrate-Nitrite, as N	<0.025	mg/L					11/06/2025	LRF	U
LCS (B253630-BS1)									
Nitrate-Nitrite, as N			103	90-110			11/06/2025	LRF	
LCS (B253630-BS2)									
Nitrate-Nitrite, as N			102	90-110			11/06/2025	LRF	
LCS (B253630-BS3)									
Nitrate-Nitrite, as N			106	90-110			11/06/2025	LRF	
Duplicate (B253630-DUP1) Source ID: BB05161-02									
Nitrate-Nitrite, as N					0.775	10	11/06/2025	LRF	
Duplicate (B253630-DUP2) Source ID: BB05159-01									
Nitrate-Nitrite, as N					0.254	10	11/06/2025	LRF	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B253630 (Continued)									
Duplicate (B253630-DUP3) Source ID: EP00511-01									
Nitrate-Nitrite, as N					NR	10	11/06/2025	LRF	U
Duplicate (B253630-DUP4) Source ID: BB05160-02									
Nitrate-Nitrite, as N					2.36	10	11/06/2025	LRF	
Duplicate (B253630-DUP5) Source ID: WB04071-06									
Nitrate-Nitrite, as N					0.0172	10	11/06/2025	LRF	
Matrix Spike (B253630-MS1) Source ID: BB05161-02									
Nitrate-Nitrite, as N			96.3	90-110			11/06/2025	LRF	
Matrix Spike (B253630-MS2) Source ID: BB05159-01									
Nitrate-Nitrite, as N			100	90-110			11/06/2025	LRF	
Matrix Spike (B253630-MS3) Source ID: EP00511-01									
Nitrate-Nitrite, as N			104	90-110			11/06/2025	LRF	
Matrix Spike (B253630-MS4) Source ID: BB05160-02									
Nitrate-Nitrite, as N			100	90-110			11/06/2025	LRF	
Matrix Spike (B253630-MS5) Source ID: WB04071-06									
Nitrate-Nitrite, as N			103	90-110			11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD1) Source ID: BB05161-02									
Nitrate-Nitrite, as N			99.2	90-110	2.27	10	11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD2) Source ID: BB05159-01									
Nitrate-Nitrite, as N			103	90-110	0.881	10	11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD3) Source ID: EP00511-01									
Nitrate-Nitrite, as N			106	90-110	2.59	10	11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD4) Source ID: BB05160-02									
Nitrate-Nitrite, as N			97.4	90-110	2.35	10	11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD5) Source ID: WB04071-06									
Nitrate-Nitrite, as N			105	90-110	0.440	10	11/06/2025	LRF	
Batch: B253762									
Blank (B253762-BLK1)									
Chloride	<0.02	mg/L					11/19/2025	RHC	U
LCS (B253762-BS1)									
Chloride			98.2	90-110			11/19/2025	RHC	
Duplicate (B253762-DUP1) Source ID: AC00450-01									
Chloride					0.432	10	11/20/2025	RHC	
Matrix Spike (B253762-MS1) Source ID: AC00450-01									
Chloride			99.1	90-110			11/20/2025	RHC	
Matrix Spike Dup (B253762-MSD1) Source ID: AC00450-01									
Chloride			98.0	90-110	0.830	10	11/20/2025	RHC	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Wet Chemistry									
Batch: B253501									
Blank (B253501-BLK1)									
Orthophosphate, as P	<0.003	mg/L					10/26/2025	EDM	U
LCS (B253501-BS1)									
Orthophosphate, as P			94.8	90-110			10/26/2025	EDM	
Duplicate (B253501-DUP1) Source ID: AC00451-01									
Orthophosphate, as P					0.208	10	10/26/2025	EDM	
Matrix Spike (B253501-MS1) Source ID: AC00451-01									
Orthophosphate, as P			98.9	90-110			10/26/2025	EDM	
Matrix Spike Dup (B253501-MSD1) Source ID: AC00451-01									
Orthophosphate, as P			104	90-110	1.34	10	10/26/2025	EDM	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals									
Batch: B253529									
Blank (B253529-BLK1)									
Mercury	<0.006	ug/L					10/29/2025	SAS	U
Blank (B253529-BLK2)									
Mercury	<0.006	ug/L					10/29/2025	SAS	U
LCS (B253529-BS1)									
Mercury			99.6	85-115			10/29/2025	SAS	
Duplicate (B253529-DUP1) Source ID: BB05138-01									
Mercury					NR	20	10/29/2025	SAS	U
Duplicate (B253529-DUP2) Source ID: AC00451-03									
Mercury					2.63	20	10/29/2025	SAS	J
Matrix Spike (B253529-MS1) Source ID: BB05138-01									
Mercury			101	70-130			10/29/2025	SAS	
Matrix Spike (B253529-MS2) Source ID: AC00451-03									
Mercury			99.3	70-130			10/29/2025	SAS	
Matrix Spike Dup (B253529-MSD1) Source ID: BB05138-01									
Mercury			101	70-130	0.317	20	10/29/2025	SAS	
Matrix Spike Dup (B253529-MSD2) Source ID: AC00451-03									
Mercury			99.0	70-130	0.320	20	10/29/2025	SAS	
Batch: B253546									
Blank (B253546-BLK1)									
Calcium	<0.05	mg/L					11/04/2025	SMC	U
Magnesium	<40	ug/L					11/04/2025	SMC	U
Phosphorus as P	<0.011	mg/L					11/04/2025	SMC	U
LCS (B253546-BS1)									
Calcium			97.7	85-115			11/04/2025	SMC	
Magnesium			97.7	85-115			11/04/2025	SMC	
Phosphorus as P			102	85-115			11/04/2025	SMC	
Duplicate (B253546-DUP1) Source ID: AC00451-02									
Calcium					0.335	20	11/04/2025	SMC	
Magnesium					1.08	20	11/04/2025	SMC	
Phosphorus as P					0.684	20	11/04/2025	SMC	
Duplicate (B253546-DUP2) Source ID: AC00452-01									
Calcium					0.0205	20	11/04/2025	SMC	
Magnesium					1.66	20	11/04/2025	SMC	
Phosphorus as P					0.149	20	11/04/2025	SMC	
Matrix Spike (B253546-MS1) Source ID: AC00451-02									
Calcium			96.8	70-130			11/04/2025	SMC	
Magnesium			97.4	70-130			11/04/2025	SMC	
Phosphorus as P			98.7	70-130			11/04/2025	SMC	
Matrix Spike (B253546-MS2) Source ID: AC00452-01									
Calcium			97.2	70-130			11/04/2025	SMC	
Magnesium			96.8	70-130			11/04/2025	SMC	
Phosphorus as P			106	70-130			11/04/2025	SMC	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals (Continued)									
Batch: B253546 (Continued)									
Matrix Spike Dup (B253546-MSD1) Source ID: AC00451-02									
Calcium			100	70-130	1.63	20	11/04/2025	SMC	
Magnesium			98.7	70-130	1.08	20	11/04/2025	SMC	
Phosphorus as P			103	70-130	1.66	20	11/04/2025	SMC	
Matrix Spike Dup (B253546-MSD2) Source ID: AC00452-01									
Calcium			99.7	70-130	1.39	20	11/04/2025	SMC	
Magnesium			97.9	70-130	1.01	20	11/04/2025	SMC	
Phosphorus as P			107	70-130	0.991	20	11/04/2025	SMC	
Batch: B253624									
Blank (B253624-BLK1)									
Arsenic	<0.050	ug/L					11/11/2025	DMW	U
Cadmium	<0.010	ug/L					11/11/2025	DMW	U
Lead	<0.010	ug/L					11/11/2025	DMW	U
LCS (B253624-BS1)									
Arsenic			98.4	85-115			11/11/2025	DMW	
Cadmium			102	85-115			11/11/2025	DMW	
Lead			104	85-115			11/11/2025	DMW	
Duplicate (B253624-DUP1) Source ID: AC00451-01									
Arsenic					1.90	20	11/11/2025	DMW	
Cadmium					4.85	20	11/11/2025	DMW	
Lead					1.98	20	11/11/2025	DMW	
Matrix Spike (B253624-MS1) Source ID: AC00451-01									
Arsenic			99.9	70-130			11/11/2025	DMW	
Cadmium			101	70-130			11/11/2025	DMW	
Lead			104	70-130			11/11/2025	DMW	
Matrix Spike Dup (B253624-MSD1) Source ID: AC00451-01									
Arsenic			100	70-130	0.508	20	11/11/2025	DMW	
Cadmium			102	70-130	0.702	20	11/11/2025	DMW	
Lead			105	70-130	1.38	20	11/11/2025	DMW	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Metals									
Batch: B253623									
Blank (B253623-BLK1)									
Cadmium	<0.010	ug/L					11/10/2025	DMW	U
Copper	<0.14	ug/L					11/10/2025	DMW	U
Lead	<0.0050	ug/L					11/10/2025	DMW	U
Zinc	<0.50	ug/L					11/10/2025	DMW	U
LCS (B253623-BS1)									
Cadmium			98.3	85-115			11/10/2025	DMW	
Copper			98.2	85-115			11/10/2025	DMW	
Lead			101	85-115			11/10/2025	DMW	
Zinc			103	85-115			11/10/2025	DMW	
Duplicate (B253623-DUP1) Source ID: AC00451-03									
Cadmium					22.1	10	11/10/2025	DMW	QC-02
Copper					0.724	10	11/10/2025	DMW	
Lead					0.633	10	11/10/2025	DMW	
Zinc					0.164	10	11/10/2025	DMW	
Matrix Spike (B253623-MS1) Source ID: AC00451-03									
Cadmium			99.0	70-130			11/10/2025	DMW	
Copper			97.1	70-130			11/10/2025	DMW	
Lead			101	70-130			11/10/2025	DMW	
Zinc			102	70-130			11/10/2025	DMW	
Matrix Spike Dup (B253623-MSD1) Source ID: AC00451-03									
Cadmium			95.9	70-130	3.17	10	11/10/2025	DMW	
Copper			95.5	70-130	1.17	10	11/10/2025	DMW	
Lead			98.2	70-130	2.48	10	11/10/2025	DMW	
Zinc			99.5	70-130	0.952	10	11/10/2025	DMW	

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Notes and Definitions

Item	Definition
D	Data reported from a dilution
J	Estimated value
QC-02	The RPD is greater than the method acceptance criteria. At least one of the values used to calculate the RPD, is less than or equal to the PQL.
Seed-01	The seed depletion is greater than that recommended by the method. The LCS is acceptable showing the seed supports the method.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714–6418
Tel. (208) 407–4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristen Jolliffe
Steven Turner

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
AC00451-01	10/25/25	10/25/25	1014	1307	251025-03-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	1
-02			1140	1747	251025-11-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	3
-03			1038	1405	251025-12-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	1
-04			0933	1635	251025-14-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	2

Relinquished by (sign)	Date &Time Transferred	Received by (sign)	Comments/ Special Instructions
Kristen Jolliffe	10/25/25 1943	A ORRISON 10/26/25 0709	251025-14-WC is in Glass Fridge 251025-11-WC and 251025-~~14~~-12-WC are in Ant Man.

-03 temp @ rcpt - 1.3°C, -14 temp @ rcpt Btl 1 of 2 2.8°C Btl 2 of 2 1.8°C, -12 temp @ rcpt +0.8°C

-11 temp @ rcpt Btl 1 of 2 +2.1°C

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Report Date: 11/20/2025 15:16

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Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00450-01	ACST1C	251025-206-WC	Water		10/25/25 15:05	10/26/25 7:08

Comments:

Temperatures of 2 carboys at receipt, -0.8 and 1.6 degrees C.

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Analysis Report

Location:	ACST1C	Location Description:	251025-206-WC
Date/Time Collected:	10/25/2025 11:35 - 10/25/2025 15:05		
Lab Number:	AC00450-01	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B253596	0.264	mg/L	0.0450	0.0450	Timberline Ammonia-001	11/04/25	11/4/25 12:58	ALN	
BOD5	B253505	96.4	mg/L	2.00	2.00	SM 5210 B-2016	10/27/25	11/1/25 8:57	RHC	
Chloride	B253762	6.52	mg/L	0.0200	0.0200	EPA 300.0, Rev. 2.1 (1993)	11/20/25	11/20/25 8:19	RHC	
COD	B253502	277	mg/L	7.00	7.00	HH 8000, SM 5220D	10/26/25	10/26/25 11:20	ASE	
Nitrate-Nitrite, as N	B253630	0.210	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	11/06/25	11/6/25 10:10	LRF	
TKN	B253568	3.15	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	10/31/25	10/31/25 13:55	ALN	
Total Dissolved Solids	B253515	166	mg/L	25.0	25.0	SM 2540 C-2015	10/29/25	10/29/25 15:03	BAK	
Total Suspended Solids	B253517	143	mg/L	0.900	0.900	SM 2540 D-2015	10/27/25	10/27/25 10:33	MEC	
Turbidity	B253510	68.5	NTU	0.6	0.3	EPA 180.1, Rev. 2.0 (1993)	10/27/25	10/27/25 8:44	ASE	D
Dissolved Wet Chemistry										
Orthophosphate, as P	B253501	1.03	mg/L	0.0150	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	10/26/25	10/26/25 11:19	EDM	D
Total Metals										
Mercury	B253529	0.0240	ug/L	6.00E-3	6.00E-3	EPA 245.1	10/29/25	10/29/25 13:43	SAS	J
Arsenic	B253624	2.44	ug/L	0.050	0.050	EPA 200.8	11/10/25	11/11/25 15:08	DMW	
Cadmium	B253624	0.0822	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:08	DMW	
Calcium	B253546	9.10	mg/L	0.0500	0.0500	EPA 200.7	10/30/25	11/4/25 13:08	SMC	
Lead	B253624	6.06	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/11/25 15:08	DMW	
Magnesium	B253546	2280	ug/L	40.0	40.0	EPA 200.7	10/30/25	11/4/25 13:08	SMC	
Phosphorus as P	B253546	1.38	mg/L	0.0110	0.0110	EPA 200.7	10/30/25	11/4/25 13:08	SMC	
Hardness	B253546	32.1	mg/L	0.125	0.125	SM 2340 B-2011	10/30/25	11/4/25 13:08	SMC	
Dissolved Metals										
Cadmium	B253623	0.0178	ug/L	0.010	0.010	EPA 200.8	11/10/25	11/10/25 14:40	DMW	
Copper	B253623	7.55	ug/L	0.14	0.14	EPA 200.8	11/10/25	11/10/25 14:40	DMW	
Lead	B253623	0.870	ug/L	5.00E-3	5.00E-3	EPA 200.8	11/10/25	11/10/25 14:40	DMW	
Zinc	B253623	46.1	ug/L	0.50	0.50	EPA 200.8	11/10/25	11/10/25 14:40	DMW	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 11/20/2025 15:16

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry									
Batch: B253502									
Blank (B253502-BLK1)									
COD	<7	mg/L					10/26/2025	ASE	U
LCS (B253502-BS1)									
COD			98.0	90-110			10/26/2025	ASE	
Duplicate (B253502-DUP1)	Source ID: AC00451-01								
COD					2.70	10	10/26/2025	ASE	
Batch: B253505									
Blank (B253505-BLK1)									
BOD5	<2	mg/L					11/01/2025	RHC	Seed-01, U
LCS (B253505-BS1)									
BOD5			90.3	84.6-115.4			11/01/2025	RHC	
LCS (B253505-BS2)									
BOD5			101	84.6-115.4			11/01/2025	RHC	
Duplicate (B253505-DUP1)	Source ID: LS02525-02								
BOD5					5.57	30	11/01/2025	RHC	
Batch: B253510									
Blank (B253510-BLK1)									
Turbidity	<0.3	NTU					10/27/2025	ASE	U
LCS (B253510-BS1)									
Turbidity			101	90-110			10/27/2025	ASE	
Duplicate (B253510-DUP1)	Source ID: AC00451-03								
Turbidity					0.302	25	10/27/2025	ASE	
Batch: B253515									
Blank (B253515-BLK1)									
Total Dissolved Solids	<25	mg/L					10/28/2025	BAK	U
LCS (B253515-BS1)									
Total Dissolved Solids			92.7	90-110			10/28/2025	BAK	
Duplicate (B253515-DUP1)	Source ID: AC00451-02								
Total Dissolved Solids					1.69	10	10/29/2025	BAK	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B253517									
Blank (B253517-BLK1)									
Total Suspended Solids	<0.9	mg/L					10/27/2025	MEC	U
LCS (B253517-BS1)									
Total Suspended Solids			99.4	90-110			10/27/2025	MEC	
Duplicate (B253517-DUP1) Source ID: LS02525-02									
Total Suspended Solids					2.80	20	10/27/2025	MEC	
Duplicate (B253517-DUP2) Source ID: WB04050-07									
Total Suspended Solids					0.158	20	10/27/2025	MEC	
Batch: B253568									
Blank (B253568-BLK1)									
TKN	<0.1	mg/L					10/31/2025	ALN	U
LCS (B253568-BS1)									
TKN			98.1	80-120			10/31/2025	ALN	
Duplicate (B253568-DUP1) Source ID: AC00450-01									
TKN					5.94	20	10/31/2025	ALN	
Duplicate (B253568-DUP2) Source ID: LS02527-02									
TKN					4.57	20	10/31/2025	ALN	D
Matrix Spike (B253568-MS1) Source ID: AC00450-01									
TKN			104	80-120			10/31/2025	ALN	
Matrix Spike (B253568-MS2) Source ID: LS02527-02									
TKN			97.6	80-120			10/31/2025	ALN	D
Matrix Spike (B253568-MS3) Source ID: EP00515-01									
TKN			110	80-120			10/31/2025	ALN	
Matrix Spike (B253568-MS4) Source ID: EP00515-01RE1									
TKN			80.5	80-120			10/31/2025	ALN	D
Matrix Spike (B253568-MS6) Source ID: EP00515-02RE1									
TKN			86.4	80-120			10/31/2025	ALN	D
Matrix Spike Dup (B253568-MSD1) Source ID: AC00450-01									
TKN			89.4	80-120	9.31	20	10/31/2025	ALN	
Matrix Spike Dup (B253568-MSD2) Source ID: LS02527-02									
TKN			90.1	80-120	3.11	20	10/31/2025	ALN	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B253596									
Blank (B253596-BLK1)									
Ammonia, as N	<0.045	mg/L					11/04/2025	ALN	U
Blank (B253596-BLK2)									
Ammonia, as N	<0.045	mg/L					11/04/2025	ALN	U
LCS (B253596-BS1)									
Ammonia, as N			97.4	90-110			11/04/2025	ALN	
LCS (B253596-BS2)									
Ammonia, as N			103	90-110			11/04/2025	ALN	
Duplicate (B253596-DUP1) Source ID: AC00450-01									
Ammonia, as N					0.643	20	11/04/2025	ALN	
Duplicate (B253596-DUP2) Source ID: BB05146-01									
Ammonia, as N					0.383	20	11/04/2025	ALN	
Matrix Spike (B253596-MS1) Source ID: AC00450-01									
Ammonia, as N			108	84-115			11/04/2025	ALN	
Matrix Spike (B253596-MS2) Source ID: BB05146-01									
Ammonia, as N			95.6	84-115			11/04/2025	ALN	
Matrix Spike Dup (B253596-MSD1) Source ID: AC00450-01									
Ammonia, as N			108	84-115	0.403	20	11/04/2025	ALN	
Matrix Spike Dup (B253596-MSD2) Source ID: BB05146-01									
Ammonia, as N			98.7	84-115	1.55	20	11/04/2025	ALN	
Batch: B253630									
Blank (B253630-BLK1)									
Nitrate-Nitrite, as N	<0.025	mg/L					11/06/2025	LRF	U
Blank (B253630-BLK2)									
Nitrate-Nitrite, as N	<0.025	mg/L					11/06/2025	LRF	U
Blank (B253630-BLK3)									
Nitrate-Nitrite, as N	<0.025	mg/L					11/06/2025	LRF	U
Blank (B253630-BLK4)									
Nitrate-Nitrite, as N	<0.025	mg/L					11/06/2025	LRF	U
LCS (B253630-BS1)									
Nitrate-Nitrite, as N			103	90-110			11/06/2025	LRF	
LCS (B253630-BS2)									
Nitrate-Nitrite, as N			102	90-110			11/06/2025	LRF	
LCS (B253630-BS3)									
Nitrate-Nitrite, as N			106	90-110			11/06/2025	LRF	
Duplicate (B253630-DUP1) Source ID: BB05161-02									
Nitrate-Nitrite, as N					0.775	10	11/06/2025	LRF	
Duplicate (B253630-DUP2) Source ID: BB05159-01									
Nitrate-Nitrite, as N					0.254	10	11/06/2025	LRF	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B253630 (Continued)									
Duplicate (B253630-DUP3) Source ID: EP00511-01									
Nitrate-Nitrite, as N					NR	10	11/06/2025	LRF	U
Duplicate (B253630-DUP4) Source ID: BB05160-02									
Nitrate-Nitrite, as N					2.36	10	11/06/2025	LRF	
Duplicate (B253630-DUP5) Source ID: WB04071-06									
Nitrate-Nitrite, as N					0.0172	10	11/06/2025	LRF	
Matrix Spike (B253630-MS1) Source ID: BB05161-02									
Nitrate-Nitrite, as N			96.3	90-110			11/06/2025	LRF	
Matrix Spike (B253630-MS2) Source ID: BB05159-01									
Nitrate-Nitrite, as N			100	90-110			11/06/2025	LRF	
Matrix Spike (B253630-MS3) Source ID: EP00511-01									
Nitrate-Nitrite, as N			104	90-110			11/06/2025	LRF	
Matrix Spike (B253630-MS4) Source ID: BB05160-02									
Nitrate-Nitrite, as N			100	90-110			11/06/2025	LRF	
Matrix Spike (B253630-MS5) Source ID: WB04071-06									
Nitrate-Nitrite, as N			103	90-110			11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD1) Source ID: BB05161-02									
Nitrate-Nitrite, as N			99.2	90-110	2.27	10	11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD2) Source ID: BB05159-01									
Nitrate-Nitrite, as N			103	90-110	0.881	10	11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD3) Source ID: EP00511-01									
Nitrate-Nitrite, as N			106	90-110	2.59	10	11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD4) Source ID: BB05160-02									
Nitrate-Nitrite, as N			97.4	90-110	2.35	10	11/06/2025	LRF	
Matrix Spike Dup (B253630-MSD5) Source ID: WB04071-06									
Nitrate-Nitrite, as N			105	90-110	0.440	10	11/06/2025	LRF	
Batch: B253762									
Blank (B253762-BLK1)									
Chloride	<0.02	mg/L					11/19/2025	RHC	U
LCS (B253762-BS1)									
Chloride			98.2	90-110			11/19/2025	RHC	
Duplicate (B253762-DUP1) Source ID: AC00450-01									
Chloride					0.432	10	11/20/2025	RHC	
Matrix Spike (B253762-MS1) Source ID: AC00450-01									
Chloride			99.1	90-110			11/20/2025	RHC	
Matrix Spike Dup (B253762-MSD1) Source ID: AC00450-01									
Chloride			98.0	90-110	0.830	10	11/20/2025	RHC	

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Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Report Date: 11/20/2025 15:16

Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Wet Chemistry									
Batch: B253501									
Blank (B253501-BLK1)									
Orthophosphate, as P	<0.003	mg/L					10/26/2025	EDM	U
LCS (B253501-BS1)									
Orthophosphate, as P			94.8	90-110			10/26/2025	EDM	
Duplicate (B253501-DUP1) Source ID: AC00451-01									
Orthophosphate, as P					0.208	10	10/26/2025	EDM	
Matrix Spike (B253501-MS1) Source ID: AC00451-01									
Orthophosphate, as P			98.9	90-110			10/26/2025	EDM	
Matrix Spike Dup (B253501-MSD1) Source ID: AC00451-01									
Orthophosphate, as P			104	90-110	1.34	10	10/26/2025	EDM	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals									
Batch: B253529									
Blank (B253529-BLK1)									
Mercury	<0.006	ug/L					10/29/2025	SAS	U
Blank (B253529-BLK2)									
Mercury	<0.006	ug/L					10/29/2025	SAS	U
LCS (B253529-BS1)									
Mercury			99.6	85-115			10/29/2025	SAS	
Duplicate (B253529-DUP1) Source ID: BB05138-01									
Mercury					NR	20	10/29/2025	SAS	U
Duplicate (B253529-DUP2) Source ID: AC00451-03									
Mercury					2.63	20	10/29/2025	SAS	J
Matrix Spike (B253529-MS1) Source ID: BB05138-01									
Mercury			101	70-130			10/29/2025	SAS	
Matrix Spike (B253529-MS2) Source ID: AC00451-03									
Mercury			99.3	70-130			10/29/2025	SAS	
Matrix Spike Dup (B253529-MSD1) Source ID: BB05138-01									
Mercury			101	70-130	0.317	20	10/29/2025	SAS	
Matrix Spike Dup (B253529-MSD2) Source ID: AC00451-03									
Mercury			99.0	70-130	0.320	20	10/29/2025	SAS	
Batch: B253546									
Blank (B253546-BLK1)									
Calcium	<0.05	mg/L					11/04/2025	SMC	U
Magnesium	<40	ug/L					11/04/2025	SMC	U
Phosphorus as P	<0.011	mg/L					11/04/2025	SMC	U
LCS (B253546-BS1)									
Calcium			97.7	85-115			11/04/2025	SMC	
Magnesium			97.7	85-115			11/04/2025	SMC	
Phosphorus as P			102	85-115			11/04/2025	SMC	
Duplicate (B253546-DUP1) Source ID: AC00451-02									
Calcium					0.335	20	11/04/2025	SMC	
Magnesium					1.08	20	11/04/2025	SMC	
Phosphorus as P					0.684	20	11/04/2025	SMC	
Duplicate (B253546-DUP2) Source ID: AC00452-01									
Calcium					0.0205	20	11/04/2025	SMC	
Magnesium					1.66	20	11/04/2025	SMC	
Phosphorus as P					0.149	20	11/04/2025	SMC	
Matrix Spike (B253546-MS1) Source ID: AC00451-02									
Calcium			96.8	70-130			11/04/2025	SMC	
Magnesium			97.4	70-130			11/04/2025	SMC	
Phosphorus as P			98.7	70-130			11/04/2025	SMC	
Matrix Spike (B253546-MS2) Source ID: AC00452-01									
Calcium			97.2	70-130			11/04/2025	SMC	
Magnesium			96.8	70-130			11/04/2025	SMC	
Phosphorus as P			106	70-130			11/04/2025	SMC	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals (Continued)									
Batch: B253546 (Continued)									
Matrix Spike Dup (B253546-MSD1) Source ID: AC00451-02									
Calcium			100	70-130	1.63	20	11/04/2025	SMC	
Magnesium			98.7	70-130	1.08	20	11/04/2025	SMC	
Phosphorus as P			103	70-130	1.66	20	11/04/2025	SMC	
Matrix Spike Dup (B253546-MSD2) Source ID: AC00452-01									
Calcium			99.7	70-130	1.39	20	11/04/2025	SMC	
Magnesium			97.9	70-130	1.01	20	11/04/2025	SMC	
Phosphorus as P			107	70-130	0.991	20	11/04/2025	SMC	
Batch: B253624									
Blank (B253624-BLK1)									
Arsenic	<0.050	ug/L					11/11/2025	DMW	U
Cadmium	<0.010	ug/L					11/11/2025	DMW	U
Lead	<0.010	ug/L					11/11/2025	DMW	U
LCS (B253624-BS1)									
Arsenic			98.4	85-115			11/11/2025	DMW	
Cadmium			102	85-115			11/11/2025	DMW	
Lead			104	85-115			11/11/2025	DMW	
Duplicate (B253624-DUP1) Source ID: AC00451-01									
Arsenic					1.90	20	11/11/2025	DMW	
Cadmium					4.85	20	11/11/2025	DMW	
Lead					1.98	20	11/11/2025	DMW	
Matrix Spike (B253624-MS1) Source ID: AC00451-01									
Arsenic			99.9	70-130			11/11/2025	DMW	
Cadmium			101	70-130			11/11/2025	DMW	
Lead			104	70-130			11/11/2025	DMW	
Matrix Spike Dup (B253624-MSD1) Source ID: AC00451-01									
Arsenic			100	70-130	0.508	20	11/11/2025	DMW	
Cadmium			102	70-130	0.702	20	11/11/2025	DMW	
Lead			105	70-130	1.38	20	11/11/2025	DMW	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Metals									
Batch: B253623									
Blank (B253623-BLK1)									
Cadmium	<0.010	ug/L					11/10/2025	DMW	U
Copper	<0.14	ug/L					11/10/2025	DMW	U
Lead	<0.0050	ug/L					11/10/2025	DMW	U
Zinc	<0.50	ug/L					11/10/2025	DMW	U
LCS (B253623-BS1)									
Cadmium			98.3	85-115			11/10/2025	DMW	
Copper			98.2	85-115			11/10/2025	DMW	
Lead			101	85-115			11/10/2025	DMW	
Zinc			103	85-115			11/10/2025	DMW	
Duplicate (B253623-DUP1) Source ID: AC00451-03									
Cadmium					22.1	10	11/10/2025	DMW	QC-02
Copper					0.724	10	11/10/2025	DMW	
Lead					0.633	10	11/10/2025	DMW	
Zinc					0.164	10	11/10/2025	DMW	
Matrix Spike (B253623-MS1) Source ID: AC00451-03									
Cadmium			99.0	70-130			11/10/2025	DMW	
Copper			97.1	70-130			11/10/2025	DMW	
Lead			101	70-130			11/10/2025	DMW	
Zinc			102	70-130			11/10/2025	DMW	
Matrix Spike Dup (B253623-MSD1) Source ID: AC00451-03									
Cadmium			95.9	70-130	3.17	10	11/10/2025	DMW	
Copper			95.5	70-130	1.17	10	11/10/2025	DMW	
Lead			98.2	70-130	2.48	10	11/10/2025	DMW	
Zinc			99.5	70-130	0.952	10	11/10/2025	DMW	

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Notes and Definitions

Item	Definition
D	Data reported from a dilution
J	Estimated value
QC-02	The RPD is greater than the method acceptance criteria. At least one of the values used to calculate the RPD, is less than or equal to the PQL.
Seed-01	The seed depletion is greater than that recommended by the method. The LCS is acceptable showing the seed supports the method.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristen Jolliffe
Steven Turner

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
AC00450-01	10/25/25	10/25/25	1135	1505	251025-206-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	2

Relinquished by (sign)	Date & Time Transferred	Received by (sign)	Comments/ Special Instructions
Kristen Jolliffe	10/25/25 1943	A Orrison 10/26/25 0708	AC00450

OC_WQL-PI

251006 ST

~1L BH 2062 -0.8C TEMP @ rept
BH 1012 [illegible] AC00450

NPDES Phase I Storm Event Report
December 4, 2025

Prepared by

Ada County Highway District

January 7, 2025

Section 1: Introduction

The Environmental Protection Agency Region 10 reissued a Municipal Separate Storm Sewer System Phase I National Pollutant Discharge Elimination System Permit (NPDES Permit), effective October 1, 2021, to Ada County Highway District (ACHD), Boise City, Ada County Drainage District No. 3, Idaho Transportation Department District 3, Boise State University, and Garden City. Under the NPDES Permit, Permittees are required to continue to conduct wet weather stormwater outfall monitoring and subwatershed monitoring. Four outfall monitoring sites (Lucky, Whitewater, Main, and Americana) and one subwatershed monitoring site (AS_6) have been established. The AS_6 site represents a subwatershed located within the Americana watershed. At each site, a minimum of three composite and three grab samples will be collected during Water Year (WY) 2026 (October 1, 2025, through September 30, 2026). The following storm event report summarizes stormwater sampling results from the December 4, 2025, storm event.

Section 2: Project Status

Table 2-1 is a summary of the sample types collected to date for WY 2026 Phase I Stormwater Outfall Monitoring. When samples are qualified, additional samples will be attempted from subsequent storms to collect unqualified samples.

Table 2-1. WY 2026 Samples Collected

Date	Lucky	Whitewater	Main	Americana	AS_6
October 25, 2025	--, C	--, C[1]	--, C	--, C	--, C
December 4, 2025	G[2], C	G[2], C	G[2], C	G[2,3], --	--, --
Unqualified Samples:	0G, 2C	0G, 1C	0G, 2C	0G, 1C	0G, 1C
Samples Remaining:	3G, 1C	3G, 2C	3G, 1C	3G, 2C	3G, 2C

Notes:

-- = no samples taken.

C = composite sample.

G = grab sample.

[1] Composite sample qualified due to lack of representativeness (50%–75%).

[2] E. coli sample qualified due to exceeded hold time (>8 and <16 hours).

[3] E. coli and field parameter samples rejected due to insufficient rainfall at the time of sample collection.

Section 3: Storm Event Summary

The December 4, 2025, storm event and the subsequent preparation and sampling efforts are detailed in the following sections.

3.1 Storm Detail

A summary of the forecast on which monitoring decisions were based is detailed below. The sampling event communication form that describes the forecast and summarizes the decision-making process from December 4, 2025, is included in Attachment A for reference.

Thursday, December 4, 2025 (Sampling Event Communication & Set up)

- On the morning of December 4, the National Weather Service issued a forecast for widespread rain beginning on December 4 at 1700 until 0400 on December 5. The chance of precipitation was 90% with an 65% chance of rain totals exceeding 0.10" over a 12-hour period. The forecasted precipitation for this event was 0.16 inches of rain.
- Monitoring station setup was accomplished throughout the day of December 4. An expected precipitation depth of 0.11 inches was used to set trigger volumes at monitoring stations. A runoff calculations worksheet showing how the trigger volumes were calculated is included in Attachment A.

Thursday, December 4, 2025 (Storm Event)

- The runoff started on December 4 at approximately 1750 and ended on December 5 at approximately 0933.
- Precipitation totals ranged between 0.24 and 0.30 inches at local rain gauges.

Flow measurements and precipitation data are listed in Table 1 along with a sampling summary. Hydrographs for the Lucky, Whitewater, and Main sites showing flow, rain, and sample collection data are included in Attachment B. A hyetograph for Americana presenting rain and sample collection data is also included in Attachment B.

3.2 Sampling Summary

The Lucky, Whitewater, Main, and Americana monitoring stations were set up on December 4, 2025, to collect flow-proportional composite samples during the storm. Sampler enable conditions were programmed into the Lucky, Whitewater, Main, and Americana flowmeters. Setup and sampling information are included in Table 1. The field forms completed during setup/shutdown and sampling are included in Attachment C.

Grab Samples

Two, two-member teams mobilized to collect stormwater grab samples and verify operation of the automatic sampling equipment on December 4 at approximately 2025. Grab samples were collected at the Lucky, Whitewater, Main, and Americana monitoring stations and submitted to the Boise City Public Works Water Quality Laboratory (WQL) on December 4 at 2310. Results for grab samples, including field parameter and analytical data, are included in Table 2. Laboratory analytical reports are included in Attachment D.

Composite Samples

Composite samples were collected at the Lucky, Whitewater, and Main monitoring stations and submitted to the WQL at 0844 on December 5. Analytical results are shown in Table 2, and pollutant loading estimates for the event are detailed in Table 3. Laboratory analytical reports are included in Attachment D.

Section 4: Quality Assurance/Quality Control

A summary of quality control samples collected during the December 4, 2025, storm event is presented below in Table 4-1. A field blank and a field duplicate were collected from the Main monitoring station. The analytical results for these samples are included in Table 4.

Table 4-1. Quality Control Samples

Sample ID	Sample Type	Parent Sample	Conclusions
251204-12-001	Field blank	251204-12-WG	No *E. coli* detected in the field blank.
251204-12-101	Field duplicate	251204-12-WG	Relative percent difference was within the acceptable range.

E. coli sample results are qualified due to exceeded hold time if the sample is prepared 8 to 16 hours after sample collection. The Lucky, Whitewater, Main, and Americana grab samples were prepared approximately 10.5 hours after sample collection. Therefore, the *E. coli* results are qualified. The Americana *E. coli* and field parameter grab samples are rejected due to a lack of rainfall at the time of collection.

An acceptable composite sample represents at least 75 percent of the total discharge or at least 6 hours of the storm duration. The Lucky, Whitewater, and Main composite samples met the representativeness criteria.

Data quality objectives for this storm were evaluated and tracked using the data validation review checklist included in Attachment A.

Section 5: Notes and Recommendations

Americana

The flowmeter was programmed to collect flow-weighted composite samples by ACHD staff on December 4, 2025. After rain began on December 4, ACHD staff remotely connected to the site and discovered the flowmeter was recording incorrect, and often negative, level readings. Therefore, no subsamples were collected at Americana.

ACHD consulted with ISCO technical support who reviewed the flowmeter data and recommended replacing the area velocity sensor. After sensor replacement, the flowmeter has recorded level data consistent with what is historically typical for the site.

AS_6

The AS_6 monitoring station was not targeted for this storm event. From November 14 through December 16, 2025, AS_6 was temporarily uninstalled to accommodate road improvements.

Data Tables

Table 1. Sampling and Flow Summary					
	Lucky	Whitewater	Main	Americana	AS_6
Grab samples collected and submitted?	YES	YES	YES	YES	NO
Composite samples collected and submitted?	YES	YES	YES	NO	NO
Trigger volume	2895 gal	801 cf	456 cf	2960 cf	--
Sampler enable condition (in) or Velocity cutoff (fps)	Level > 2.18	Level > 1.66	Level > 2.2	Level >6.8	--
Deadband/ Hysteresis (in)	1.0"	1.0"	1.0"	1.0"	--
Runoff start time	1820[1]	1758[1]	1750[1]	--	--
Grab sample collection time	2047	2135	2038	2123	--
Composite sample stop time	0543	0651	0409	--	--
Runoff stop time	0836[2]	0933[2]	0734[2]	--	--
Volume of discharge sampled (ft^3)	5,621	21,650	7,312	--	--
Total runoff volume (ft^3)	6,437	23,453	8,141	--	--
Percent of storm flow sampled (%)	87%	92%	90%	--	--
Composite sample duration (hrs)	10	11	9.5	--	--
Storm Precipitation (in)	0.24	0.28	0.26	0.26/0.30	0.26/0.30
Referenced Rain Gauge	Cynthia Mann	Whitewater	Front	Front/East	Front/East
Sampler messages (counts): Success	15	29	17	--	--
Number of composite bottles filled	1	2	1	--	--
Composite sample volume (Approx.; mL)	7,250 mL	15,250 mL	8,750 mL	--	--

Notes:

– = No data.

[1] *Storm runoff started on 12/4/2025*

[2] *Storm runoff ended on 12/5/2025*

Table 2. Field and Analytical Data Summary

Monitoring Station	Sample Date	Sample ID Grab	Field Parameters				Analytical Parameters																						
			Dissolved Oxygen	pH	Conductivity	Temperature	E. coli	Sample ID Composite	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
			mg/L	S.U.	uS/cm	C	MPN/100 mL		mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Lucky	12/4/2025	151204-03-WG	8.733	7.510	122.7	9.489	193.5[2]	151204-03-WC	24.4	86.0	3.29	22.0	15.7	9.33	69.5	0.569	0.419	0.268	0.206	1.29	1.1	0.011	0.023	3.5	0.14	0.46	<0.006	23.2
Whitewater	12/4/2025	151204-11-WG	7.864	7.529	447.3	9.846	83.9[2]	151204-11-WC	31.1	119	25.1	63.0	32.9	19.7	153	0.820	0.638	0.206	0.480	1.67	2.2	<0.010	0.046	3.7	0.34	2.4	0.00826	17.7
Main	12/4/2025	151204-12-WG	10.55	7.998	76.97	8.104	1203.3[2]	151204-12-WC	11.4	60.0	4.35	15.4	29.3	18.8	44.8	0.156	0.101	0.770	0.301	1.48	1.3	0.012	0.040	3.8	0.16	2.1	<0.006	29.4
Americana	12/4/2025	151204-14-WG	9.88[1R]	7.603[1R]	751.2[1R]	10.67[1R]	231.0[2,1R]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AS_6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

-- = No data.

[2] E. coli sample qualified due to exceeded hold time.

[1R] E. coli and field parameter samples rejected due to insufficient rainfall at the time of sample collection.

Table 3. Event Pollutant Loading Estimates in Pounds						
Monitoring Station	Event Date	TSS	Total Phosphorus	Ammonia as N	Nitrate + Nitrite as N	TKN
Lucky	12/4/2025	3.7	0.229	0.108	0.083	0.518
Whitewater	12/4/2025	28.8	1.200	0.302	0.703	2.444
Main	12/4/2025	9.6	0.079	0.391	0.153	0.752
Americana	12/4/2025	--	--	--	--	--
AS_6	12/4/2025	--	--	--	--	--

Notes:

-- = No data

Table 4. QC Sample Summary				
Date	Parent Sample	Sample ID	Type	E. coli
				mpn/100 mL
12/4/2025	251204-12-WG	251204-12-001	Field Blank	<1.0[2]
12/4/2025	251204-12-WG	251204-12-101	Field Duplicate	1046.2[2]
Calculated parent/duplicate RPD				2.0%
Allowable RPD				40%

Notes:

[2] *E. coli sample qualified due to exceeded hold time.*

Attachment A: Supplemental Documents

Sampling Event Communication Form

Data Validation Checklist

Runoff Calculation Worksheet

SAMPLING EVENT COMMUNICATION FORM

Date: 12/4/2025	Time: 8:02 PM	Initials: ST
Is there a targeted sampling event during the next 36 hours? (Or, if it is Friday, is a targeted event expected before 5:00 PM Monday?) Or, if it is Friday,		Yes

Past 72 hr Precip	
Date and time of expected event	12/4 5:00pm – 12/5 4:00am
Expected amount of precipitation	0.16"
Percent chance of precipitation	90%
Percent chance of >0.10" over 12 hours	65% from 5:00pm – 5:00am

NWS Update

Spoke with Jackson at NWS. The first of two widespread rain systems will arrive from the NNW around 5:00pm this evening and continue until 12:00am. We can expect 0.16" through 5:00am tomorrow with a 65% chance of exceeding 0.1", while most of the precip falls before 12:00am. There will be some light showers after midnight but not a distinctive break in the rain. Rain shadowing is not expected. The second system will arrive during the day on Friday, but it is likely we'll exceed 0.1" tonight into tomorrow, so we'll target the first wave.

Targeted Station & Samples

Lucky	Whitewater	Main	Americana	AS_6	State (Phase II)
☒ Grab	☒ Grab	☒ Grab	☒ Grab	☐ Grab	☐ Grab
☒ Composite	☒ Composite	☒ Composite	☒ Composite	☐ Composite	☐ Composite

Type of Forecasted Precipitation

☐ Light Rain	☒ Rain	☐ Rain on Snow
☐ Scattered Showers	☐ Thunder Showers	☐ Snowmelt
☐ Other:		

Reasons for Not Targeting a Forecasted Storm and/or Stations

☐ Holiday:
☐ Waiting on Antecedent Dry Period:
☐ Equipment Concerns:
☒ Other: **AS_6 equipment has been removed for road work on W Resseguie St.**

Text Forecast

NWS Forecast for: 2 Miles NNW Garden City ID
Issued by: National Weather Service Boise, ID
Last Update: 2:04 pm MST Dec 3, 2025

Today: A 50 percent chance of rain after 2pm. Mostly cloudy, with a high near 43. Calm wind.
Tonight: Rain, mainly before 11pm. Low around 34. Calm wind. **Chance of precipitation is 90%. New precipitation amounts between a tenth and quarter of an inch possible.**
Friday: Rain. High near 46. Light and variable wind. **Chance of precipitation is 100%. New precipitation amounts between a quarter and half of an inch possible.**
Friday Night: Rain, mainly before 11pm. Low around 39. Southeast wind around 5 mph becoming light and variable. **Chance of precipitation is 80%.**
Saturday: A 30 percent chance of rain, mainly before 11am. Mostly cloudy, with a high near 50. West northwest wind around 6 mph.

Saturday Night: A 20 percent chance of rain. Patchy fog after 5am. Otherwise, mostly cloudy, with a low around 33.
Sunday: A 30 percent chance of rain. Patchy fog before 8am. Otherwise, mostly cloudy, with a high near 49.
Sunday Night: A 40 percent chance of rain. Mostly cloudy, with a low around 37.
Monday: A 20 percent chance of rain before 11am. Patchy fog before 11am. Otherwise, partly sunny, with a high near 52.
Monday Night: A 30 percent chance of rain, mainly after 11pm. Mostly cloudy, with a low around 40.
Tuesday: A 40 percent chance of rain. Mostly cloudy, with a high near 55.
Tuesday Night: A 40 percent chance of rain. Mostly cloudy, with a low around 43.
Wednesday: A 40 percent chance of rain. Mostly cloudy, with a high near 59.

Forecast Discussion

Area Forecast Discussion
National Weather Service Boise ID
346 AM MST Thu Dec 4 2025

.SHORT TERM...Today through Saturday night...Light precipitation will overspread the region this afternoon and evening as a plume of deep moisture arrives in the northwest flow. Sheltered valleys in northern Malheur and Baker counties could see a brief period of light snow or rain/snow mix, but given the afternoon arrival expect any impact to be minimal as temperatures will be above freezing in most spots. In SW Idaho any early snowfall would be limited to the lower Snake Plain this afternoon and upper Weiser basin through early tonight. Similar to SE Oregon any minor accumulation would be limited to colder surfaces. **This first round of precipitation will bring 1 to 3 inches of snow above 4kft through Friday morning with liquid amounts of up to 0.15" in the valleys.**

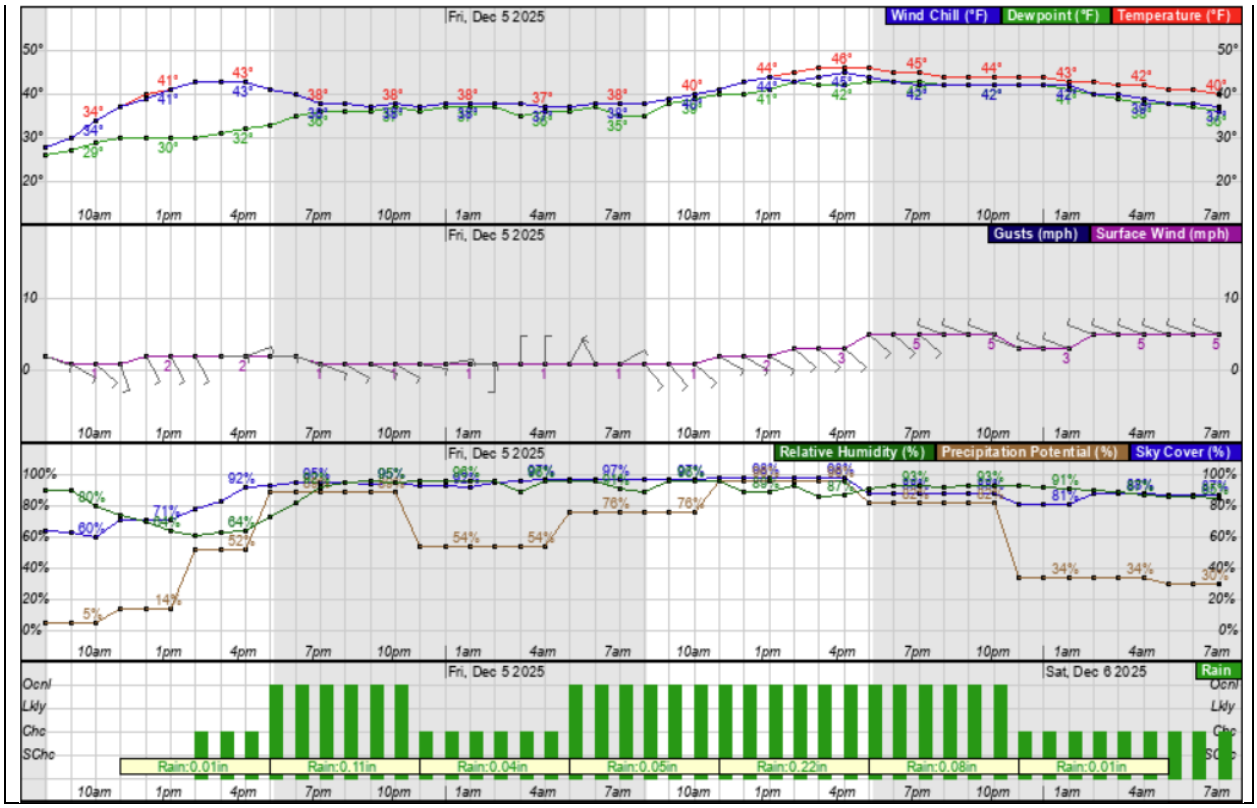
Friday will see a period of moderate to locally heavy precipitation develop late morning-early afternoon. In the mountains this will translate to snowfall rates of 0.5-1"/hour, bringing 4-8" of additional snow to elevations above 6kft MSL. While the heavier precipitation intensity will likely keep mountain valleys in the snow through Friday afternoon, accumulation will be fighting warmer air (temps in AOA freezing by mid afternoon). The rain/snow elevation line continues to be tricky. By Friday evening as the precipitation lessens expect a broad range in snowfall totals across mtn valleys between 4-5kft MSL. Most mtn valley sites below 5kft MSL see totals (today through Friday) of less than 2 inches, while areas from McCall, New Meadows and Warm Lake to Yellow Pine are looking at 3 to 6 inches. Ensemble probabilities continue to show the tight snowfall gradient in the Long Valley. The NBM5 puts a 60% chance of 4+ inches at McCall with less than a 5% chance at Cascade (HREF shows a similar gradient but is more bullish with 90% chance at McCall). For now will be holding off on any hazard highlights as heavier snow looks localized in mtn valleys, and impacts to road surfaces could be brief given the warming temperatures on Friday. Sites above 6kft (7kft in the Steens and Owyhees) will see 6-12 inches of wet snow through Friday evening. **Total liquid (liquid equivalent for the mtns) will see ranges of 0.2-0.5" in the valleys** to 0.5-1" in the mountains with locally higher amounts (up to 1.5") along N/W aspects.

Periods of light precipitation will continue through Saturday as the region remains locked under northwest flow. The focus of precipitation will be in the mtns (60-80% chance) with lower elevations seeing some drying as precipitation chances drop below 30%. Snow levels will drop to 4500-5500 feet on Saturday and mountains will pick up an additional 1 to 3 inches. Northwest winds will become breezy Friday night into Saturday across SE Oregon and higher terrain of SW Idaho (to include the western Magic Valley) with gusts of 30 to 40 mph. Friday and Saturday are mild with temperatures 5-10 degrees above normal.

.LONG TERM...Sunday through Thursday...High confidence that an active pattern will continue over the extended. A strong upper level jet will ride over an upper level ridge and into the Pacific Northwest. Pacific moisture and shortwave disturbances will bring periodic rain and mountain snow. **Our area will be on the edge of the storm track for much of the period, and a strong temperature gradient will exist over the area. This increases uncertainty in precipitation amounts and temperatures.** However, overall the pattern strongly leans mild and wet with temperatures well above normal and periodic chances of precipitation.

A disturbance on Sunday will bring a 20-50% chance of valley rain and a 50-80% chance of mountain rain and snow. Snow levels will be around 4000-6000 feet, lowest in the morning across the north. Precipitation amounts should be light to moderate. Precipitation chances will dip briefly on Monday before increasing once again Tuesday and Wednesday as an atmospheric river moves into the Pacific Northwest. Our area will be on the southern edge of the moisture, resulting in some uncertainty in precipitation amounts. However, moderate to heavy precipitation totals are possible especially in the mountains, and the air mass is expected to be very mild with snow levels pushing up to 6500-8000 feet. By Wednesday, high temperatures are forecast to reach 15-20 degrees above normal. Strong westerly flow will also bring breezy to windy conditions. Forecast confidence is lower on Thursday, but strong, moist westerly flow will persist across the Pacific Northwest, with the potential for additional systems to bring more rain and snow Thursday and beyond.

Hourly Forecast


Fri, Dec 5 2025
Wind Chill (°F)
Dewpoint (°F)
Temperature (°F)
Gusts (mph)
Surface Wind (mph)
Relative Humidity (%)
Precipitation Potential (%)
Sky Cover (%)
Sat, Dec 6 2025
Rain
Ocnl
Lkly
Chc
SChc
Rain:0.01in
Rain:0.11in
Rain:0.04in
Rain:0.05in
Rain:0.22in
Rain:0.08in
Rain:0.01in
10am
1pm
4pm
7pm
10pm
1am
4am
7am

Storm Event QA/QC Checklist – Phase I

STORM DATE: 12/04/2025

A. Event and Data Completeness	Yes	No	N/A	Notes
1. Field data sheets filled out completely and clearly	X			
2. Field parameters reviewed, and any problems/issues addressed	X			
3. All samples collected as specified	X			
4. All samples delivered to lab promptly (review chain of custody rpts)	X			
5. Inconsistencies/clarifications discussed with sampling team member			X	
6. All analytical reports from lab received	X			

B. Validation and Verification Methods	Yes	No	N/A	Notes
1. Outliers and unexpected values discussed with lab			X	
2. Appropriate analytical methods used	X			
3. All lab QA samples were within method acceptance criteria	X			
4. All samples reviewed and data qualifiers assigned if needed	KJ			
5. Data quality objective achieved	X			

C. Specific Storm and Sample QA/QC Criteria	Lucky	Whitewater	Main	Americana	AS_6	Program Criteria	Met	Qualify	Reject
1. Antecedent dry period (inches in previous 72-hours)	0.00"	0.00"	0.00"	0.00"	0.00"	< 0.11" in 72 hrs	X		
2. Precipitation (inches)	0.24"	0.28"	0.26"	0.26"/ 0.30"	0.26"/ 0.30"	> 0.10"	X		
3. Sampled amount (% of total run-off)	87%	92%	90%	-	-	>= 75% or >= 6 hrs: no qualifier >= 50% and <75%: qualify < 50%: reject	X		
4. Composite sample duration (hours)	10	11	9.5	-	-				
4. Ecoli sample holding time (hours)	10.5	10	10.5	10	-	<=8 hrs: no qualifier >8 and <=16 hrs.: qualify >16 hrs.: reject		X	X Americana
5. Filtering of samples for dissolved parameter analysis (hours)	4	2	5.5	-	-	<= 24 hrs: no qualifier > 24 hrs.: reject	X		

D. Notes

E. coli samples qualified due to exceeded holding time from all targeted sites.
Americana – No composite bottles were submitted to WQL. AV sensor malfunction caused negative level values and 0 subsamples to be taken. Grab sample rejected due to lack of rainfall at the time of sample collection.
AS_6 – No samples were collected because the storm drain pipe was being replaced. All monitoring equipment was removed during construction.

Reviewed by: Steven Turner Digitally signed by Steven Turner Date: 2026.01.29 16:27:10 -07'00'

Approved by: Monica I. Lowe Digitally signed by Monica I. Lowe Date: 2026.01.30 09:04:47 -07'00'

Storm Runoff Estimates and Trigger Volumes

Step 1. Enter runoff coefficients in yellow cells.
Step 2. Enter expected precipitation depth (in) in blue cell.
Step 3. Read trigger volumes (**bold**) in green cells.

Expected Precipitation Depth = 0.11
Aliquots per Sample = 17

Site	Area (ac)	Using RC calculated from flow data		
		RC	Expected Vol (ft^3)	Trigger Vol (ft^3)
Lucky	105	0.157	6582.5	**387**
Whitewater	498	0.069	13621.3	**801**
Main	79	0.246	7760.0	**456**
Main Alt	60	0.200	4791.6	**282**
Americana	875	0.144	50311.8	**2960**
Americana Alt	869	0.144	49966.8	**2939**
AS_6	204	0.046	3747.0	**220**
State	34	0.127	1724.2	**101**

Notes:

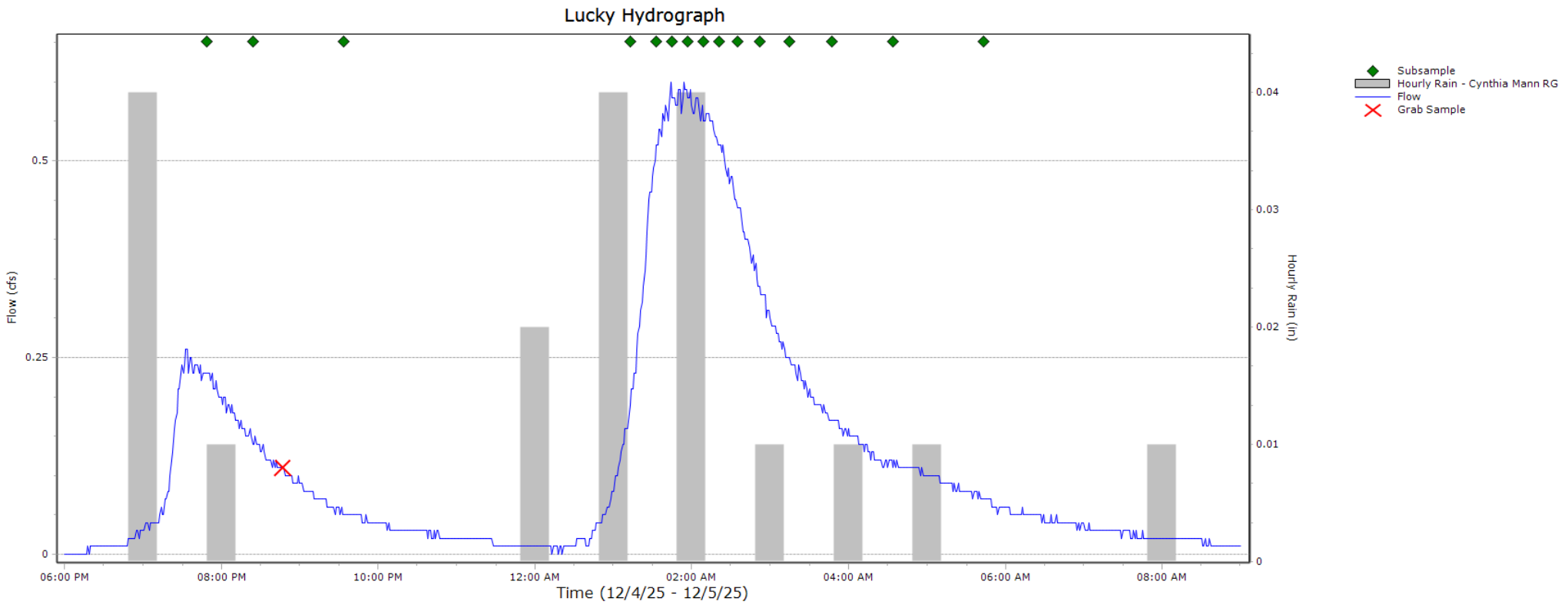
Calculated RC = runoff volume (ft^3) / [precip (ft) x area (ft^2)]

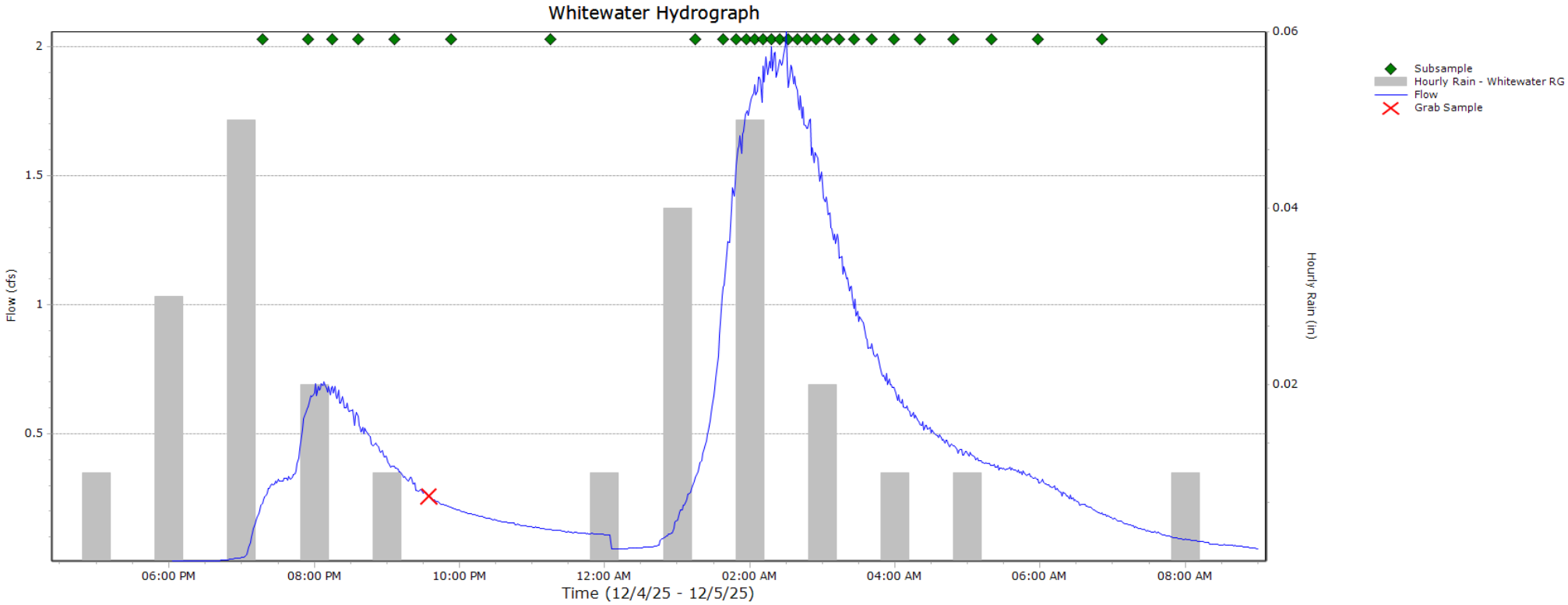
Where volume (ft^3) is the measured discharge, precip (ft) is the measured amount from local rain guage, and area (ft^2) is the watershed area.

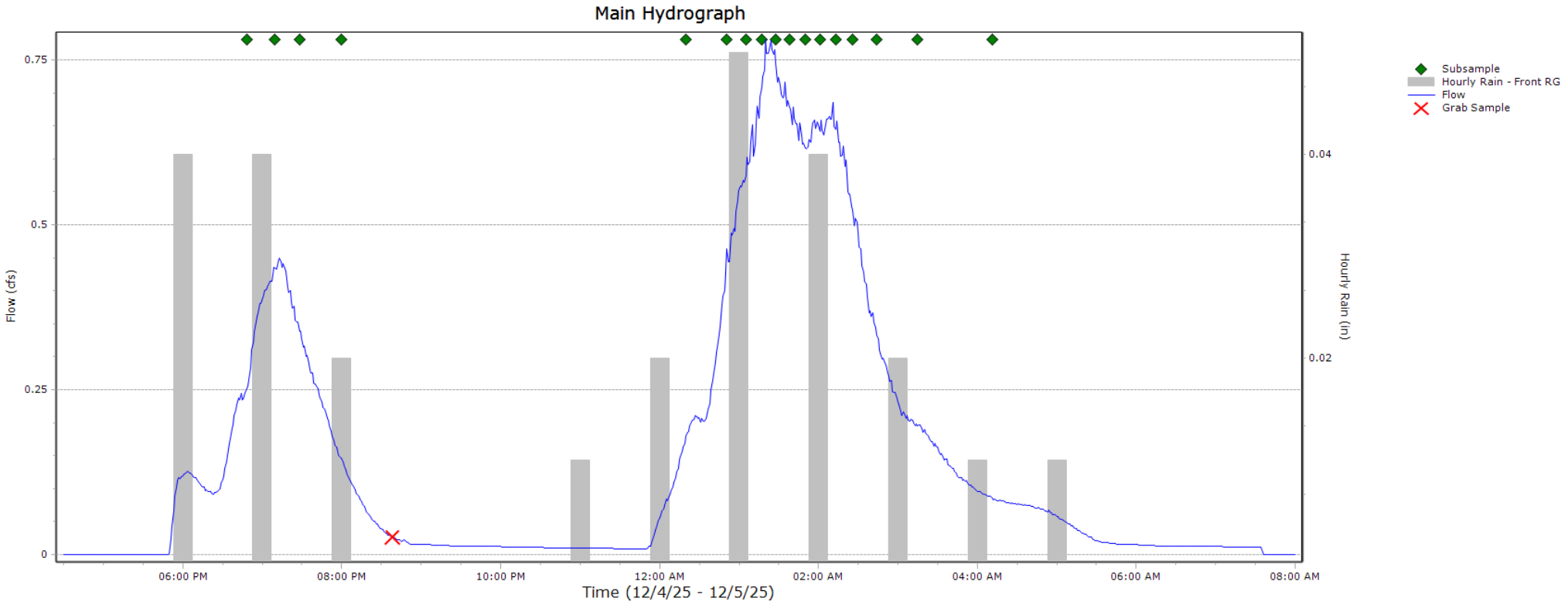
Expected volume (ft^3) = RC x expected precip (ft) x area (ft^2)

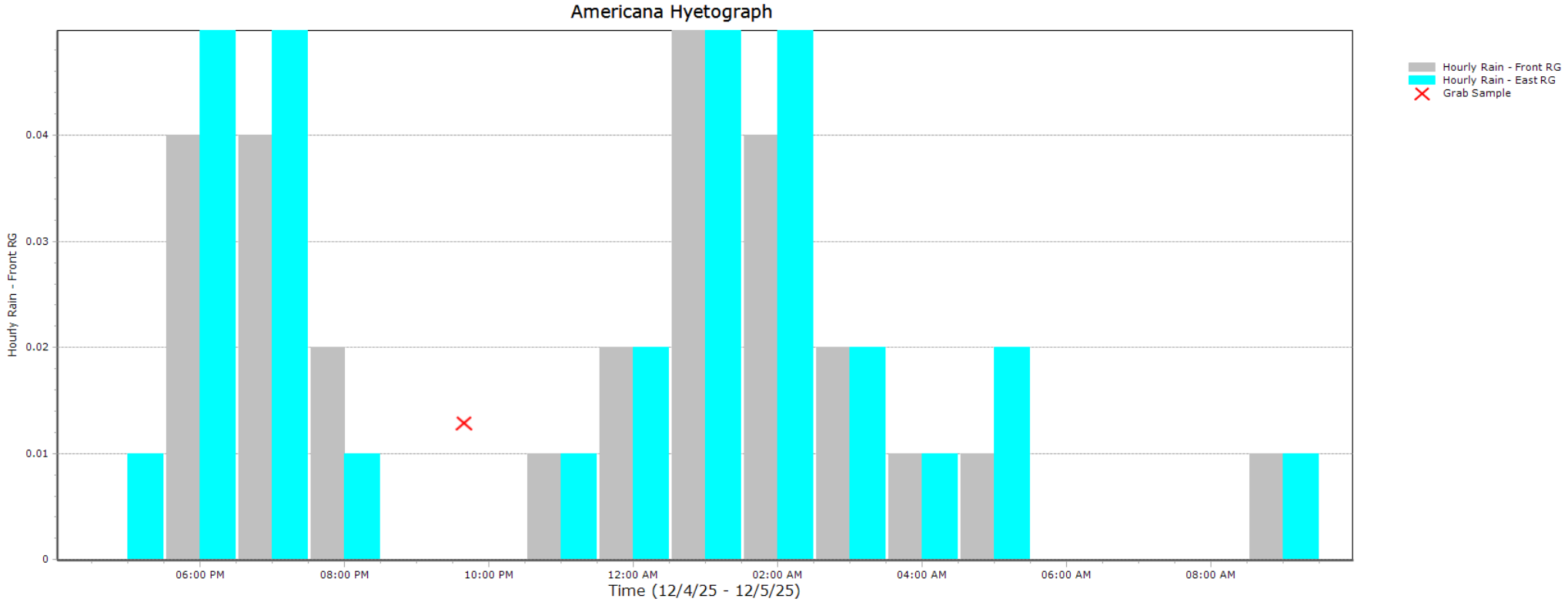
Updated 250213 KJ

Attachment B: Storm Event Hydrographs


Lucky Hydrograph
Subsample
Hourly Rain - Cynthia Mann RG
Flow
Grab Sample
Flow (cfs)
0
0.25
0.5
Hourly Rain (in)
0
0.01
0.02
0.03
0.04
06:00 PM
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
08:00 AM
Time (12/4/25 - 12/5/25)


Whitewater Hydrograph
Flow (cfs)
Hourly Rain (in)
2
1.5
1
0.5
0.06
0.04
0.02
06:00 PM
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
08:00 AM
Time (12/4/25 - 12/5/25)
Subsample
Hourly Rain - Whitewater RG
Flow
Grab Sample


Main Hydrograph
Subsample
Hourly Rain - Front RG
Flow
Grab Sample
Flow (cfs)
Hourly Rain (in)
0.75
0.5
0.25
0
0.04
0.02
06:00 PM
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
08:00 AM
Time (12/4/25 - 12/5/25)


Americana Hyetograph
Hourly Rain - Front RG
Hourly Rain - East RG
Grab Sample
0.04
0.03
0.02
0.01
0
Hourly Rain - Front RG
06:00 PM
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
08:00 AM
Time (12/4/25 - 12/5/25)

Attachment C: Field Forms

Grab Sample Data Form

STATION: Lucky

Personnel: CL, ST **Date/Time On-Site:** 12/4/25 20:30

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
20:33	3.24	0.13	0.47	12.91

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	251204-03 -WG	12-4-25	20:47	☒
Field Duplicate *E.Coli**	251204-03 -101	12-4-25	20:51	☑
Field Blank *E.Coli**	251204-03 -001	12-4-25	20:54	☑

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP14	20:58	9.489	8.733	7.510	122.7

Sampler Current Status		
First Subsample Date/Time	12-4-25	19:49
Last Subsample Date/Time	12-4-25	20:24
# of Subsamples taken	2	

Comments:

Alternate site QC samples discarded due to successful collection of samples at primary QC site (Main).

Date/Time Off-Site: 12/4/25 21:06

Grab Sample Data Form

STATION: Whitewater

Personnel: CL, ST **Date/Time On-Site:** 12-4-25 21:21

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
21:23	2.16	0.31	1.14	-

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	251204-11 -WG	12-4-25	21:35	☑
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP14	21:37	9.846	7.864	7.529	447.3

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	

Comments:

Date/Time Off-Site: 12-4-25 21:40

Grab Sample Data Form

STATION: Main

Personnel: KJ, RR **Date/Time On-Site:** 12/4/25 2025

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
2025	2.590	0.05	0.23	11.53

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	251204-12-WG	12/4/25	2038	☑
Field Duplicate *E.Coli**	251204-12-101	12/4/25	2042	☑
Field Blank *E.Coli**	251204-12001	12/4/25	2045	☑

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP13	2046	8.104	10.55	7.998	76.97

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	4

Comments:

Date/Time Off-Site: _____

Grab Sample Data Form

STATION: Americana

Personnel: ~~RC Sol~~ KS/RR **Date/Time On-Site:** ~~12/4/25~~ 12/4/25 2120

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
2120	1.452	0.034	0.234	11.82

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	251204-14 -WG	12/4/25	2123	☑
Field Duplicate *E.Coli**	~~251204-14~~ -101	~~12/4~~		☐
Field Blank *E.Coli**	~~251204-14~~ -001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP13	2124	10.67	9.880	7.603	751.2

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	

Comments:

Date/Time Off-Site: 2130

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: Lucky

SET UP

Personnel: KS, ST

Date/Time On-Site: 12/4/25 1320

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1329	1.18	1.14	0.04	12.8

Enable Condition or Velocity Cutoff:	2.18"
Deadband:	1"
Trigger Volume:	2895 gal

- [x] Check desiccant on flowmeter and sampler
- [x] Install batteries on flowmeter and sampler
- [x] Perform decon. cycle
- [x] Install 15L sample bottle, with ice
- [x] Leave bottle lid at site, in a clean re-sealable plastic bag
- [x] Verify all cable and tubing connections
- [x] Check date and time on flowmeter and sampler
- [x] Set flowmeter program and sampler program parameters
- [x] Set logging interval to 1 minute
- [x] Start flowmeter program and sampler program
- [x] Verify running

Comments:

Date/Time Off-Site: 12/4/25 1340

SHUT DOWN

Personnel: ST

Date/Time On-Site: 12/8/25 10:07

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
10:13	1.09	0.00	0.00	12.3
Downloaded to:		Stevens USB		

If flow monitoring is complete:	**If continuing to monitor flow:**
[x] Halt program on flowmeter	☐ Replace flowmeter battery
[x] Download flowmeter data	☐ Reset logging interval to 15 minutes
[x] Remove flowmeter battery	☐ Change velocity cutoff to 0.02 fps
	☐ Start program
	☐ Verify running

Comments:

Date/Time Off-Site: 12/8/25 10:20

STATION: Lucky
Personnel: ST. KJ ~~0332~~

Bottle 1 **of** 1
Date/Time On-Site: 12/5/25 0322 / 0807

☒ Halt sampler program			
☒ Put lid on sample bottle; label sample bottle			
Sample ID:	251204-03	-WC	
Approx Sample Volume (mL):	7250 mL		
Clarity (ex. Clear, Cloudy, Silty):	Silty		
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown		
QA/QC Sample ID:		-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	12/4/25 1949	Success	13	12/5/25 0347	Success
2	2024		14	0434	
3	2134		15	0543	
4	12/5/25 0113		16		
5	0133		17		
6	0145		18		
7	0157		19		
8	0209		20		
9	0221		21		
10	0235		22		
11	0252		23		
12	0315		24		

Comments:

Date/Time Off-Site: 12/5/25 8:19

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter ☒ Keep flowmeter running ☒ Add ice to sample transport cooler	☐ Keep flowmeter running ☐ Install new 15L bottle, add ice ☐ Restart program from beginning **Date/Time Restarted:** _____ ☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Whitewater

SET UP

Personnel: KJ, ST

Date/Time On-Site: 12/4/25 1240

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
10:47	0.42	0.00	ST 0.4 0.13	–
Enable Condition:		1.66"		
Hysteresis:		1		
Flow Pulse Interval:		801cf		

On-Site
- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☐ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)
- ☒ Direct or Remote; Date/time 12/4/25 10:39
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments: Keep an ~~Eye on~~ eye on ST ~~flowmeter~~ Sampler battery.

Date/Time Off-Site: 12/4/25 12:57

SHUT DOWN

Personnel: ST

Date/Time On-Site: –

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
9:39	0.993	0.028	0.332	–
Downloaded to:		ST's laptop		

On-Site
- ☐ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)
- ☒ Direct or Remote; Date/time 12/5/25 9:40
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments: Shut down site remotely.

Date/Time Off-Site: –

STATION: Whitewater
Personnel: ST, KT

Bottle 1 **of** 2
Date/Time On-Site: 12/5/25 4:00

☒ Halt sampler program			
☒ Put lid on sample bottle; label sample bottle			
Sample ID:	251204-11	-WC	
Approx Sample Volume (mL):	12,500 mL		
Clarity (ex. Clear, Cloudy, Silty):	Silty		
Color (ex. Clear, Gray, Tan, Brown, Black):	Black		
QA/QC Sample ID:		-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	12/4/25 1917	Success	13	12/5/25 0212	Success
2	1955		14	0219	
3	2015		15	0226	
4	2037		16	0233	
5	2106		17	0240	
6	2154		18	0247	
7	2316		19	0255	
8	12/5/25 0116		20	0304	
9	0139		21	0315	
10	0149		22	0327	
11	0157		23	0344	
12	0205		24	0359	

Comments:

Date/Time Off-Site: 12/~~4~~5/25 4:13

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 12/5 408
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Whitewater **Bottle** 2 **of** 2

Personnel: ST, LCJ **Date/Time On-Site:** 12/5/25 7:49

☒ Halt sampler program	
☒ Put lid on sample bottle; label sample bottle	
Sample ID:	251204-11 -WC
Approx Sample Volume (mL):	2750 mL
Clarity (ex. Clear, Cloudy, Silty):	Clear ~~Cloudy~~ ST
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	12/5/25 04:22	Success	13		
2	04:49	↓	14		
3	05:21		15		
4	05:59		16		
5	06:51		17		
6			18		
7			19		
8			20		
9			21		
10			22		
11			23		
12			24		

Comments:

Date/Time Off-Site: 12/5/25 757

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Main

SET UP

Personnel: ST, KT

Date/Time On-Site: 12/4/25 12:10

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1218	1.204	0.00	0.60	~~12.9~~ 11.63
Enable Condition:	2.2"			
Hysteresis:	1"			
Flow Pulse Interval:	456 cf			

On-Site
- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)
- ☒ Direct or Remote; Date/time
- ☒ Retrieve data and review recent flow history NA
- ☒ Change Wireless Power Control to Storm Event NA
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments: Flowmeter
Keep an eye on battery level when arriving on site.

Date/Time Off-Site: 12/4/25 1233

SHUT DOWN

Personnel: ST

Date/Time On-Site: 12/8/25 12:43

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
12.44	1.276	0.03	0.43	11.15
Downloaded to:	ST USB.			

On-Site
- ☒ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)
- ☒ Direct or Remote; Date/time 12/8 12:45
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 12/8/25 12:47

STATION: Main
Personnel: ST, KJ

Bottle 1 **of** 1
Date/Time On-Site: 12/5/25 7:30

☑ Halt sampler program	
☒ Put lid on sample bottle; label sample bottle	
Sample ID:	251204 - 12 -WC
Approx Sample Volume (mL):	8750 mL
Clarity (ex. Clear, Cloudy, Silty):	Cloudy
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	12/4/25 1847	Success	13	12/5/25 0212	Success
2	1908		14	0224	
3	1926		15	0242	
4	1958		16	0313	
5	12/5/25 0018		17	0409	
6	0049		18		
7	0104		19		
8	0116		20		
9	0126		21		
10	0136		22		
11	0148		23		
12	0200		24		

Comments:

Date/Time Off-Site: 12/5/25 741

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Americana

SET UP

Personnel: KJ, ST

Date/Time On-Site: 12/4/25 1120

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
10:33	2.697	-0.072	-0.261	11.40

Enable Condition:	6.8"
Hysteresis:	1.0
Flow Pulse Interval:	2960 cf

On-Site

- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)

- ☒ Direct or Remote; Date/time 12/4/25 10:32
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☐ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☐ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 12/4/25 12:02

SHUT DOWN

Personnel: ST

Date/Time On-Site: 12/8/25 12:27

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1229	4.849	-0.049	-0.144	11.35
	Downloaded to:	ST Laptop		

On-Site

- ☒ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)

- ☒ Direct or Remote; Date/time 12/5/25 9:35
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments: Equipment malfunction caused ST ~~the~~ negative level values and 0 subsamples to be taken. No composite submitted to WQL

Date/Time Off-Site: 12/8/25 12:36

Attachment D: Storm Event Analytical Reports

Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00453-01	ACST1B	251204-03-WG	Water		12/4/25 20:47	12/5/25 6:36
AC00453-02	ACST1B	251204-11-WG	Water		12/4/25 21:35	12/5/25 6:36
AC00453-03	ACST1B	251204-12-WG	Water		12/4/25 20:38	12/5/25 6:36
AC00453-04	ACST1B	251204-12-101	Water		12/4/25 12:00	12/5/25 6:36
AC00453-05	ACST1B	251204-12-001	Water		12/4/25 12:00	12/5/25 6:36
AC00453-06	ACST1B	251204-14-WG	Water		12/4/25 21:23	12/5/25 6:36

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
No duplication of this report is allowed, except in its entirety

Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	251204-03-WG
Date/Time Collected:	12/04/2025 20:47		
Lab Number:	AC00453-01	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B253926	193.5	MPN/100 mL	1.0	1.0	IDEXX - Colilert	12/05/25 07:25	12/6/25 7:41	RHC	H
Wet Chemistry										
Chlorine Screen	B253960	Absent	mg/L			SM 4500-CL G-2000 mod	12/05/25	12/5/25 6:43	NTS	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	251204-11-WG
Date/Time Collected:	12/04/2025 21:35		
Lab Number:	AC00453-02	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B253926	83.9	MPN/100 mL	1.0	1.0	IDEXX - Colilert	12/05/25 07:25	12/6/25 7:41	RHC	H
Wet Chemistry										
Chlorine Screen	B253960	Absent	mg/L			SM 4500-CL G-2000 mod	12/05/25	12/5/25 6:43	NTS	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	251204-12-WG
Date/Time Collected:	12/04/2025 20:38		
Lab Number:	AC00453-03	Sample Collector:	K.J
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B253926	1203.3	MPN/100 mL	1.0	1.0	IDEXX - Colilert	12/05/25 07:25	12/6/25 7:41	RHC	H
Wet Chemistry										
Chlorine Screen	B253960	Absent	mg/L			SM 4500-CL G-2000 mod	12/05/25	12/5/25 6:49	NTS	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	251204-12-101
Date/Time Collected:	12/04/2025 12:00		
Lab Number:	AC00453-04	Sample Collector:	K.J
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B253926	1046.2	MPN/100 mL	1.0	1.0	IDEXX - Colilert	12/05/25 07:25	12/6/25 7:41	RHC	H
Wet Chemistry										
Chlorine Screen	B253960	Absent	mg/L			SM 4500-CL G-2000 mod	12/05/25	12/5/25 6:43	NTS	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
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Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	251204-12-001
Date/Time Collected:	12/04/2025 12:00		
Lab Number:	AC00453-05	Sample Collector:	K.J
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B253926	<1.0	MPN/100 mL	1.0	1.0	IDEXX - Colilert	12/05/25 07:25	12/6/25 7:41	RHC	H U
Wet Chemistry										
Chlorine Screen	B253960	Absent	mg/L			SM 4500-CL G-2000 mod	12/05/25	12/5/25 6:49	NTS	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
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Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	251204-14-WG
Date/Time Collected:	12/04/2025 21:23		
Lab Number:	AC00453-06	Sample Collector:	K.J
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B253926	231.0	MPN/100 mL	1.0	1.0	IDEXX - Colilert	12/05/25 07:25	12/6/25 7:41	RHC	H
Wet Chemistry										
Chlorine Screen	B253960	Absent	mg/L			SM 4500-CL G-2000 mod	12/05/25	12/5/25 6:49	NTS	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Microbiology									
Batch: B253926									
Blank (B253926-BLK1)									
E. Coli	Absent						12/06/2025	RHC	
LCS (B253926-BS1)									
E. Coli				Present			12/06/2025	RHC	
Duplicate (B253926-DUP1)	Source ID: AC00453-06								
E. Coli					Pass	128	12/06/2025	RHC	

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No duplication of this report is allowed, except in its entirety

Report Date: 12/09/2025 13:21

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Notes and Definitions

Item	Definition
H	Hold time Exceeded.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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No duplication of this report is allowed, except in its entirety

Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Steven Turner
Kristen Jolliffe
Ryan Rowe

AC00453

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD$_5$ - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
AC00453-01	12/4/25		2047		251204-03-WG	ST	X	X												X						1
-02	12/4/25		2135		251204-11-WG	ST	X	X												X						1
-03	12/4/25		2038		251204-12-WG	KJ, RR	X	X												X						1
-04	12/4/25		12:00		251204-12-101	KJ, RR	X	X												X						1
-05	12/4/25		12:00		251204-12-001	KJ, RR	X	X												X						1
-06	12/4/25		21:23		251204 14-WG	KJ, RR	X	X												X						1
	~~12/4/25~~																									

Relinquished by (sign)	Date &Time Transferred	Received by (sign)
Steven Turner	12/4/25 2310	12/5/25 0630

Comments/ Special Instructions

251006-S

AC00453

Report Date: 01/05/2026 13:54

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00454-01	ACST1C	251204-03-WC	Water		12/5/25 5:43	12/5/25 8:46
AC00454-02	ACST1C	251204-11-WC	Water		12/5/25 6:51	12/5/25 8:46
AC00454-03	ACST1C	251204-12-WC	Water		12/5/25 4:09	12/5/25 8:46

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
No duplication of this report is allowed, except in its entirety

Report Date: 01/05/2026 13:54

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1C	Location Description:	251204-03-WC
Date/Time Collected:	12/04/2025 19:49 - 12/05/2025 05:43		
Lab Number:	AC00454-01	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B254007	0.268	mg/L	0.0450	0.0450	Timberline Ammonia-001	12/12/25	12/12/25 11:54	RHC	
BOD5	B253937	24.4	mg/L	2.00	2.00	SM 5210 B-2016	12/06/25	12/11/25 10:22	A.T	
Chloride	B254022	3.29	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	12/15/25	12/15/25 16:47	ALN	
COD	B253933	86.0	mg/L	7.00	7.00	HH 8000, SM 5220D	12/05/25	12/5/25 12:59	NTS	
Nitrate-Nitrite, as N	B253999	0.206	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	12/11/25	12/11/25 11:49	JAL	
TKN	B254029	1.29	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	12/15/25	12/16/25 8:16	JAL	
Total Dissolved Solids	B253965	69.5	mg/L	25.0	25.0	SM 2540 C-2015	12/09/25	12/10/25 14:29	RHC	
Total Suspended Solids	B253925	9.33	mg/L	0.900	0.900	SM 2540 D-2015	12/05/25	12/5/25 12:30	MCB	
Turbidity	B253929	15.7	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	12/05/25	12/5/25 10:34	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B253930	0.419	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	12/05/25	12/5/25 13:38	ALM	M-06
Total Metals										
Mercury	B254061	<6.00E-3	ug/L	6.00E-3	6.00E-3	EPA 245.1	12/18/25	12/18/25 13:25	SAS	U
Arsenic	B254012	1.1	ug/L	0.050	0.050	EPA 200.8	12/14/25	12/18/25 14:39	DMW	
Cadmium	B254012	0.023	ug/L	0.010	0.010	EPA 200.8	12/14/25	12/18/25 14:39	DMW	
Calcium	B253985	6.88	mg/L	0.0500	0.0500	EPA 200.7	12/15/25	12/16/25 9:36	SMC	
Lead	B254012	0.46	ug/L	0.010	0.010	EPA 200.8	12/14/25	12/18/25 14:39	DMW	
Magnesium	B253985	1160	ug/L	40.0	40.0	EPA 200.7	12/15/25	12/16/25 9:36	SMC	
Phosphorus as P	B253985	0.569	mg/L	0.0110	0.0110	EPA 200.7	12/15/25	12/16/25 9:36	SMC	
Hardness	B253985	22.0	mg/L	0.125	0.125	SM 2340 B-2011	12/15/25	12/16/25 9:36	SMC	
Dissolved Metals										
Cadmium	B254081	0.011	ug/L	0.010	0.010	EPA 200.8	12/20/25	12/20/25 13:50	DMW	
Copper	B254000	3.5	ug/L	0.14	0.14	EPA 200.8	12/11/25	12/11/25 14:34	DMW	
Lead	B254000	0.14	ug/L	5.00E-3	5.00E-3	EPA 200.8	12/11/25	12/11/25 14:34	DMW	
Zinc	B254000	23.2	ug/L	0.50	0.50	EPA 200.8	12/11/25	12/11/25 14:34	DMW	

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Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
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Analysis Report

Location:	ACST1C	Location Description:	251204-11-WC
Date/Time Collected:	12/04/2025 19:17 - 12/05/2025 06:51		
Lab Number:	AC00454-02	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B254007	0.206	mg/L	0.0450	0.0450	Timberline Ammonia-001	12/12/25	12/12/25 10:05	RHC	
BOD5	B253937	31.1	mg/L	2.00	2.00	SM 5210 B-2016	12/06/25	12/11/25 10:11	A.T	
Chloride	B254022	25.1	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	12/15/25	12/15/25 18:27	ALN	
COD	B253933	119	mg/L	7.00	7.00	HH 8000, SM 5220D	12/05/25	12/5/25 13:20	NTS	
Nitrate-Nitrite, as N	B253999	0.480	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	12/11/25	12/11/25 11:50	JAL	
TKN	B254029	1.67	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	12/15/25	12/16/25 8:17	JAL	
Total Dissolved Solids	B253965	153	mg/L	25.0	25.0	SM 2540 C-2015	12/09/25	12/10/25 14:30	RHC	
Total Suspended Solids	B253925	19.7	mg/L	0.900	0.900	SM 2540 D-2015	12/05/25	12/5/25 12:32	MCB	
Turbidity	B253929	32.9	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	12/05/25	12/5/25 10:43	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B253930	0.638	mg/L	0.0150	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	12/05/25	12/5/25 13:55	ALM	D
Total Metals										
Mercury	B254061	8.26E-3	ug/L	6.00E-3	6.00E-3	EPA 245.1	12/18/25	12/18/25 13:39	SAS	J
Arsenic	B254012	2.2	ug/L	0.050	0.050	EPA 200.8	12/14/25	12/18/25 14:49	DMW	
Cadmium	B254012	0.046	ug/L	0.010	0.010	EPA 200.8	12/14/25	12/18/25 14:49	DMW	
Calcium	B253985	18.9	mg/L	0.0500	0.0500	EPA 200.7	12/15/25	12/16/25 9:42	SMC	
Lead	B254012	2.4	ug/L	0.010	0.010	EPA 200.8	12/14/25	12/18/25 14:49	DMW	
Magnesium	B253985	3800	ug/L	40.0	40.0	EPA 200.7	12/15/25	12/16/25 9:42	SMC	
Phosphorus as P	B253985	0.820	mg/L	0.0110	0.0110	EPA 200.7	12/15/25	12/16/25 9:42	SMC	
Hardness	B253985	63.0	mg/L	0.125	0.125	SM 2340 B-2011	12/15/25	12/16/25 9:42	SMC	
Dissolved Metals										
Cadmium	B254081	<0.010	ug/L	0.010	0.010	EPA 200.8	12/20/25	12/20/25 13:52	DMW	U
Copper	B254000	3.7	ug/L	0.14	0.14	EPA 200.8	12/11/25	12/11/25 14:39	DMW	
Lead	B254000	0.34	ug/L	5.00E-3	5.00E-3	EPA 200.8	12/11/25	12/11/25 14:39	DMW	
Zinc	B254000	17.7	ug/L	0.50	0.50	EPA 200.8	12/11/25	12/11/25 14:39	DMW	

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Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
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Analysis Report

Location:	ACST1C	Location Description:	251204-12-WC
Date/Time Collected:	12/04/2025 18:47 - 12/05/2025 04:09		
Lab Number:	AC00454-03	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B254007	0.770	mg/L	0.0450	0.0450	Timberline Ammonia-001	12/12/25	12/12/25 10:02	RHC	
BOD5	B253937	11.4	mg/L	2.00	2.00	SM 5210 B-2016	12/06/25	12/11/25 10:06	A.T	
Chloride	B254022	4.35	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	12/15/25	12/15/25 18:52	ALN	
COD	B253933	60.0	mg/L	7.00	7.00	HH 8000, SM 5220D	12/05/25	12/5/25 13:20	NTS	
Nitrate-Nitrite, as N	B253999	0.301	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	12/11/25	12/11/25 11:52	JAL	
TKN	B254029	1.48	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	12/15/25	12/16/25 8:22	JAL	
Total Dissolved Solids	B253965	44.8	mg/L	25.0	25.0	SM 2540 C-2015	12/09/25	12/10/25 14:32	RHC	
Total Suspended Solids	B253925	18.8	mg/L	0.900	0.900	SM 2540 D-2015	12/05/25	12/5/25 12:32	MCB	
Turbidity	B253929	29.3	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	12/05/25	12/5/25 10:27	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B253930	0.101	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	12/05/25	12/5/25 13:40	ALM	M-06
Total Metals										
Mercury	B254061	<6.00E-3	ug/L	6.00E-3	6.00E-3	EPA 245.1	12/18/25	12/18/25 13:42	SAS	U
Arsenic	B254012	1.3	ug/L	0.050	0.050	EPA 200.8	12/14/25	12/18/25 14:52	DMW	
Cadmium	B254012	0.040	ug/L	0.010	0.010	EPA 200.8	12/14/25	12/18/25 14:52	DMW	
Calcium	B253985	4.65	mg/L	0.0500	0.0500	EPA 200.7	12/15/25	12/16/25 9:39	SMC	
Lead	B254012	2.1	ug/L	0.010	0.010	EPA 200.8	12/14/25	12/18/25 14:52	DMW	
Magnesium	B253985	925	ug/L	40.0	40.0	EPA 200.7	12/15/25	12/16/25 9:39	SMC	
Phosphorus as P	B253985	0.156	mg/L	0.0110	0.0110	EPA 200.7	12/15/25	12/16/25 9:39	SMC	
Hardness	B253985	15.4	mg/L	0.125	0.125	SM 2340 B-2011	12/15/25	12/16/25 9:39	SMC	
Dissolved Metals										
Cadmium	B254081	0.012	ug/L	0.010	0.010	EPA 200.8	12/20/25	12/20/25 13:55	DMW	
Copper	B254000	3.8	ug/L	0.14	0.14	EPA 200.8	12/11/25	12/11/25 14:43	DMW	
Lead	B254000	0.16	ug/L	5.00E-3	5.00E-3	EPA 200.8	12/11/25	12/11/25 14:43	DMW	
Zinc	B254000	29.4	ug/L	0.50	0.50	EPA 200.8	12/11/25	12/11/25 14:43	DMW	

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Water Quality Laboratory
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Boise, Idaho 83714-1076
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Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry									
Batch: B253925									
Blank (B253925-BLK1)									
Total Suspended Solids	<0.9	mg/L					12/05/2025	MCB	U
LCS (B253925-BS1)									
Total Suspended Solids			100	90-110			12/05/2025	MCB	
Duplicate (B253925-DUP1)	Source ID: LS02569-02								
Total Suspended Solids					12.6	20	12/05/2025	MCB	
Duplicate (B253925-DUP2)	Source ID: BB05253-02								
Total Suspended Solids					2.23	20	12/05/2025	MCB	
Batch: B253929									
Blank (B253929-BLK1)									
Turbidity	<0.3	NTU					12/05/2025	ALN	U
LCS (B253929-BS1)									
Turbidity			103	90-110			12/05/2025	ALN	
Duplicate (B253929-DUP1)	Source ID: AC00454-01								
Turbidity					0.855	25	12/05/2025	ALN	
Batch: B253933									
Blank (B253933-BLK1)									
COD	<7	mg/L					12/05/2025	NTS	U
LCS (B253933-BS1)									
COD			98.7	90-110			12/05/2025	NTS	
Duplicate (B253933-DUP1)	Source ID: AC00454-01								
COD					0.00	10	12/05/2025	NTS	
Batch: B253937									
Blank (B253937-BLK1)									
BOD5	<2	mg/L					12/11/2025	A.T	U
LCS (B253937-BS1)									
BOD5			93.2	84.6-115.4			12/11/2025	A.T	
LCS (B253937-BS2)									
BOD5			109	84.6-115.4			12/11/2025	A.T	
Duplicate (B253937-DUP1)	Source ID: LS02596-01								
BOD5					4.31	30	12/11/2025	A.T	
Duplicate (B253937-DUP2)	Source ID: BB05255-01								
BOD5					2.40	30	12/11/2025	A.T	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B253965									
Blank (B253965-BLK1)									
Total Dissolved Solids	<25	mg/L					12/10/2025	RHC	U
LCS (B253965-BS1)									
Total Dissolved Solids			95.0	90-110			12/10/2025	RHC	
Duplicate (B253965-DUP1) Source ID: AC00454-02									
Total Dissolved Solids					0.326	10	12/10/2025	RHC	
Batch: B253999									
Blank (B253999-BLK1)									
Nitrate-Nitrite, as N	<0.025	mg/L					12/11/2025	JAL	U
Blank (B253999-BLK2)									
Nitrate-Nitrite, as N	<0.025	mg/L					12/11/2025	JAL	U
LCS (B253999-BS1)									
Nitrate-Nitrite, as N			98.4	90-110			12/11/2025	JAL	
LCS (B253999-BS2)									
Nitrate-Nitrite, as N			96.5	90-110			12/11/2025	JAL	
Duplicate (B253999-DUP1) Source ID: BB05230-01									
Nitrate-Nitrite, as N					0.649	10	12/11/2025	JAL	
Duplicate (B253999-DUP2) Source ID: BB05238-02									
Nitrate-Nitrite, as N					4.90	10	12/11/2025	JAL	
Duplicate (B253999-DUP3) Source ID: EP00519-01									
Nitrate-Nitrite, as N					0.668	10	12/11/2025	JAL	
Duplicate (B253999-DUP4) Source ID: WB04117-05									
Nitrate-Nitrite, as N					0.167	10	12/11/2025	JAL	
Matrix Spike (B253999-MS1) Source ID: BB05230-01									
Nitrate-Nitrite, as N			92.0	90-110			12/11/2025	JAL	
Matrix Spike (B253999-MS2) Source ID: BB05238-02									
Nitrate-Nitrite, as N			93.4	90-110			12/11/2025	JAL	
Matrix Spike (B253999-MS3) Source ID: EP00519-01									
Nitrate-Nitrite, as N			91.9	90-110			12/11/2025	JAL	
Matrix Spike (B253999-MS4) Source ID: WB04117-05									
Nitrate-Nitrite, as N			92.7	90-110			12/11/2025	JAL	
Matrix Spike Dup (B253999-MSD1) Source ID: BB05230-01									
Nitrate-Nitrite, as N			93.0	90-110	0.191	10	12/11/2025	JAL	
Matrix Spike Dup (B253999-MSD2) Source ID: BB05238-02									
Nitrate-Nitrite, as N			91.8	90-110	1.44	10	12/11/2025	JAL	
Matrix Spike Dup (B253999-MSD3) Source ID: EP00519-01									
Nitrate-Nitrite, as N			91.9	90-110	0.0211	10	12/11/2025	JAL	
Matrix Spike Dup (B253999-MSD4) Source ID: WB04117-05									
Nitrate-Nitrite, as N			92.7	90-110	0.0234	10	12/11/2025	JAL	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B254007									
Blank (B254007-BLK1)									
Ammonia, as N	<0.045	mg/L					12/12/2025	RHC	U
Blank (B254007-BLK2)									
Ammonia, as N	<0.045	mg/L					12/12/2025	RHC	U
LCS (B254007-BS1)									
Ammonia, as N			97.8	90-110			12/12/2025	RHC	
LCS (B254007-BS2)									
Ammonia, as N			96.2	90-110			12/12/2025	RHC	
Duplicate (B254007-DUP1) Source ID: AC00454-01									
Ammonia, as N					2.57	20	12/12/2025	RHC	
Duplicate (B254007-DUP2) Source ID: BB05261-01									
Ammonia, as N					1.49	20	12/12/2025	RHC	D
Matrix Spike (B254007-MS1) Source ID: AC00454-01									
Ammonia, as N			103	84-115			12/12/2025	RHC	
Matrix Spike (B254007-MS2) Source ID: BB05261-01									
Ammonia, as N			95.4	84-115			12/12/2025	RHC	D
Matrix Spike Dup (B254007-MSD1) Source ID: AC00454-01									
Ammonia, as N			103	84-115	0.489	20	12/12/2025	RHC	
Matrix Spike Dup (B254007-MSD2) Source ID: BB05261-01									
Ammonia, as N			93.5	84-115	1.47	20	12/12/2025	RHC	D
Batch: B254022									
Blank (B254022-BLK1)									
Chloride	<0.5	mg/L					12/15/2025	ALN	U
LCS (B254022-BS1)									
Chloride			95.0	90-110			12/15/2025	ALN	
Duplicate (B254022-DUP1) Source ID: AC00454-01									
Chloride					0.417	10	12/15/2025	ALN	
Duplicate (B254022-DUP2) Source ID: BB05292-03									
Chloride					1.76	10	12/16/2025	ALN	D
Matrix Spike (B254022-MS1) Source ID: AC00454-01									
Chloride			94.5	90-110			12/15/2025	ALN	
Matrix Spike (B254022-MS2) Source ID: BB05292-03									
Chloride			95.4	90-110			12/16/2025	ALN	D
Matrix Spike Dup (B254022-MSD1) Source ID: AC00454-01									
Chloride			94.4	90-110	0.0193	10	12/15/2025	ALN	
Matrix Spike Dup (B254022-MSD2) Source ID: BB05292-03									
Chloride			97.8	90-110	1.42	10	12/16/2025	ALN	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B254029									
Blank (B254029-BLK1)									
TKN	<0.1	mg/L					12/16/2025	JAL	U
LCS (B254029-BS1)									
TKN			97.2	80-120			12/16/2025	JAL	
Duplicate (B254029-DUP1) Source ID: AC00454-02									
TKN					1.26	20	12/16/2025	JAL	
Duplicate (B254029-DUP2) Source ID: WB04128-06									
TKN					0.688	20	12/16/2025	JAL	D
Matrix Spike (B254029-MS1) Source ID: AC00454-02									
TKN			106	80-120			12/16/2025	JAL	
Matrix Spike (B254029-MS2) Source ID: WB04128-06									
TKN			96.4	80-120			12/16/2025	JAL	D
Matrix Spike Dup (B254029-MSD1) Source ID: AC00454-02									
TKN			103	80-120	1.78	20	12/16/2025	JAL	
Matrix Spike Dup (B254029-MSD2) Source ID: WB04128-06									
TKN			107	80-120	3.68	20	12/16/2025	JAL	D
Dissolved Wet Chemistry									
Batch: B253930									
Blank (B253930-BLK1)									
Orthophosphate, as P	<0.003	mg/L					12/05/2025	ALM	U
LCS (B253930-BS1)									
Orthophosphate, as P			97.7	90-110			12/05/2025	ALM	
Duplicate (B253930-DUP1) Source ID: WB04121-06									
Orthophosphate, as P					0.264	10	12/05/2025	ALM	D
Matrix Spike (B253930-MS1) Source ID: WB04121-06									
Orthophosphate, as P			101	90-110			12/05/2025	ALM	D
Matrix Spike Dup (B253930-MSD1) Source ID: WB04121-06									
Orthophosphate, as P			100	90-110	0.314	10	12/05/2025	ALM	D

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Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals									
Batch: B253985									
Blank (B253985-BLK1)									
Calcium	<0.05	mg/L					12/16/2025	SMC	U
Magnesium	<40	ug/L					12/16/2025	SMC	U
Phosphorus as P	<0.011	mg/L					12/16/2025	SMC	U
LCS (B253985-BS1)									
Calcium			99.9	85-115			12/16/2025	SMC	
Magnesium			100	85-115			12/16/2025	SMC	
Phosphorus as P			103	85-115			12/16/2025	SMC	
Duplicate (B253985-DUP1) Source ID: AC00454-02									
Calcium					0.240	20	12/16/2025	SMC	
Magnesium					0.322	20	12/16/2025	SMC	
Phosphorus as P					0.132	20	12/16/2025	SMC	
Matrix Spike (B253985-MS1) Source ID: AC00454-02									
Calcium			99.1	70-130			12/16/2025	SMC	
Magnesium			100	70-130			12/16/2025	SMC	
Phosphorus as P			99.6	70-130			12/16/2025	SMC	
Matrix Spike Dup (B253985-MSD1) Source ID: AC00454-02									
Calcium			99.6	70-130	0.201	20	12/16/2025	SMC	
Magnesium			100	70-130	0.0928	20	12/16/2025	SMC	
Phosphorus as P			103	70-130	1.31	20	12/16/2025	SMC	
Batch: B254012									
Blank (B254012-BLK1)									
Arsenic	<0.050	ug/L					12/18/2025	DMW	U
Cadmium	<0.010	ug/L					12/18/2025	DMW	U
Lead	<0.010	ug/L					12/18/2025	DMW	U
LCS (B254012-BS1)									
Arsenic			100	85-115			12/18/2025	DMW	
Cadmium			104	85-115			12/18/2025	DMW	
Lead			106	85-115			12/18/2025	DMW	
Duplicate (B254012-DUP1) Source ID: AC00454-01									
Arsenic					1.72	20	12/18/2025	DMW	
Cadmium					2.58	20	12/18/2025	DMW	
Lead					4.09	20	12/18/2025	DMW	
Matrix Spike (B254012-MS1) Source ID: AC00454-01									
Arsenic			101	70-130			12/18/2025	DMW	
Cadmium			104	70-130			12/18/2025	DMW	
Lead			106	70-130			12/18/2025	DMW	
Matrix Spike Dup (B254012-MSD1) Source ID: AC00454-01									
Arsenic			102	70-130	0.370	20	12/18/2025	DMW	
Cadmium			105	70-130	0.613	20	12/18/2025	DMW	
Lead			106	70-130	0.432	20	12/18/2025	DMW	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals (Continued)									
Batch: B254061									
Blank (B254061-BLK1)									
Mercury	<0.006	ug/L					12/18/2025	SAS	U
LCS (B254061-BS1)									
Mercury			98.7	85-115			12/18/2025	SAS	
Duplicate (B254061-DUP1) Source ID: AC00454-01									
Mercury					NR	20	12/18/2025	SAS	U
Matrix Spike (B254061-MS1) Source ID: AC00454-01									
Mercury			106	70-130			12/18/2025	SAS	
Matrix Spike Dup (B254061-MSD1) Source ID: AC00454-01									
Mercury			104	70-130	1.99	20	12/18/2025	SAS	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Metals									
Batch: B254000									
Blank (B254000-BLK1)									
Cadmium	<0.010	ug/L					12/11/2025	DMW	U
Copper	<0.14	ug/L					12/11/2025	DMW	U
Lead	<0.0050	ug/L					12/11/2025	DMW	U
Zinc	<0.50	ug/L					12/11/2025	DMW	U
LCS (B254000-BS1)									
Cadmium			98.6	85-115			12/11/2025	DMW	
Copper			100	85-115			12/11/2025	DMW	
Lead			102	85-115			12/11/2025	DMW	
Zinc			101	85-115			12/11/2025	DMW	
Duplicate (B254000-DUP1) Source ID: ME00417-06									
Cadmium					NR	10	12/11/2025	DMW	U
Copper					0.462	10	12/11/2025	DMW	
Lead					1.17	10	12/11/2025	DMW	
Zinc					1.22	10	12/11/2025	DMW	
Matrix Spike (B254000-MS1) Source ID: ME00417-06									
Cadmium			97.5	70-130			12/11/2025	DMW	
Copper			92.9	70-130			12/11/2025	DMW	
Lead			96.5	70-130			12/11/2025	DMW	
Zinc			97.5	70-130			12/11/2025	DMW	
Matrix Spike Dup (B254000-MSD1) Source ID: ME00417-06									
Cadmium			95.0	70-130	2.55	10	12/11/2025	DMW	
Copper			89.3	70-130	3.61	10	12/11/2025	DMW	
Lead			93.4	70-130	3.27	10	12/11/2025	DMW	
Zinc			92.5	70-130	4.78	10	12/11/2025	DMW	
Batch: B254081									
Blank (B254081-BLK1)									
Cadmium	<0.010	ug/L					12/20/2025	DMW	U
LCS (B254081-BS1)									
Cadmium			105	85-115			12/20/2025	DMW	
Duplicate (B254081-DUP1) Source ID: ME00417-06RE1									
Cadmium					NR	10	12/20/2025	DMW	U
Matrix Spike (B254081-MS1) Source ID: ME00417-06RE1									
Cadmium			97.0	70-130			12/20/2025	DMW	
Matrix Spike Dup (B254081-MSD1) Source ID: ME00417-06RE1									
Cadmium			95.3	70-130	1.79	10	12/20/2025	DMW	

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Report Date: 01/05/2026 13:54

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Notes and Definitions

Item	Definition
D	Data reported from a dilution
J	Estimated value
M-06	The reported result has been confirmed by reanalysis.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristen Jolliffe
Steven Turner

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
ACC0454-01	12/4/25	12/5/25	1949	0543	251204-03-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	1
-02	12/4/25	12/5/25	1917	0651	251204-11-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	2
-03	12/4/25	12/5/25	1847	0409	251204-12-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	1

Relinquished by (sign)	Date &Time Transferred	Received by (sign)	Comments/ Special Instructions
Kristen Jolliffe	12/5/25 0844	Sarah Neal 12/5/25 0846	

ACC0454

251006 S

ACC0454

NPDES Phase I Storm Event Report
February 16, 2026

Prepared by
Ada County Highway District
April 6, 2026

Section 1: Introduction

The Environmental Protection Agency Region 10 issued a Municipal Separate Storm Sewer System Phase I National Pollutant Discharge Elimination System Permit (NPDES Permit), effective October 1, 2021, to Ada County Highway District (ACHD), Boise City, Ada County Drainage District No. 3, Idaho Transportation Department District 3, Boise State University, and Garden City. Under the NPDES Permit, Permittees are required to continue to conduct wet weather stormwater outfall monitoring and subwatershed monitoring. Four outfall monitoring sites (Lucky, Whitewater, Main, and Americana) and one subwatershed monitoring site (AS_6) have been established. The AS_6 site represents a subwatershed located within the Americana watershed. At each site, a minimum of three composite and three grab samples will be collected during Water Year (WY) 2026 (October 1, 2025, through September 30, 2026). The following storm event report summarizes stormwater sampling results from the February 16, 2026, storm event.

Section 2: Project Status

Table 2-1 is a summary of the sample types collected to date for WY 2026 Phase I Stormwater Outfall Monitoring. When samples are qualified, additional samples will be attempted from subsequent storms to collect unqualified samples.

Table 2-1. WY 2026 Samples Collected

Date	Lucky	Whitewater	Main	Americana	AS_6
October 25, 2025	--, C	--, C[1]	--, C	--, C	--, C
December 4, 2025	G[2], C	G[2], C	G[2], C	G[2,3], --	--, --
February 16, 2026	G[2], C	G[2], C	G[2], C[1]	G[2], C	G[2], C
Unqualified Samples:	0G, 3C	0G, 2C	0G, 2C	0G, 2C	0G, 2C
Samples Remaining:	3G, 0C	3G, 1C	3G, 1C	3G, 1C	3G, 1C

Notes:

-- = no samples taken.

C = composite sample.

G = grab sample.

[1] Composite sample qualified due to lack of representativeness (50%–75%).

[2] E. coli sample qualified due to exceeded hold time (>8 and <16 hours).

[3] E. coli and field parameter samples rejected due to insufficient rainfall at the time of sample collection.

Section 3: Storm Event Summary

The February 16, 2026, storm event and the subsequent preparation and sampling efforts are detailed in the following sections.

3.1 Storm Detail

A summary of the forecast on which monitoring decisions were based is detailed below. The sampling event communication form that describes the forecast and summarizes the decision-making process from February 16, 2026, is included in Attachment A for reference.

Sunday, February 15, 2016 (Sampling Event Communication)

- On the afternoon of February 15, 2026, the National Weather Service issued a forecast for a convective, showery band of precipitation beginning on February 16 at 1700 until 0500 on February 17. The chance of precipitation was 90% with a 90% chance of rain totals exceeding 0.10" over a 12-hour period. The forecasted precipitation for this event was 0.25 inches of rain.

Monday, February 16, 2026 (Set up)

- Monitoring station setup was accomplished on the morning of February 16. An expected precipitation depth of 0.11 inches was used to set trigger volumes at monitoring stations. A runoff calculations worksheet showing how the trigger volumes were calculated is included in Attachment A.

Monday, February 16, 2026 (Storm Event)

- The runoff started on February 16 at approximately 1812 and ended on February 17 at approximately 0654.
- Precipitation totals ranged between 0.29 and 0.33 inches at local rain gauges.

Flow measurements and precipitation data are listed in Table 1 along with a sampling summary. Hydrographs for the Lucky, Whitewater, Main, Americana, and AS_6 sites showing flow, rain, and sample collection data are included in Attachment B.

3.2 Sampling Summary

The Lucky, Whitewater, Main, Americana, and AS_6 monitoring stations were set up on February 16, to collect flow-proportional composite samples during the storm. Sampler enable conditions were programmed into the Lucky, Whitewater, Main, Americana, and AS_6 flowmeters. Setup and sampling information are included in Table 1. The field forms completed during setup/shutdown and sampling are included in Attachment C.

Grab Samples

Two, two-member teams mobilized to collect stormwater grab samples and verify operation of the automatic sampling equipment on February 16 at approximately 1915. Grab samples were collected at the Lucky, Whitewater, Main, Americana, and AS_6 monitoring stations and submitted to the Boise City Public Works Water Quality Laboratory (WQL) on February 16 at 2115. Results for grab samples, including field parameter and analytical data, are included in Table 2. Laboratory analytical reports are included in Attachment D.

Composite Samples

Composite samples were collected at the Lucky, Whitewater, Main, Americana, and AS_6 monitoring stations and submitted to the WQL at 0645 on February 17. Analytical results are shown in Table 2, and pollutant loading estimates for the event are detailed in Table 3. Laboratory analytical reports are included in Attachment D.

Section 4: Quality Assurance/Quality Control

A summary of quality control samples collected during the February 16, 2026, storm event is presented below in Table 4-1. A field blank and a field duplicate were collected from the Main monitoring station. The analytical results for these samples are included in Table 4.

Table 4-1. Quality Control Samples

Sample ID	Sample Type	Parent Sample	Conclusions
260216-03-001	Field blank	260216-03-WG	No *E. coli* detected in the field blank.
260216-03-101	Field duplicate	260216-03-WG	Relative percent difference was within the acceptable range.

E. coli sample results are qualified due to exceeded hold time if the sample is prepared 8 to 16 hours after sample collection. The Lucky, Whitewater, Main, Americana, and AS_6 grab samples were prepared approximately 11 hours after sample collection. Therefore, the *E. coli* results are qualified.

An acceptable composite sample represents at least 75 percent of the total discharge or at least 6 hours of the storm duration. The Lucky, Whitewater, Americana, and AS_6 composite samples met the representativeness criteria. The Main composite sample represents 54% of the total discharge and less than six hours of the storm duration. Therefore, the Main composite sample is qualified.

Data quality objectives for this storm were evaluated and tracked using the data validation review checklist included in Attachment A.

Section 5: Notes and Recommendations

Main

Upon arrival at the Main monitoring site on February 17, it was discovered that the sampler tubing disconnected from the sampler base. Approximately 17 of the 20 subsamples collected for bottle 2 were dispensed into the sampler base rather than the composite bottle, resulting in low discharge representativeness and storm duration.

Data Tables

Table 1. Sampling and Flow Summary					
	Lucky	Whitewater	Main	Americana	AS_6
Grab samples collected and submitted?	YES	YES	YES	YES	YES
Composite samples collected and submitted?	YES	YES	YES	YES	YES
Trigger volume	2895 gal	801 cf	456 cf	2960 cf	1646 gal
Sampler enable condition (in) or Velocity cutoff (fps)	Level > 1.11	Level > 2.6	Level > 2.2	Level > 5.02	Level > 1.00
Deadband/ Hysteresis (in)	1.0"	1.0"	1.0"	1.0"	1.0"
Runoff start time	1847[1]	1830[1]	1822[1]	1812[1]	1850[1]
Grab sample collection time	1936	2021	1923	1943	2012
Composite sample stop time	0404	0529	0046	0421	0215
Runoff stop time	0605[2]	0654[2]	0552[2]	0626[2]	0519[2]
Volume of discharge sampled (ft^3)	11,387	44,894	11,505	135,044	6,182
Total runoff volume (ft^3)	16,585	65,300	21,288	167,374	7,774
Percent of storm flow sampled (%)	69%	69%	54%	81%	80%
Composite sample duration (hrs)	7.5	9	6	8.5	4.5
Storm Precipitation (in)	0.29	0.33	0.32	0.32/0.33	0.32/0.33
Referenced Rain Gauge	Cynthia Mann	Whitewater	Front	Front/East	Front/East
Sampler messages (counts): Success	28	58	44	48	25
: Sample skipped	--	--	--	1	--
: Low pump volt	--	--	--	--	2
Number of composite bottles filled	2	3	2	3	2
Composite sample volume (Approx.; mL)	14,500 mL	30,750 mL	16,000 mL	28,500 mL	14,400 mL

Notes:

– = No data.

[1] *Storm runoff started on 2/16/2026*

[2] *Storm runoff ended on 2/17/2026*

Table 2. Field and Analytical Data Summary

Monitoring Station	Sample Date	Sample ID Grab	Field Parameters				Analytical Parameters																						
			Dissolved Oxygen	pH	Conductivity	Temperature	E. coli	Sample ID Composite	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
			mg/L	S.U.	uS/cm	C	MPN/100 mL		mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Lucky	2/16/2026	260216-03-WG	7.082	7.515	156.6	12.08	40.4[2]	260216-03-WC	12.5	127	2.10	22.1	27.4	98.1	41.2	0.329	0.0963	0.552	0.392	2.11	2.9	<0.010	0.11	1.9	0.092	3.3	0.0205	15.4
Whitewater	2/16/2026	260216-11-WG	9.049	7.457	562.5	8.706	88.2[2]	260216-11-WC	13.0	111	23.8	45.3	29.5	90.8	104	0.379	0.170	0.496	0.592	2.28	2.1	<0.010	0.082	2.4	0.13	6.4	0.0172	10.7
Main	2/16/2026	260216-12-WG	9.33	7.76	270.9	10.28	23.1[2]	260216-12-WC	10.9[1]	125[1]	16.2[1]	23.4[1]	33.9[1]	111[1]	62.3[1]	0.189[1]	0.0511[1]	0.831[1]	0.405[1]	1.83[1]	1.7[1]	0.012[1]	0.13[1]	2.7[1]	0.058[1]	9.4[1]	0.0158[1]	22.5[1]
Americana	2/16/2026	260216-14-WG	9.33	7.74	505.6	11.86	46.5[2]	260216-14-WC	10.8	88.0	49.2	75.5	24.0	76.3	164	0.244	0.104	0.509	0.858	1.76	2.9	0.013	0.084	2.7	0.076	5.2	0.0156	16.0
AS_6	2/16/2026	260216-206-WG	9.97	7.55	168.6	8.05	51.2[2]	260216-206-WC	16.9	381	8.03	20.0	20.8	121	62.0	0.478	0.230	0.526	0.303	2.67	2.7	0.010	0.10	3.5	0.32	10.5	0.0202	10.3

Notes:

-- = No data.

[1] *Composite sample qualified due to lack of representativeness (50% - 75%).*

[2] *E. coli sample qualified due to exceeded hold time (>8 and <16 hours).*

Table 3. Event Pollutant Loading Estimates in Pounds						
Monitoring Station	Event Date	TSS	Total Phosphorus	Ammonia as N	Nitrate + Nitrite as N	TKN
Lucky	2/16/2026	101.5	0.341	0.571	0.406	2.184
Whitewater	2/16/2026	370.0	1.545	2.021	2.413	9.292
Main	2/16/2026	147.6[1]	0.251[1]	1.105[1]	0.538[1]	2.433[1]
Americana	2/16/2026	823.9	2.635	5.497	9.265	19.01
AS_6	2/16/2026	58.7	0.232	0.255	0.147	1.295

Notes:

[1] *Composite sample qualified due to lack of representativeness (50% - 75%).*

Table 4. QC Sample Summary				
Date	Parent Sample	Sample ID	Type	E. coli
				mpn/100 mL
2/16/2026	260216-03-WG	260216-03-001	Field Blank	<1.0[3]
2/16/2026	260216-03-WG	260216-03-101	Field Duplicate	24.1[3]
Calculated parent/duplicate RPD				15%
Allowable RPD				40%

Notes:

[3] *E. coli sample qualified due to exceeded hold time (>8 and <16 hours).*

Attachment A: Supplemental Documents

Sampling Event Communication Form

Data Validation Checklist

Runoff Calculation Worksheet

SAMPLING EVENT COMMUNICATION FORM

Date: 2/15/2026	Time: 4:30 PM	Initials: ST
Is there a targeted sampling event during the next 36 hours? (Or, if it is Friday, is a targeted event expected before 5:00 PM Monday?) Or, if it is Friday,		Yes

Past 72 hr Precip	
Date and time of expected event	2/16 5:00pm – 2/17 5:00am
Expected amount of precipitation	0.25"
Percent chance of precipitation	90%
Percent chance of >0.10" over 12 hours	90%

NWS Update

Spoke with Les at NWS. A cold front will arrive from the southwest on Monday evening around 5:00 pm, bringing a convective, showery band of precipitation. We can expect 0.25" total with a 90% chance of exceeding 0.1" for the duration of the storm (5:00pm – 5:00am). There will be a chance of rain shadowing from the Owyhee's but it will be quickly overcome by the strength of the front.

Targeted Station & Samples

Lucky	Whitewater	Main	Americana	AS_6	State (Phase II)
☒ Grab	☒ Grab	☒ Grab	☒ Grab	☒ Grab	☐ Grab
☒ Composite	☒ Composite	☒ Composite	☒ Composite	☒ Composite	☐ Composite

Type of Forecasted Precipitation

☐ Light Rain	☒ Rain	☐ Rain on Snow
☒ Scattered Showers	☐ Thunder Showers	☐ Snowmelt
☐ Other:		

Reasons for Not Targeting a Forecasted Storm and/or Stations

☐ Holiday:
☐ Waiting on Antecedent Dry Period:
☐ Equipment Concerns:
☐ Other:

Text Forecast

NWS Forecast for: 2 Miles NNW Garden City ID
Issued by: National Weather Service Boise, ID
Last Update: 2:06 am MST Feb 13, 2026

Tonight: Partly cloudy, with a low around 36. Light and variable wind becoming northeast around 6 mph.
Washington's Birthday: A 20 percent chance of rain after 11am. Increasing clouds, with a high near 58. South southeast wind 6 to 15 mph.
Monday Night: Rain. Low around 32. North wind 5 to 9 mph becoming south southwest in the evening. **Chance of precipitation is 90%. New precipitation amounts between a tenth and quarter of an inch possible.**
Tuesday: A chance of rain and snow showers before 8am, then a chance of snow showers between 8am and 2pm, then a chance of rain and snow showers after 2pm. Mostly cloudy, with a high near 46. West wind 6 to 13 mph becoming south in the morning. Chance of precipitation is 40%. Little or no snow accumulation expected.

Tuesday Night: A chance of rain and snow showers before 2am, then a chance of snow showers. Mostly cloudy, with a low around 28. Southeast wind 6 to 11 mph. Chance of precipitation is 40%. New snow accumulation of less than a half inch possible.
Wednesday: Snow showers likely, mainly before 11am. Mostly cloudy, with a high near 41. **Chance of precipitation is 60%. New snow accumulation of less than a half inch possible.**
Wednesday Night: A 20 percent chance of snow showers. Mostly cloudy, with a low around 25.
Thursday: A 40 percent chance of snow showers. Partly sunny, with a high near 40.
Thursday Night: A 30 percent chance of snow showers. Mostly cloudy, with a low around 24.
Friday: A 30 percent chance of snow showers. Partly sunny, with a high near 39.
Friday Night: A 20 percent chance of snow showers. Partly cloudy, with a low around 25.
Saturday: A 30 percent chance of snow showers. Partly sunny, with a high near 44.
Saturday Night: A 30 percent chance of snow showers. Mostly cloudy, with a low around 31.
Sunday: A chance of rain and snow showers. Mostly cloudy, with a high near 54. Chance of precipitation is 30%.

Forecast Discussion

Area Forecast Discussion
National Weather Service Boise ID
224 PM MST Sun Feb 15 2026

.SHORT TERM...Tonight through Tuesday night...Light, isolated showers will continue in our northern zones this afternoon near the west central Idaho/Wallowa Mountains. Snow levels are at 5-6kft MSL, which will limit any light snow accumulation to higher peaks. Otherwise, partly cloudy skies and mild temperatures are on tap for this afternoon. Southerly flow aloft will continue to warm and moisten our area through tomorrow, ahead of the well advertised cold front. Temperatures tomorrow will be similar to today, although leaning a few degrees warmer in southwest Idaho and a couple degrees cooler in eastern Oregon.

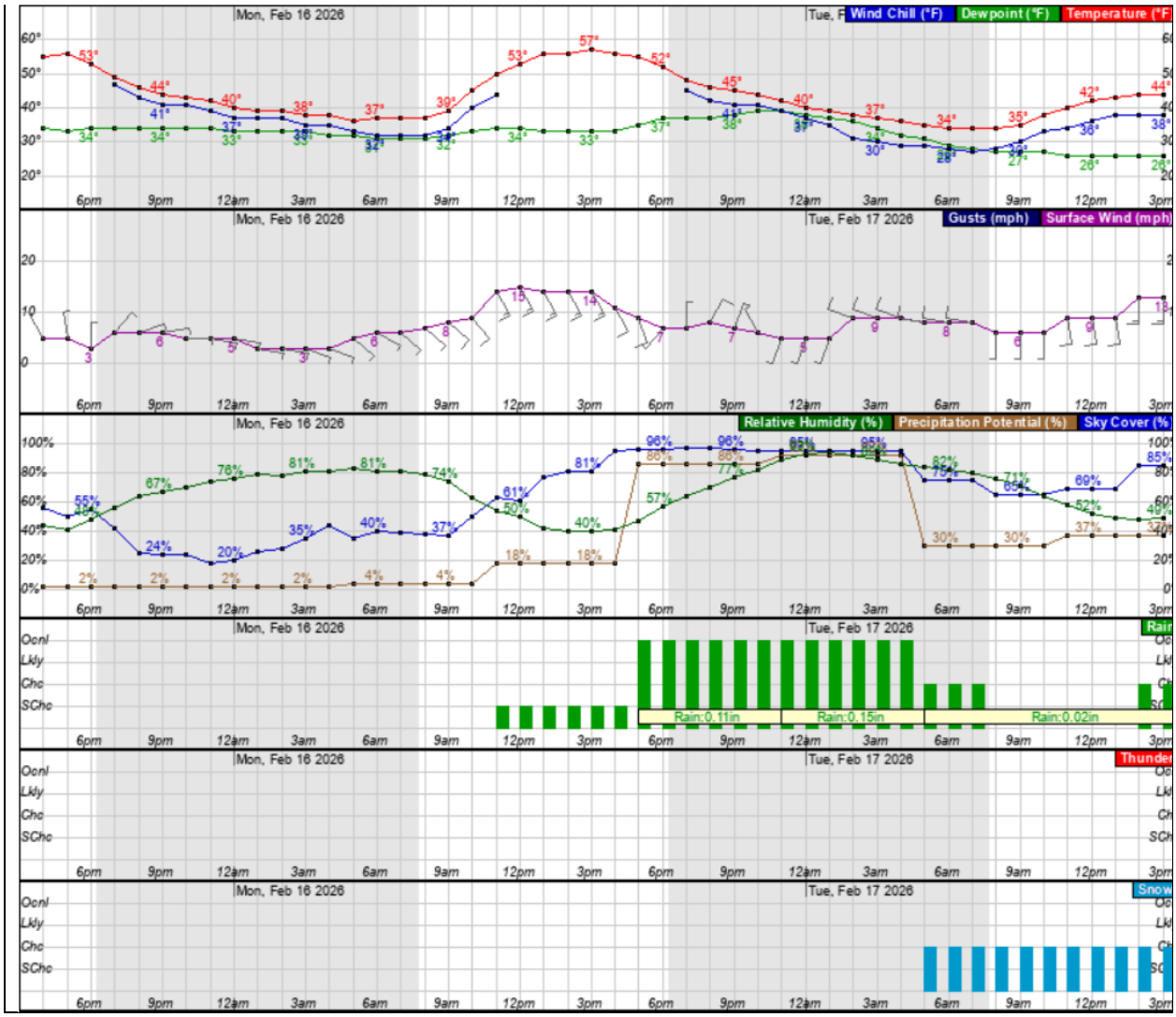
Monday will mark the start of a change into unsettled weather. as a low and corresponding cold front, currently off the coast of NorCal, gets steered over our area by another low digging and deepening down the coast of British Columbia. Clouds and precipitation chances will increase as the cold front move west to east across our area. **Precipitation will start in eastern Oregon Monday morning, and make its way east from there. The period of heaviest precipitation is still on track to take place late Monday into early Tuesday (5pm MST Monday through 5am MST Tuesday).** Snow levels Monday morning will be at 3,500-4,500 ft MSL, before rising to 4,500-6,500 ft (increasing from west to east) by Monday afternoon as the surface heats. Behind the cold front, snow levels will fall to valley floors over night Monday into Tuesday morning. This would support a wintry mix/snow in the Treasure Valley, however precipitation will be tapering off at the same time so little to no accumulation is expected. Over the course of Monday morning through Tuesday afternoon, snow accumulations of 4-10 inches is expected above 6,000 ft MSL (locally higher on peaks), with 1-4 inches in mountain valleys. **In terms of liquid, between 0.10-0.30 inches of rain is expected in lower elevations over that same time period.**

Showers will taper off through Tuesday morning as the cold front moves out of our area. Tuesday afternoon and Wednesday morning, the second low coming ashore and cooling temperatures aloft

will support snow/graupel showers redeveloping. Amounts will be variable, due to the showery nature, however mountains can see additional accumulations of 1-4 inches Tuesday afternoon through Wednesday morning. A dusting of snow (30-60% chance) will also be possible in lower valleys. Gusty winds will follow the front, with gusts to 20-30 mph Tuesday afternoon (locally higher on ridgetops and open terrain). Temperatures will cool to be near or below normal come Tuesday, with highs in the 40s throughout the Snake Plain, and 30s in eastern Oregon and mountain valleys.

.LONG TERM...Wednesday through Sunday...A trough will remain over the area with cool and unsettled conditions. Cold air aloft will provide enough instability for afternoon snow/graupel showers, especially over the mountains, with mostly clear skies at night and patchy fog. The models and ensembles have too high of probabilities at night, as these showers will generally be diurnal driven by the sun. Temperatures will be around 10 degrees below normal through Friday. Another system moves across OR into NV on Friday, with a reinforcement of cold air aloft, enhancing snow showers over the mountains. A ridge builds into the area on Saturday with drier conditions and warmer temperatures as a strong upper level trough moves south out of the Gulf of Alaska along the West Coast. As this evolves, strong south-southeast surface winds expected on Saturday and Sunday as the system approaches with much warmer temperatures. Current forecast and NBM/WPC is too wet for the Saturday and Sunday period as the area is under strong southwest flow aloft and in the dry sector of the system. Temperatures Sunday rebound into the mid to upper 50s in the warm sector of this system in the valley locations.

Hourly Forecast


Mon, Feb 16 2026
Tue, F
Wind Chill (°F)
Dewpoint (°F)
Temperature (°F
Tue, Feb 17 2026
Gusts (mph)
Surface Wind (mph)
Relative Humidity (%)
Precipitation Potential (%)
Sky Cover (%
Ocnl
Lkly
Chc
SChc
Rain:0.11in
Rain:0.15in
Rain:0.02in
6pm
9pm
12am
3am
6am
9am
12pm
3pm

Storm Event QA/QC Checklist – Phase I

STORM DATE: 2/16/26									
A. Event and Data Completeness	**Yes**	**No**	**N/A**	**Notes**					
1. Field data sheets filled out completely and clearly	X								
2. Field parameters reviewed, and any problems/issues addressed	X								
3. All samples collected as specified	X								
4. All samples delivered to lab promptly (review chain of custody rpts)	X								
5. Inconsistencies/clarifications discussed with sampling team member			X						
6. All analytical reports from lab received	X								
B. Validation and Verification Methods	**Yes**	**No**	**N/A**	**Notes**					
1. Outliers and unexpected values discussed with lab			X						
2. Appropriate analytical methods used	X								
3. All lab QA samples were within method acceptance criteria	X								
4. All samples reviewed and data qualifiers assigned if needed	KJ								
5. Data quality objective achieved	X								
C. Specific Storm and Sample QA/QC Criteria	**Lucky**	**Whitewater**	**Main**	**Americana**	**AS_6**	**Program Criteria**	**Met**	**Qualify**	**Reject**
1. Antecedent dry period (inches in previous 72-hours)	0.00"	0.00	0.00	0.00	0.00	< 0.11" in 72 hrs	X		
2. Precipitation (inches)	0.29"	0.33"	0.32"	0.32"/ 0.33"	0.32"/ 0.33"	> 0.10"	X		
3. Sampled amount (% of total run-off)	69%	69%	54%	81%	80%	>= 75% or >= 6 hrs: no qualifier >= 50% and <75%: qualify < 50%: reject	X	X Main	
4. Composite sample duration (hours)	7.5	9	6	8.5	4.5				
4. Ecoli sample holding time (hours)	12	11	11.5	11.5	11	<=8 hrs: no qualifier >8 and <=16 hrs.: qualify >16 hrs.: reject		X	
5. Filtering of samples for dissolved parameter analysis (hours)	3	3	7	4	5.5	<= 24 hrs: no qualifier > 24 hrs.: reject	X		
D. Notes									

- E. coli samples qualified due to exceeded holding time from all targeted sites.
- Main composite sample was qualified due to lack of representativeness (50-75% and < 6 hours of storm duration).

Reviewed by: Steven Turner Digitally signed by Steven Turner Date: 2026.04.13 08:30:28 -06'00'

Approved by: Monica I. Lowe Digitally signed by Monica I. Lowe Date: 2026.04.13 09:37:08 -06'00'

Storm Runoff Estimates and Trigger Volumes

Step 1. Enter runoff coefficients in yellow cells.
Step 2. Enter expected precipitation depth (in) in blue cell.
Step 3. Read trigger volumes (**bold**) in green cells.

Expected Precipitation Depth = 0.11
Aliquots per Sample = 17

Site	Area (ac)	Using RC calculated from flow data		
		RC	Expected Vol (ft^3)	Trigger Vol (ft^3)
Lucky	105	0.157	6582.5	**387**
Whitewater	498	0.069	13621.3	**801**
Main	79	0.246	7760.0	**456**
Main Alt	60	0.200	4791.6	**282**
Americana	875	0.144	50311.8	**2960**
Americana Alt	869	0.144	49966.8	**2939**
AS_6	204	0.046	3747.0	**220**

Notes:

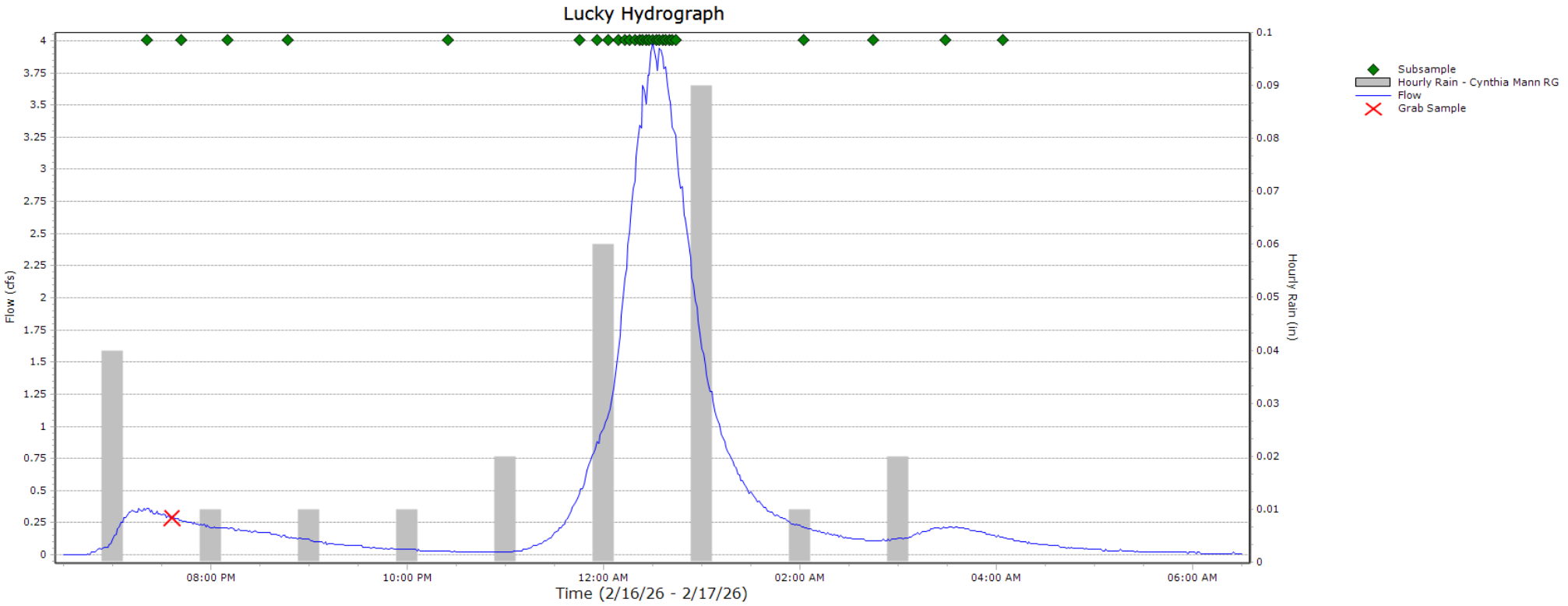
Calculated RC = runoff volume (ft^3) / [precip (ft) x area (ft^2)]

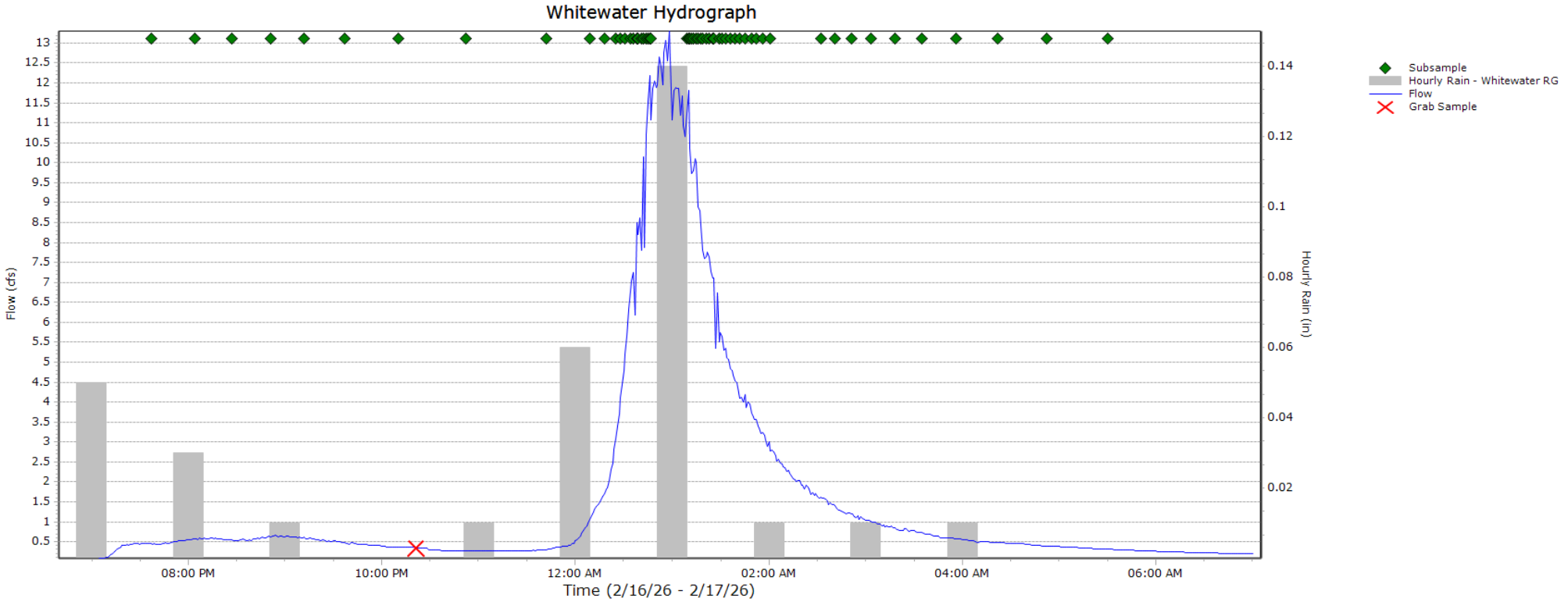
Where volume (ft^3) is the measured discharge, precip (ft) is the measured amount from local rain guage, and area (ft^2) is the watershed area.

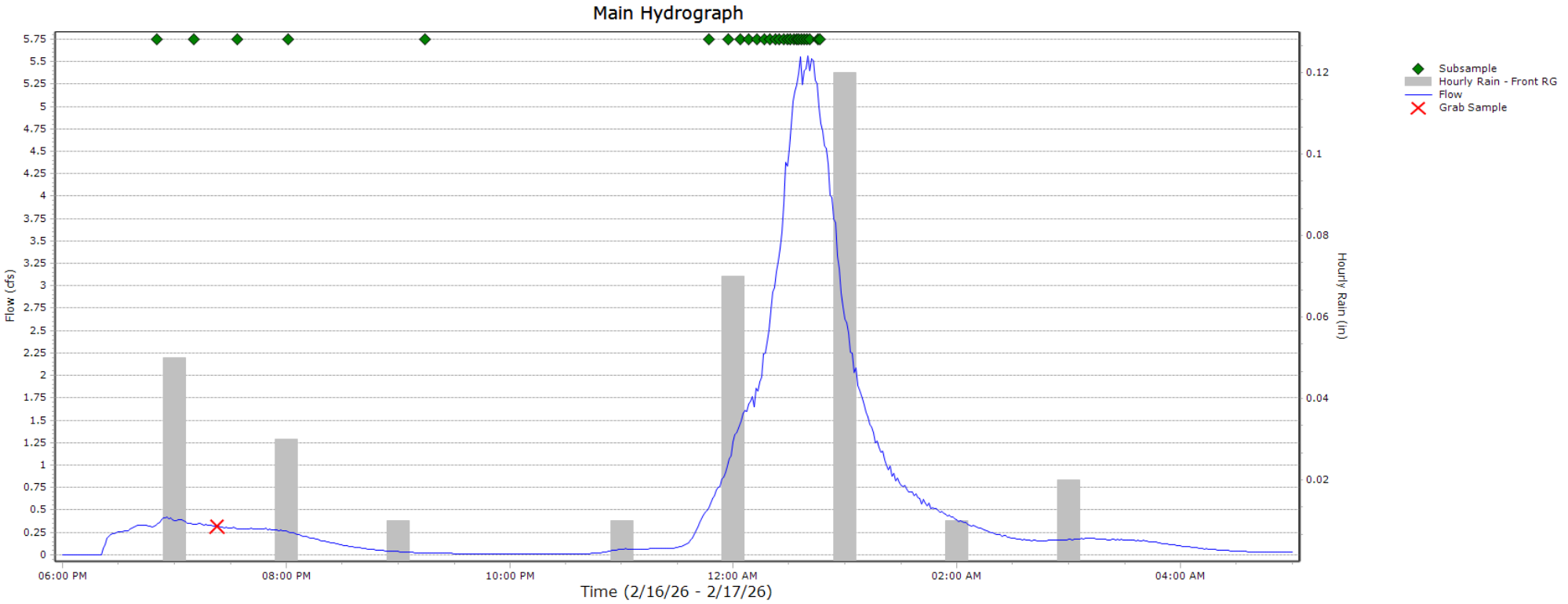
Expected volume (ft^3) = RC x expected precip (ft) x area (ft^2)

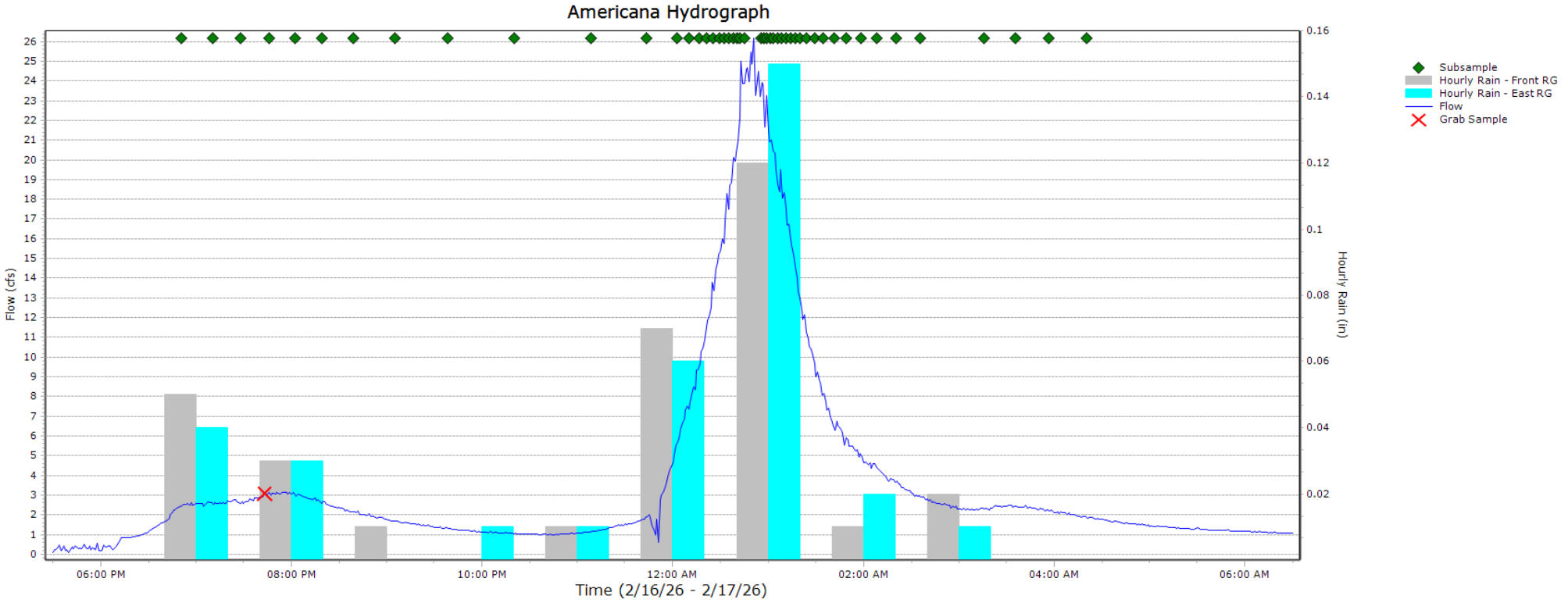
Updated 250213 KJ

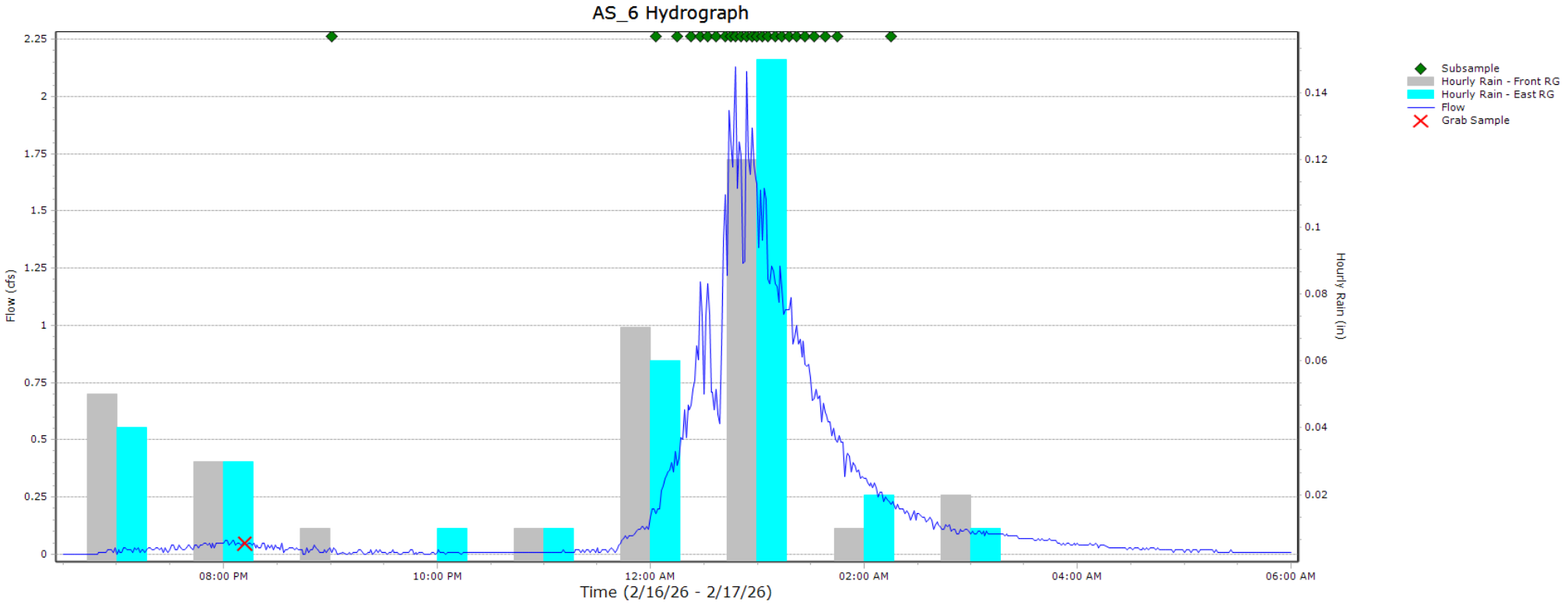
Attachment B: Storm Event Hydrographs


Lucky Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (2/16/26 - 2/17/26)
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
Subsample
Hourly Rain - Cynthia Mann RG
Flow
Grab Sample


Whitewater Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (2/16/26 - 2/17/26)
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
Subsample
Hourly Rain - Whitewater RG
Flow
Grab Sample


Main Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (2/16/26 - 2/17/26)
06:00 PM
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
Subsample
Hourly Rain - Front RG
Flow
Grab Sample


Americana Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (2/16/26 - 2/17/26)
06:00 PM
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
Subsample
Hourly Rain - Front RG
Hourly Rain - East RG
Flow
Grab Sample


AS_6 Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (2/16/26 - 2/17/26)
08:00 PM
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
Subsample
Hourly Rain - Front RG
Hourly Rain - East RG
Flow
Grab Sample

Attachment C: Field Forms

Grab Sample Data Form

STATION: Lucky

Personnel: ST CL **Date/Time On-Site:** 2/16/26 19:20

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
19:22	3.96	159.99 gpm	0.93	12.6

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260216-03 -WG	2-16-26	19:36	☑
Field Duplicate *E.Coli**	260216-03 -101	2-16-26	19:40	☑
Field Blank *E.Coli**	260216-03 -001	2-16-26	19:42	☑

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MD 14	19:33	12.08	7.082	7.515	156.6

Sampler Current Status	
First Subsample Date/Time	02-16-26 19:21
Last Subsample Date/Time	02-16-26 19:42
# of Subsamples taken	2

Comments:

Date/Time Off-Site: 02-16-26 1951

Grab Sample Data Form

STATION: Whitewater

Personnel: ST CL **Date/Time On-Site:** 2/16/26 20:03

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
20:06	3.46	0.59	1.09	—

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260216-11 -WG	2/16/26	2021	☒
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP14	2016	8.706	9.049	7.457	562.5

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	2

Comments:

Date/Time Off-Site: 2/16/26 2027

Grab Sample Data Form

STATION: Main

Personnel: KS | RR **Date/Time On-Site:** 1915

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1917	4.249	0.34	0.61	11.65

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	RR 260216-12-WG	02/16/26	1923	☒
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP15	1925	10.28	9.33	7.76	270.9

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	

Comments:

Date/Time Off-Site: _____

Grab Sample Data Form

STATION: Americana

Personnel: KTJ/RR **Date/Time On-Site:** 02/16/26 1935

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1936	6.927	2.882	2.579	11.85

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260216-14 -WG	2/16/26	1943	☒
Field Duplicate *E.Coli**	260216-14 -101	2/16/26	1945	☒
Field Blank *E.Coli**	260216-14 -001	2/16/26	1948	☒

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP15	1950	11.86	9.33	7.74	505.6

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	

Comments: Alternate QC samples discarded due to successful collection of samples at primary QC site (Lucky).

Date/Time Off-Site: _____

Grab Sample Data Form

STATION: AS-6

Personnel: KJ, RR **Date/Time On-Site:** 2/16/26 2005

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
2008	1.92	20.02	0.44	12.6

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260216-206 -WG	2/16/26	2012	☒
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP15	2013	8.05	9.97	7.55	168.6

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	

Comments:

Date/Time Off-Site: 2/16/26 2016

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: Lucky

SET UP

Personnel: ST, KJ

Date/Time On-Site: 2/16/26 10:04

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1016	0.11	0.00	0.00	12.7
Enable Condition or Velocity Cutoff:				1.11"
Deadband:				1.00"
Trigger Volume:				2895 gal

- [x] Check desiccant on flowmeter and sampler
- [x] Install batteries on flowmeter and sampler
- [x] Perform decon. cycle
- [x] Install 15L sample bottle, with ice
- [x] Leave bottle lid at site, in a clean re-sealable plastic bag
- [x] Verify all cable and tubing connections
- [x] Check date and time on flowmeter and sampler
- [x] Set flowmeter program and sampler program parameters
- [x] Set logging interval to 1 minute
- [x] Start flowmeter program and sampler program
- [x] Verify running

Comments:

Date/Time Off-Site: 2/16/26 1030

SHUT DOWN

Personnel: ST

Date/Time On-Site: 2/18/26 9:38

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
9:42	0.86	0.00	0.00	12.6
Downloaded to:		ST USB		

If flow monitoring is complete:	If continuing to monitor flow:
☒ Halt program on flowmeter	☐ Replace flowmeter battery
☒ Download flowmeter data	☐ Reset logging interval to 15 minutes
☒ Remove flowmeter battery	☐ Change velocity cutoff to 0.02 fps
	☐ Start program
	☐ Verify running

Comments:

Date/Time Off-Site: ~~KJ~~ ST 2/18/26 9:54

STATION: Lucky
Personnel: ST, KS

Bottle 1 **of** 2
Date/Time On-Site: 2/17/26 0135

☒ Halt sampler program			
☒ Put lid on sample bottle; label sample bottle			
Sample ID:	260216-03	-WC	
Approx Sample Volume (mL):	12500		
Clarity (ex. Clear, Cloudy, Silty):	Cloudy		
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown		
QA/QC Sample ID:		-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/16/26 1921	Success	13	2/17/26 0022	Success
2	1942		14	0024	
3	2010		15	0026	
4	2047		16	0028	
5	2225		17	0030	
6	2345		18	0032	
7	2356		19	0034	
8	2/17/26 0003		20	0036	
9	0009		21	0038	
10	0013		22	0040	
11	0016		23	0042	
12	0019		24	0044	

Comments:

Date/Time Off-Site: 2/17/26 0144

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle, add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 2/17/26 0139
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Lucky
Personnel: KJ, SF

Bottle 2 **of** 2
Date/Time On-Site: 2/17/26 0518

☐ Halt sampler program			
☐ Put lid on sample bottle; label sample bottle			
Sample ID:	260216-03	-WC	
Approx Sample Volume (mL):	2000		
Clarity (ex. Clear, Cloudy, Silty):	Clear		
Color (ex. Clear, Gray, Tan, Brown, Black):	Clear		
QA/QC Sample ID:		-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/17/26 0202	Success	13		
2	0245	↓	14		
3	0329		15		
4	0404		16		
5			17		
6			18		
7			19		
8			20		
9			21		
10			22		
11			23		
12			24		

Comments:

Date/Time Off-Site: 2/17/26 0527

If sampling is complete:
- ☒ Power off sampler, if separate from flowmeter
- ☒ Keep flowmeter running
- ☒ Add ice to sample transport cooler

If continuing sampling (sample bottle change-out):
- ☐ Keep flowmeter running
- ☐ Install new 15L bottle; add ice
- ☐ Restart program from beginning

Date/Time Restarted: _____
- ☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Whitewater

SET UP

Personnel: ST, KJ

Date/Time On-Site: 2/16/26 1015

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0945	1.63	0.03	0.16	—
Enable Condition:	~~5.02"~~ KJ 2.6"			
Hysteresis:	1.00"			
Flow Pulse Interval:	801 cf			

On-Site

- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)

- ☒ Direct or Remote; Date/time 2/16/26 ~~0934~~ KJ 0935
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 2/16/26 1055

SHUT DOWN

Personnel: ST

Date/Time On-Site: 2/18/26 10:20

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
10:20	1.48	0.03	0.16	—
Downloaded to:	ST Laptop			

On-Site

- ☐ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)

- ☒ Direct or (Remote); Date/time 2/18 8:34
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 2/18/26 10:24

STATION: Whitewater **Bottle** 1 **of** 3

Personnel: KT, ST **Date/Time On-Site:** 2/17/26 0105

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260216-11	-WC
Approx Sample Volume (mL):	12500	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Black	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/16/26 1935	Success	13	2/17/26 0027	Success
2	2002		14	0030	
3	2026		15	0032	
4	2050		16	0034	
5	2111		17	0036	
6	2136		18	0038	
7	2208		19	0039	
8	2251		20	0041	
9	2340		21	0042	
10	2/17/26 0007		22	0044	
11	0017		23	0045	
12	0023		24	0046	

Comments:

Date/Time Off-Site: 2/17/26 0110

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 2/17/26 0107
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Whitewater **Bottle** 2 **of** 3

Personnel: KJ, ST **Date/Time On-Site:** 2/17/26 0225

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260216-11	-WC
Approx Sample Volume (mL):	13250	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Black	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/17/26 0107	Success	13	2/17/26 0125	Success
2	0108		14	0127	
3	0109		15	0129	
4	0111		16	0132	
5	0112		17	0135	
6	0113		18	0137	
7	0114		19	0140	
8	0116		20	0144	
9	0118		21	0147	
10	0120		22	0151	
11	0121		23	0155	
12	0123		24	0159	

Comments:

Date/Time Off-Site: 2/17/26 0232

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 2/17/26 0230
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Whitewater **Bottle** 3 **of** 3

Personnel: KS, ST **Date/Time On-Site:** 2/17/26 0543

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260216-11	-WC
Approx Sample Volume (mL):	5000	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/17/26 0230	Success	13		
2	0239		14		
3	0250		15		
4	0302		16		
5	0316		17		
6	0333		18		
7	0354		19		
8	0420		20		
9	0451		21		
10	0529		22		
11			23		
12			24		

Comments:

Date/Time Off-Site: 2/17/26 0551

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Main

SET UP

Personnel: KJ, ST

Date/Time On-Site: 2/16/26 1150

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1151	1.268	0.00	0.00	11.75

Enable Condition:	2.2"
Hysteresis:	1.00"
Flow Pulse Interval:	456 cf

On-Site

- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)

- ☒ Direct or Remote; Date/time NA
- ☒ Retrieve data and review recent flow history NA
- ☒ Change Wireless Power Control to Storm Event NA
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 2/16/26 1213

SHUT DOWN

Personnel: ST

Date/Time On-Site: 2/18/26 1207

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
12.07	1.281	0.01	0.10	11.42
	Downloaded to:	ST's USB		

On-Site

- ☐ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)

- ☒ Direct or Remote; Date/time 2/18/26 12:10
- ☒ Retrieve data
- ☐ Change Wireless Power Control to Dry Weather
- ☐ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☐ Enable Sampler: Never

Comments:

Date/Time Off-Site: 2/18/26 12:13

STATION: Main
Personnel: KJ, ST

Bottle 1 **of** 2
Date/Time On-Site: 2/17/26 0040

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260216-12	-WC
Approx Sample Volume (mL):	14000	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Black	
QA/QC Sample ID:		-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/16/26 1849	Success	13	2/17/26 0021	Success
2	1909		14	0023	
3	1932		15	0025	
4	1954		16	0027	
5	2113		17	0029	
6	2345		18	0031	
7	2356		19	0032	
8	2/17/26 0002		20	0033	
9	0007		21	0035	
10	0011		22	0036	
11	0015		23	0038	
12	0018		24	0037	

Comments:

Date/Time Off-Site: 2/17/26 0048

If sampling is complete:	If continuing sampling (sample bottle change-out):
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 2/17/26 0044
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	3.0"	3500 mL	5.5"	7250 mL	8.0"	11000 mL	10.5"	14750 mL
1.0"	800 mL	3.5"	4250 mL	6.0"	8000 mL	8.5"	11750 mL	11.0"	15500 mL
1.5"	1400 mL	4.0"	5000 mL	6.5"	8750 mL	9.0"	12500 mL	11.5"	16250 mL
2.0"	2000 mL	4.5"	5750 mL	7.0"	9500 mL	9.5"	13250 mL	After 12"	1" = 1500 mL
2.5"	2750 mL	5.0"	6500 mL	7.5"	10250 mL	10.0"	14000 mL	Lab min	8,000 mL

Composite Sample Collection

STATION: Main
Personnel: KJ, ST

Bottle 2 **of** 2
Date/Time On-Site: 2/17/26 0428

☑ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260216-12	-WC
Approx Sample Volume (mL):	2000	
Clarity (ex. Clear, Cloudy, Silty):	~~Clear~~ Silty	
Color (ex. Clear, Gray, Tan, Brown, Black):	Clear	
QA/QC Sample ID:		-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/17/26 0043	Success	13	2/17/26 0114	Unsuccessful - tubing disconnected
2	0045		14	0120	
3	0046		15	0129	
4	0048	Unsuccessful - tubing disconnected	16	0140	
5	0050		17	0155	
6	0051		18	0217	
7	0053		19	0300	
8	0056		20	0346	
9	0058		21		
10	0101		22		
11	0105		23		
12	0109		24		

Comments: The tubing inside the sampler disconnected. 2000mL of water in the comp bottle indicate 3 subsamples successfully went into the bottle, and the rest flowed into the sampler base.

Date/Time Off-Site: _____

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	3.0"	3500 mL	5.5"	7250 mL	8.0"	11000 mL	10.5"	14750 mL
1.0"	800 mL	3.5"	4250 mL	6.0"	8000 mL	8.5"	11750 mL	11.0"	15500 mL
1.5"	1400 mL	4.0"	5000 mL	6.5"	8750 mL	9.0"	12500 mL	11.5"	16250 mL
2.0"	2000 mL	4.5"	5750 mL	7.0"	9500 mL	9.5"	13250 mL	After 12"	1" = 1500 mL
2.5"	2750 mL	5.0"	6500 mL	7.5"	10250 mL	10.0"	14000 mL	Lab min	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Americana

SET UP

Personnel: KJ, ST

Date/Time On-Site: KJ 2/16/26 1130

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0940	3.958	0.552	1.121	11.78

Enable Condition:	5.02"
Hysteresis:	1.00"
Flow Pulse Interval:	2960 cf

On-Site

- [x] Check desiccant on flowmeter and sampler
- [x] Replace flowmeter battery, install sampler battery
- [x] Perform decon. cycle
- [x] Install 15L sample bottle, with ice
- [x] Leave bottle lid at site, in a clean re-sealable plastic bag
- [x] Set sampler program parameters
- [x] Check date/time on sampler
- [x] Verify all cable and tubing connections
- [x] Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)

- [x] Direct or Remote; Date/time 2/16/26 0934
- [x] Retrieve data and review recent flow history
- [x] Change Wireless Power Control to Storm Event
- [x] Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- [x] Enable Sampler: On Trigger, and set Sampler Enable equation
- [x] Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 2/16/26 1143

SHUT DOWN

Personnel: ST

Date/Time On-Site: 2/18/26 1139

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1139	4.126	0.834	1.592	11.62
	Downloaded to:	ST's laptop		

On-Site

- [x] Replace flowmeter battery
- [x] Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)

- [x] Direct or Remote; Date/time 2/18 8.29
- [x] Retrieve data
- [x] Change Wireless Power Control to Dry Weather
- [x] Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- [x] Enable Sampler: Never

Comments:

Date/Time Off-Site: 2/18/26 1143

STATION: Americana
Personnel: KS, ST

Bottle 1 **of** 3
Date/Time On-Site: 2/17/26 0053

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260216-14	-WC
Approx Sample Volume (mL):	14000	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Black	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/16/26 1851	Success	13	2/17/26 0003	Success
2	1911		14	0011	
3	1929		15	0017	
4	1947		16	0022	
5	2002		17	0026	
6	2019		18	0030	
7	2040		19	0033	
8	2105		20	0036	
9	2138		21	0039	
10	2221		22	0040	
11	2309		23	0043	
12	2344		24	0046	

Comments:

Date/Time Off-Site: 2/17/26 1159

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 2/17 0055
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Americana **Bottle** 2 **of** 3

Personnel: KS, ST **Date/Time On-Site:** 2/17/26 0253

☐ Halt sampler program		
☐ Put lid on sample bottle; label sample bottle		
Sample ID:	260216-14	-WC
Approx Sample Volume (mL):	11750	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Black	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/17/26 0056	Success	13	2/17/26 0180	Success
2	0058		14	0135	
3	0100		15	0142	
4	0102		16	0150	
5	0104		17	0157	
6	0107		18	0209	
7	0109		19	0221	
8	0112		20	0236	
9	0115		21	0254	Sample skipped
10	0118		22		
11	0121		23		
12	0125		24		

Comments:

Date/Time Off-Site: 2/17/26 0300

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 2/17/26 0256
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Ameriana **Bottle** 3 **of** 3

Personnel: VS, ST **Date/Time On-Site:** 2/17/26 0447

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260216--14	-WC
Approx Sample Volume (mL):	2750	
Clarity (ex. Clear, Cloudy, Silty):	Clear	
Color (ex. Clear, Gray, Tan, Brown, Black):	Clear	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/17/26 0316	Success	13		
2	0336	↓	14		
3	0356		15		
4	0421		16		
5			17		
6			18		
7			19		
8			20		
9			21		
10			22		
11			23		
12			24		

Comments:

Date/Time Off-Site: 2/17/26 0452

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
~~**2.5"**~~	~~2750 mL~~	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: AS-6

SET UP

Personnel: KJ, ST

Date/Time On-Site: 2/16/26 1106

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1111	-0.24	0.00	0.00	12.7

Enable Condition or Velocity Cutoff:	1.00"
Deadband:	1.00"
Trigger Volume:	16416 gal

- [x] Check desiccant on flowmeter and sampler
- [x] Install batteries on flowmeter and sampler
- [x] Perform decon. cycle
- [x] Install 15L sample bottle, with ice
- [x] Leave bottle lid at site, in a clean re-sealable plastic bag
- [x] Verify all cable and tubing connections
- [x] Check date and time on flowmeter and sampler
- [x] Set flowmeter program and sampler program parameters
- [x] Set logging interval to 1 minute
- [x] Start flowmeter program and sampler program
- [x] Verify running

Comments:

Date/Time Off-Site: 2/16/26 1120

SHUT DOWN

Personnel: ST

Date/Time On-Site: 2/18/26 10:30

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
10:30	-0.24	0.00	0.00	12.6

Downloaded to:	ST Flashdrive

If flow monitoring is complete:	**If continuing to monitor flow:**
[x] Halt program on flowmeter	☐ Replace flowmeter battery
[x] Download flowmeter data	☐ Reset logging interval to 15 minutes
[x] Remove flowmeter battery	☐ Change velocity cutoff to 0.02 fps
	☐ Start program
	☐ Verify running

Comments:

Date/Time Off-Site: 2/18/26 1037

STATION: AS-6 **Bottle** 1 **of** 2

Personnel: KS, ST **Date/Time On-Site:** 2/17/26 0157

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260216-206	-WC
Approx Sample Volume (mL):	14000	
Clarity (ex. Clear, Cloudy, Silty):	cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	brown	
QA/QC Sample ID:		-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/16/26 2101	Success	13	2/17/26 0057	Success
2	2/17/26 0003		14	0100	
3	0015		15	0103	
4	0023		16	0106	
5	0028		17	0110	
6	0032		18	0114	
7	0037		19	0118	
8	0042		20	0122	
9	0045		21	0127	
10	0048		22	0132	
11	0051		23	0138	
12	0054		24	0145	

Comments:

Date/Time Off-Site: 2/17/26 0206

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle, add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 2/17/26 0202
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: AS-6 **Bottle** 2 **of** 2

Personnel: KJ, ST **Date/Time On-Site:** 2/17/25 0415 0601

- [x] Halt sampler program
- [x] Put lid on sample bottle; label sample bottle

Sample ID:	260216-206	-WC
Approx Sample Volume (mL):	4100	
Clarity (ex. Clear, Cloudy, Silty):	Clear	
Color (ex. Clear, Gray, Tan, Brown, Black):	Clear	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	2/17/26 0215	Success	13		
2	↓ 0235	low pump volt	14		
3	↓ 0308	↓	15		
4			16		
5			17		
6			18		
7			19		
8			20		
9			21		
10			22		
11			23		
12			24		

Comments: Battery was replaced at 4:16 on 2/17, but no further subsamples were taken.

Date/Time Off-Site: 2/17/26 0606

If sampling is complete:
- [x] Power off sampler, if separate from flowmeter
- [x] Keep flowmeter running
- [x] Add ice to sample transport cooler

If continuing sampling (sample bottle change-out):
- [ ] Keep flowmeter running
- [ ] Install new 15L bottle; add ice
- [ ] Restart program from beginning

Date/Time Restarted: _____

- [ ] Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Attachment D: Storm Event Analytical Reports

Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00456-01	ACST1B	260216-03-WG	Water		2/16/26 19:36	2/17/26 6:42
AC00456-02	ACST1B	260216-03-101	Water		2/16/26 12:00	2/17/26 6:42
AC00456-03	ACST1B	260216-03-001	Water		2/16/26 12:00	2/17/26 6:42
AC00456-04	ACST1B	260216-11-WG	Water		2/16/26 20:21	2/17/26 6:42
AC00456-05	ACST1B	260216-12-WG	Water		2/16/26 19:23	2/17/26 6:42
AC00456-06	ACST1B	260216-14-WG	Water		2/16/26 19:43	2/17/26 6:42

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
No duplication of this report is allowed, except in its entirety

Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260216-03-WG
Date/Time Collected:	02/16/2026 19:36		
Lab Number:	AC00456-01	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260484	40.4	MPN/100 mL	1.0	1.0	IDEXX - Colilert	02/17/26 07:22	2/18/26 7:24	A.T	H
Wet Chemistry										
Chlorine Screen	B260487	Absent	mg/L			SM 4500-CL G-2000 mod	02/17/26	2/17/26 7:16	MEC	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260216-03-101
Date/Time Collected:	02/16/2026 12:00		
Lab Number:	AC00456-02	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260484	24.1	MPN/100 mL	1.0	1.0	IDEXX - Colilert	02/17/26 06:47	2/18/26 7:24	A.T	H
Wet Chemistry										
Chlorine Screen	B260487	Absent	mg/L			SM 4500-CL G-2000 mod	02/17/26	2/17/26 6:53	MEC	

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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260216-03-001
Date/Time Collected:	02/16/2026 12:00		
Lab Number:	AC00456-03	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260484	<1.0	MPN/100 mL	1.0	1.0	IDEXX - Colilert	02/17/26 06:59	2/18/26 7:24	A.T	H U
Wet Chemistry										
Chlorine Screen	B260487	Absent	mg/L			SM 4500-CL G-2000 mod	02/17/26	2/17/26 7:16	MEC	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260216-11-WG
Date/Time Collected:	02/16/2026 20:21		
Lab Number:	AC00456-04	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260484	88.2	MPN/100 mL	1.0	1.0	IDEXX - Colilert	02/17/26 07:22	2/18/26 7:24	A.T	H
Wet Chemistry										
Chlorine Screen	B260487	Absent	mg/L			SM 4500-CL G-2000 mod	02/17/26	2/17/26 7:16	MEC	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260216-12-WG
Date/Time Collected:	02/16/2026 19:23		
Lab Number:	AC00456-05	Sample Collector:	R.R.
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260484	23.1	MPN/100 mL	1.0	1.0	IDEXX - Colilert	02/17/26 06:47	2/18/26 7:24	A.T	H
Wet Chemistry										
Chlorine Screen	B260487	Absent	mg/L			SM 4500-CL G-2000 mod	02/17/26	2/17/26 6:53	MEC	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260216-14-WG
Date/Time Collected:	02/16/2026 19:43		
Lab Number:	AC00456-06	Sample Collector:	R.R.
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260484	46.5	MPN/100 mL	1.0	1.0	IDEXX - Colilert	02/17/26 06:59	2/18/26 7:24	A.T	H
Wet Chemistry										
Chlorine Screen	B260487	Absent	mg/L			SM 4500-CL G-2000 mod	02/17/26	2/17/26 7:16	MEC	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Microbiology									
Batch: B260484									
Blank (B260484-BLK1)									
E. Coli	Absent						02/18/2026	A.T	
LCS (B260484-BS1)									
E. Coli				Present			02/18/2026	A.T	
Duplicate (B260484-DUP1)	Source ID: AC00456-04								
E. Coli					Pass	128	02/18/2026	A.T	

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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Notes and Definitions

Item	Definition
H	Hold time Exceeded.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
No duplication of this report is allowed, except in its entirety

Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714–6418
Tel. (208) 407–4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristen Jolliffe
Steven Turner
Caden Lewis Ryan Rowe

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD$_5$ - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg – EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride – EPA 300.0	Total Containers
[illegible]-01	2/16/26		1936		260216-03-WG	ST	X	X												X						1
-02			1200 ~~2021~~		260216-03-101	ST	X	X												X						1
-03			1200		260216-03-001	ST	X	X												X						1
-04			2021		260216-11-WG	ST	X	X												X						1
-05			1923		260216-12-WG	RR	X	X												X						1
-06			1943		260216-14-WG	RR	X	X												X						1

Relinquished by (sign)	Date &Time Transferred	Received by (sign)	Comments/ Special Instructions
Kristen Jolliffe	2/16/26 2052	Kristen Jolliffe 2/16/26 2052	
Kristen Jolliffe	2/16/26 2115	2/17/26 0642	

#A00045[illegible]

Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00457-01	ACST1B	260216-206--WG	Water		2/16/26 20:12	2/17/26 6:42

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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260216-206--WG
Date/Time Collected:	02/16/2026 20:12		
Lab Number:	AC00457-01	Sample Collector:	R.R.
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260484	51.2	MPN/100 mL	1.0	1.0	IDEXX - Colilert	02/17/26 07:22	2/18/26 7:24	A.T	H
Wet Chemistry										
Chlorine Screen	B260487	Absent	mg/L			SM 4500-CL G-2000 mod	02/17/26	2/17/26 7:16	MEC	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Microbiology									
Batch: B260484									
Blank (B260484-BLK1)									
E. Coli	Absent						02/18/2026	A.T	
LCS (B260484-BS1)									
E. Coli				Present			02/18/2026	A.T	
Duplicate (B260484-DUP1)	Source ID: AC00456-04								
E. Coli					Pass	128	02/18/2026	A.T	

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
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Report Date: 02/18/2026 15:29

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Notes and Definitions

Item	Definition
H	Hold time Exceeded.
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
No duplication of this report is allowed, except in its entirety

Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristen Jolliffe
Ryan Rowe

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD$_5$ - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
AC00457-01	2/16/26		2012		260216-2016-WG	RR	X	X												X						1

Relinquished by (sign)	Date &Time Transferred	Received by (sign)	Comments/ Special Instructions
Kristen Jolliffe	2/16/26 ~~2115~~ 2115	~~2/16~~ 2/17/25 0642	

Report Date: 03/06/2026 13:45

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00458-01	ACST1C	260216-03-WC	Water		2/17/26 4:04	2/17/26 6:50
AC00458-02	ACST1C	260216-11-WC	Water		2/17/26 5:29	2/17/26 6:50
AC00458-03	ACST1C	260216-12-WC	Water		2/17/26 0:46	2/17/26 6:50
AC00458-04	ACST1C	260216-14-WC	Water		2/17/26 4:21	2/17/26 6:50

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document.
No duplication of this report is allowed, except in its entirety

Report Date: 03/06/2026 13:45

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1C	Location Description:	260216-03-WC
Date/Time Collected:	02/16/2026 19:21 - 02/17/2026 04:04		
Lab Number:	AC00458-01	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B260600	0.552	mg/L	0.0600	0.0600	Timberline Ammonia-001	03/02/26	3/2/26 11:44	ALN	
BOD5	B260492	12.5	mg/L	2.00	2.00	SM 5210 B-2016	02/17/26	2/22/26 8:17	LRF	
Chloride	B260563	2.10	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	02/23/26	2/23/26 15:56	BAK	
COD	B260493	127	mg/L	7.00	7.00	HH 8000, SM 5220D	02/17/26	2/17/26 12:12	LRF	
Nitrate-Nitrite, as N	B260625	0.392	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	02/27/26	2/27/26 11:07	JAL	
TKN	B260513	2.11	mg/L	0.250	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	02/19/26	2/20/26 11:49	EDM	D
Total Dissolved Solids	B260499	41.2	mg/L	25.0	25.0	SM 2540 C-2015	02/17/26	2/18/26 15:17	RHC	
Total Suspended Solids	B260488	98.1	mg/L	0.900	0.900	SM 2540 D-2015	02/17/26	2/17/26 10:53	GJW	
Turbidity	B260495	27.4	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	02/17/26	2/17/26 11:01	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260509	0.0963	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	02/18/26	2/18/26 13:04	EDM	
Total Metals										
Mercury	B260581	0.0205	ug/L	6.00E-3	6.00E-3	EPA 245.1	02/25/26	2/26/26 8:56	SAS	J
Arsenic	B260596	2.9	ug/L	0.050	0.050	EPA 200.8	02/25/26	2/26/26 15:14	DMW	
Cadmium	B260596	0.11	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:14	DMW	
Calcium	B260517	6.83	mg/L	0.0500	0.0500	EPA 200.7	02/20/26	2/25/26 12:09	SMC	
Lead	B260596	3.3	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:14	DMW	
Magnesium	B260517	1240	ug/L	40.0	40.0	EPA 200.7	02/20/26	2/25/26 12:09	SMC	
Phosphorus as P	B260517	0.329	mg/L	0.0110	0.0110	EPA 200.7	02/20/26	2/25/26 12:09	SMC	
Hardness	B260517	22.1	mg/L	0.125	0.125	SM 2340 B-2011	02/20/26	2/25/26 12:09	SMC	
Dissolved Metals										
Cadmium	B260542	<0.010	ug/L	0.010	0.010	EPA 200.8	02/20/26	2/20/26 17:04	DMW	U
Copper	B260542	1.9	ug/L	0.14	0.14	EPA 200.8	02/20/26	2/20/26 17:04	DMW	
Lead	B260542	0.092	ug/L	5.00E-3	5.00E-3	EPA 200.8	02/20/26	2/20/26 17:04	DMW	
Zinc	B260542	15.4	ug/L	0.50	0.50	EPA 200.8	02/20/26	2/20/26 17:04	DMW	

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Report Date: 03/06/2026 13:45

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
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Analysis Report

Location:	ACST1C	Location Description:	260216-11-WC
Date/Time Collected:	02/16/2026 19:35 - 02/17/2026 05:29		
Lab Number:	AC00458-02	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B260600	0.496	mg/L	0.0600	0.0600	Timberline Ammonia-001	03/02/26	3/2/26 12:05	ALN	
BOD5	B260492	13.0	mg/L	2.00	2.00	SM 5210 B-2016	02/17/26	2/22/26 8:26	LRF	
Chloride	B260563	23.8	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	02/23/26	2/23/26 16:21	BAK	
COD	B260493	111	mg/L	7.00	7.00	HH 8000, SM 5220D	02/17/26	2/17/26 12:12	LRF	
Nitrate-Nitrite, as N	B260625	0.592	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	02/27/26	2/27/26 11:12	JAL	
TKN	B260513	2.28	mg/L	0.250	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	02/19/26	2/20/26 11:50	EDM	D
Total Dissolved Solids	B260499	104	mg/L	25.0	25.0	SM 2540 C-2015	02/17/26	2/18/26 15:18	RHC	
Total Suspended Solids	B260488	90.8	mg/L	0.900	0.900	SM 2540 D-2015	02/17/26	2/17/26 11:28	GJW	
Turbidity	B260495	29.5	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	02/17/26	2/17/26 11:17	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260509	0.170	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	02/18/26	2/18/26 13:05	EDM	
Total Metals										
Mercury	B260581	0.0172	ug/L	6.00E-3	6.00E-3	EPA 245.1	02/25/26	2/26/26 8:59	SAS	J
Arsenic	B260596	2.1	ug/L	0.050	0.050	EPA 200.8	02/25/26	2/26/26 15:24	DMW	
Cadmium	B260596	0.082	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:24	DMW	
Calcium	B260517	13.2	mg/L	0.0500	0.0500	EPA 200.7	02/20/26	2/25/26 12:26	SMC	
Lead	B260596	6.4	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:24	DMW	
Magnesium	B260517	2970	ug/L	40.0	40.0	EPA 200.7	02/20/26	2/25/26 12:26	SMC	
Phosphorus as P	B260517	0.379	mg/L	0.0110	0.0110	EPA 200.7	02/20/26	2/25/26 12:26	SMC	
Hardness	B260517	45.3	mg/L	0.125	0.125	SM 2340 B-2011	02/20/26	2/25/26 12:26	SMC	
Dissolved Metals										
Cadmium	B260542	<0.010	ug/L	0.010	0.010	EPA 200.8	02/20/26	2/20/26 17:14	DMW	U
Copper	B260542	2.4	ug/L	0.14	0.14	EPA 200.8	02/20/26	2/20/26 17:14	DMW	
Lead	B260542	0.13	ug/L	5.00E-3	5.00E-3	EPA 200.8	02/20/26	2/20/26 17:14	DMW	
Zinc	B260542	10.7	ug/L	0.50	0.50	EPA 200.8	02/20/26	2/20/26 17:14	DMW	

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Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
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Analysis Report

Location:	ACST1C	Location Description:	260216-12-WC
Date/Time Collected:	02/16/2026 18:49 - 02/17/2026 00:46		
Lab Number:	AC00458-03	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B260600	0.831	mg/L	0.0600	0.0600	Timberline Ammonia-001	03/02/26	3/2/26 11:37	ALN	
BOD5	B260492	10.9	mg/L	2.00	2.00	SM 5210 B-2016	02/17/26	2/22/26 8:36	LRF	
Chloride	B260563	16.2	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	02/23/26	2/23/26 16:46	BAK	
COD	B260493	125	mg/L	7.00	7.00	HH 8000, SM 5220D	02/17/26	2/17/26 12:12	LRF	
Nitrate-Nitrite, as N	B260625	0.405	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	02/27/26	2/27/26 11:13	JAL	
TKN	B260513	1.83	mg/L	0.250	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	02/19/26	2/20/26 11:52	EDM	D
Total Dissolved Solids	B260499	62.3	mg/L	25.0	25.0	SM 2540 C-2015	02/17/26	2/18/26 15:20	RHC	
Total Suspended Solids	B260488	111	mg/L	0.900	0.900	SM 2540 D-2015	02/17/26	2/17/26 11:30	GJW	
Turbidity	B260495	33.9	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	02/17/26	2/17/26 10:42	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260509	0.0511	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	02/18/26	2/18/26 13:06	EDM	
Total Metals										
Mercury	B260581	0.0158	ug/L	6.00E-3	6.00E-3	EPA 245.1	02/25/26	2/26/26 9:03	SAS	J
Arsenic	B260596	1.7	ug/L	0.050	0.050	EPA 200.8	02/25/26	2/26/26 15:26	DMW	
Cadmium	B260596	0.13	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:26	DMW	
Calcium	B260517	6.32	mg/L	0.0500	0.0500	EPA 200.7	02/20/26	2/25/26 12:29	SMC	
Lead	B260596	9.4	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:26	DMW	
Magnesium	B260517	1860	ug/L	40.0	40.0	EPA 200.7	02/20/26	2/25/26 12:29	SMC	
Phosphorus as P	B260517	0.189	mg/L	0.0110	0.0110	EPA 200.7	02/20/26	2/25/26 12:29	SMC	
Hardness	B260517	23.4	mg/L	0.125	0.125	SM 2340 B-2011	02/20/26	2/25/26 12:29	SMC	
Dissolved Metals										
Cadmium	B260542	0.012	ug/L	0.010	0.010	EPA 200.8	02/20/26	2/20/26 17:17	DMW	
Copper	B260542	2.7	ug/L	0.14	0.14	EPA 200.8	02/20/26	2/20/26 17:17	DMW	
Lead	B260542	0.058	ug/L	5.00E-3	5.00E-3	EPA 200.8	02/20/26	2/20/26 17:17	DMW	
Zinc	B260542	22.5	ug/L	0.50	0.50	EPA 200.8	02/20/26	2/20/26 17:17	DMW	

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Water Quality Laboratory
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Boise, Idaho 83714-1076
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Analysis Report

Location:	ACST1C	Location Description:	260216-14-WC
Date/Time Collected:	02/16/2026 18:51 - 02/17/2026 04:21		
Lab Number:	AC00458-04	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B260600	0.509	mg/L	0.0600	0.0600	Timberline Ammonia-001	03/02/26	3/2/26 12:01	ALN	
BOD5	B260492	10.8	mg/L	2.00	2.00	SM 5210 B-2016	02/17/26	2/22/26 8:45	LRF	
Chloride	B260563	49.2	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	02/23/26	2/23/26 18:26	BAK	
COD	B260493	88.0	mg/L	7.00	7.00	HH 8000, SM 5220D	02/17/26	2/17/26 12:12	LRF	
Nitrate-Nitrite, as N	B260625	0.858	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	02/27/26	2/27/26 11:15	JAL	
TKN	B260513	1.76	mg/L	0.250	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	02/19/26	2/20/26 11:53	EDM	D
Total Dissolved Solids	B260499	164	mg/L	25.0	25.0	SM 2540 C-2015	02/17/26	2/18/26 15:21	RHC	
Total Suspended Solids	B260488	76.3	mg/L	0.900	0.900	SM 2540 D-2015	02/17/26	2/17/26 11:35	GJW	
Turbidity	B260495	24.0	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	02/17/26	2/17/26 11:11	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260509	0.104	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	02/18/26	2/18/26 13:07	EDM	
Total Metals										
Mercury	B260581	0.0156	ug/L	6.00E-3	6.00E-3	EPA 245.1	02/25/26	2/26/26 8:42	SAS	J
Arsenic	B260596	2.9	ug/L	0.050	0.050	EPA 200.8	02/25/26	2/26/26 15:29	DMW	
Cadmium	B260596	0.084	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:29	DMW	
Calcium	B260517	22.9	mg/L	0.0500	0.0500	EPA 200.7	02/20/26	2/25/26 12:32	SMC	
Lead	B260596	5.2	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:29	DMW	
Magnesium	B260517	4440	ug/L	40.0	40.0	EPA 200.7	02/20/26	2/25/26 12:32	SMC	
Phosphorus as P	B260517	0.244	mg/L	0.0110	0.0110	EPA 200.7	02/20/26	2/25/26 12:32	SMC	
Hardness	B260517	75.5	mg/L	0.125	0.125	SM 2340 B-2011	02/20/26	2/25/26 12:32	SMC	
Dissolved Metals										
Cadmium	B260542	0.013	ug/L	0.010	0.010	EPA 200.8	02/20/26	2/20/26 17:19	DMW	
Copper	B260542	2.7	ug/L	0.14	0.14	EPA 200.8	02/20/26	2/20/26 17:19	DMW	
Lead	B260542	0.076	ug/L	5.00E-3	5.00E-3	EPA 200.8	02/20/26	2/20/26 17:19	DMW	
Zinc	B260542	16.0	ug/L	0.50	0.50	EPA 200.8	02/20/26	2/20/26 17:19	DMW	

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Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
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Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry									
Batch: B260488									
Blank (B260488-BLK1)									
Total Suspended Solids	<0.9	mg/L					02/17/2026	GJW	U
LCS (B260488-BS1)									
Total Suspended Solids			95.9	90-110			02/17/2026	GJW	
Duplicate (B260488-DUP1)	Source ID: AC00458-01								
Total Suspended Solids					7.59	20	02/17/2026	GJW	
Batch: B260492									
Blank (B260492-BLK1)									
BOD5	<2	mg/L					02/22/2026	LRF	U
LCS (B260492-BS1)									
BOD5			99.2	84.6-115.4			02/22/2026	LRF	
LCS (B260492-BS2)									
BOD5			99.0	84.6-115.4			02/22/2026	LRF	
Duplicate (B260492-DUP1)	Source ID: LS02640-02								
BOD5					4.75	30	02/22/2026	LRF	
Batch: B260493									
Blank (B260493-BLK1)									
COD	<7	mg/L					02/17/2026	LRF	U
LCS (B260493-BS1)									
COD			101	90-110			02/17/2026	LRF	
Duplicate (B260493-DUP1)	Source ID: AC00458-01								
COD					1.56	10	02/17/2026	LRF	
Batch: B260495									
Blank (B260495-BLK1)									
Turbidity	<0.3	NTU					02/17/2026	ALN	U
LCS (B260495-BS1)									
Turbidity			102	90-110			02/17/2026	ALN	
Duplicate (B260495-DUP1)	Source ID: AC00458-01								
Turbidity					0.977	25	02/17/2026	ALN	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B260499									
Blank (B260499-BLK1)									
Total Dissolved Solids	<25	mg/L					02/18/2026	RHC	U
LCS (B260499-BS1)									
Total Dissolved Solids			101	90-110			02/18/2026	RHC	
Duplicate (B260499-DUP1) Source ID: AC00458-02									
Total Dissolved Solids					1.94	10	02/18/2026	RHC	
Batch: B260513									
Blank (B260513-BLK1)									
TKN	<0.1	mg/L					02/20/2026	EDM	U
LCS (B260513-BS1)									
TKN			108	80-120			02/20/2026	EDM	
Duplicate (B260513-DUP1) Source ID: BB05441-02									
TKN					0.127	20	02/20/2026	EDM	D
Duplicate (B260513-DUP2) Source ID: EP00537-01									
TKN					1.99	20	02/20/2026	EDM	D
Duplicate (B260513-DUP3) Source ID: LS02636-02									
TKN					0.872	20	02/20/2026	EDM	D
Matrix Spike (B260513-MS1) Source ID: BB05441-02									
TKN			113	80-120			02/20/2026	EDM	D
Matrix Spike (B260513-MS2) Source ID: EP00537-01									
TKN			108	80-120			02/20/2026	EDM	D
Matrix Spike (B260513-MS3) Source ID: LS02636-02									
TKN			124	80-120			02/20/2026	EDM	QC-05, D
Matrix Spike (B260513-MS4) Source ID: EP00533-01									
TKN			107	80-120			02/20/2026	EDM	D
Matrix Spike Dup (B260513-MSD1) Source ID: BB05441-02									
TKN			120	80-120	2.03	20	02/20/2026	EDM	M-09, D
Matrix Spike Dup (B260513-MSD2) Source ID: EP00537-01									
TKN			94.8	80-120	9.43	20	02/20/2026	EDM	D
Matrix Spike Dup (B260513-MSD3) Source ID: LS02636-02									
TKN			110	80-120	4.63	20	02/20/2026	EDM	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B260563									
Blank (B260563-BLK1)									
Chloride	<0.5	mg/L					02/23/2026	BAK	U
LCS (B260563-BS1)									
Chloride			94.3	90-110			02/23/2026	BAK	
Duplicate (B260563-DUP2) Source ID: AC00458-03									
Chloride					0.347	10	02/23/2026	BAK	
Duplicate (B260563-DUP3) Source ID: WQ00321-05RE1									
Chloride					0.386	10	02/24/2026	BAK	D
Matrix Spike (B260563-MS2) Source ID: AC00458-03									
Chloride			97.3	90-110			02/23/2026	BAK	
Matrix Spike (B260563-MS3) Source ID: WQ00321-05RE1									
Chloride			94.5	90-110			02/24/2026	BAK	D
Matrix Spike Dup (B260563-MSD2) Source ID: AC00458-03									
Chloride			94.6	90-110	1.71	10	02/23/2026	BAK	
Matrix Spike Dup (B260563-MSD3) Source ID: WQ00321-05RE1									
Chloride			99.5	90-110	1.96	10	02/24/2026	BAK	D
Batch: B260600									
Blank (B260600-BLK1)									
Ammonia, as N	<0.06	mg/L					03/02/2026	ALN	U
Blank (B260600-BLK2)									
Ammonia, as N	<0.06	mg/L					03/02/2026	ALN	U
LCS (B260600-BS1)									
Ammonia, as N			109	90-110			03/02/2026	ALN	
LCS (B260600-BS2)									
Ammonia, as N			105	90-110			03/02/2026	ALN	
Duplicate (B260600-DUP1) Source ID: BB05441-02									
Ammonia, as N					0.402	20	03/02/2026	ALN	D
Duplicate (B260600-DUP2) Source ID: WB04233-07									
Ammonia, as N					0.480	20	03/02/2026	ALN	D
Matrix Spike (B260600-MS1) Source ID: BB05441-02									
Ammonia, as N			114	84-115			03/02/2026	ALN	D
Matrix Spike (B260600-MS2) Source ID: WB04233-07									
Ammonia, as N			116	84-115			03/02/2026	ALN	Cust-01, M-09, D
Matrix Spike (B260600-MS3) Source ID: EP00533-01									
Ammonia, as N			106	84-115			03/02/2026	ALN	D
Matrix Spike (B260600-MS5) Source ID: EP00537-01									
Ammonia, as N			116	84-115			03/02/2026	ALN	QC-03
Matrix Spike (B260600-MS6) Source ID: EP00536-01RE1									
Ammonia, as N			114	84-115			03/02/2026	ALN	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B260600 (Continued)									
Matrix Spike Dup (B260600-MSD1) Source ID: BB05441-02									
Ammonia, as N			118	84-115	1.92	20	03/02/2026	ALN	Cust-01, M-09, D
Matrix Spike Dup (B260600-MSD2) Source ID: WB04233-07									
Ammonia, as N			115	84-115	0.433	20	03/02/2026	ALN	D
Batch: B260625									
Blank (B260625-BLK1)									
Nitrate-Nitrite, as N	<0.025	mg/L					02/27/2026	JAL	U
Blank (B260625-BLK2)									
Nitrate-Nitrite, as N	<0.025	mg/L					02/27/2026	JAL	U
LCS (B260625-BS1)									
Nitrate-Nitrite, as N			101	90-110			02/27/2026	JAL	
LCS (B260625-BS2)									
Nitrate-Nitrite, as N			97.5	90-110			02/27/2026	JAL	
Duplicate (B260625-DUP1) Source ID: AC00458-01									
Nitrate-Nitrite, as N					3.33	10	02/27/2026	JAL	
Duplicate (B260625-DUP2) Source ID: BB05454-02									
Nitrate-Nitrite, as N					0.0773	10	02/27/2026	JAL	
Duplicate (B260625-DUP3) Source ID: BB05458-01									
Nitrate-Nitrite, as N					1.05	10	02/27/2026	JAL	
Duplicate (B260625-DUP4) Source ID: LS02642-02									
Nitrate-Nitrite, as N					0.0631	10	02/27/2026	JAL	
Duplicate (B260625-DUP5) Source ID: WB04228-06RE1									
Nitrate-Nitrite, as N					17.6	10	02/27/2026	JAL	QC-02
Matrix Spike (B260625-MS1) Source ID: AC00458-01									
Nitrate-Nitrite, as N			94.2	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS2) Source ID: BB05454-02									
Nitrate-Nitrite, as N			97.2	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS3) Source ID: BB05458-01									
Nitrate-Nitrite, as N			95.7	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS4) Source ID: LS02642-02									
Nitrate-Nitrite, as N			96.7	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS5) Source ID: WB04228-06RE1									
Nitrate-Nitrite, as N			93.5	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS6) Source ID: WQ00321-03									
Nitrate-Nitrite, as N			97.1	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS7) Source ID: WQ00321-04									
Nitrate-Nitrite, as N			95.2	90-110			02/27/2026	JAL	
Matrix Spike Dup (B260625-MSD1) Source ID: AC00458-01									
Nitrate-Nitrite, as N			93.4	90-110	0.563	10	02/27/2026	JAL	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B260625 (Continued)									
Matrix Spike Dup (B260625-MSD2) Source ID: BB05454-02									
Nitrate-Nitrite, as N			97.2	90-110	0.0390	10	02/27/2026	JAL	
Matrix Spike Dup (B260625-MSD3) Source ID: BB05458-01									
Nitrate-Nitrite, as N			95.4	90-110	0.144	10	02/27/2026	JAL	
Matrix Spike Dup (B260625-MSD4) Source ID: LS02642-02									
Nitrate-Nitrite, as N			95.9	90-110	0.266	10	02/27/2026	JAL	
Matrix Spike Dup (B260625-MSD5) Source ID: WB04228-06RE1									
Nitrate-Nitrite, as N			92.0	90-110	1.45	10	02/27/2026	JAL	
Dissolved Wet Chemistry									
Batch: B260509									
Blank (B260509-BLK1)									
Orthophosphate, as P	<0.003	mg/L					02/18/2026	EDM	U
LCS (B260509-BS1)									
Orthophosphate, as P			97.8	90-110			02/18/2026	EDM	
Duplicate (B260509-DUP1) Source ID: AC00458-04									
Orthophosphate, as P					0.273	10	02/18/2026	EDM	
Duplicate (B260509-DUP2) Source ID: LS02642-07									
Orthophosphate, as P					0.0830	10	02/18/2026	EDM	D
Matrix Spike (B260509-MS1) Source ID: AC00458-04									
Orthophosphate, as P			98.2	90-110			02/18/2026	EDM	
Matrix Spike (B260509-MS2) Source ID: LS02642-07									
Orthophosphate, as P			97.7	90-110			02/18/2026	EDM	D
Matrix Spike Dup (B260509-MSD1) Source ID: AC00458-04									
Orthophosphate, as P			98.8	90-110	0.284	10	02/18/2026	EDM	
Matrix Spike Dup (B260509-MSD2) Source ID: LS02642-07									
Orthophosphate, as P			97.8	90-110	0.0351	10	02/18/2026	EDM	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals									
Batch: B260517									
Blank (B260517-BLK1)									
Calcium	<0.05	mg/L					02/25/2026	SMC	U
Magnesium	<40	ug/L					02/25/2026	SMC	U
Phosphorus as P	<0.011	mg/L					02/25/2026	SMC	U
LCS (B260517-BS1)									
Calcium			97.6	85-115			02/25/2026	SMC	
Magnesium			99.4	85-115			02/25/2026	SMC	
Phosphorus as P			104	85-115			02/25/2026	SMC	
Duplicate (B260517-DUP1) Source ID: AC00458-01									
Calcium					0.0783	20	02/25/2026	SMC	
Magnesium					2.73	20	02/25/2026	SMC	
Phosphorus as P					1.71	20	02/25/2026	SMC	
Duplicate (B260517-DUP2) Source ID: AC00459-01									
Calcium					1.17	20	02/25/2026	SMC	
Magnesium					4.83	20	02/25/2026	SMC	
Phosphorus as P					1.05	20	02/25/2026	SMC	
Matrix Spike (B260517-MS1) Source ID: AC00458-01									
Calcium			99.1	70-130			02/25/2026	SMC	
Magnesium			100	70-130			02/25/2026	SMC	
Phosphorus as P			104	70-130			02/25/2026	SMC	
Matrix Spike (B260517-MS2) Source ID: AC00459-01									
Calcium			101	70-130			02/25/2026	SMC	
Magnesium			101	70-130			02/25/2026	SMC	
Phosphorus as P			107	70-130			02/25/2026	SMC	
Matrix Spike Dup (B260517-MSD1) Source ID: AC00458-01									
Calcium			99.5	70-130	0.243	20	02/25/2026	SMC	
Magnesium			101	70-130	0.586	20	02/25/2026	SMC	
Phosphorus as P			106	70-130	1.41	20	02/25/2026	SMC	
Matrix Spike Dup (B260517-MSD2) Source ID: AC00459-01									
Calcium			102	70-130	0.260	20	02/25/2026	SMC	
Magnesium			100	70-130	0.125	20	02/25/2026	SMC	
Phosphorus as P			108	70-130	0.284	20	02/25/2026	SMC	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals (Continued)									
Batch: B260581									
Blank (B260581-BLK1)									
Mercury	<0.006	ug/L					02/26/2026	SAS	U
LCS (B260581-BS1)									
Mercury			100	85-115			02/26/2026	SAS	
Duplicate (B260581-DUP1) Source ID: AC00458-04									
Mercury					9.10	20	02/26/2026	SAS	J
Duplicate (B260581-DUP2) Source ID: EP00541-01									
Mercury					1.47	20	02/26/2026	SAS	J
Matrix Spike (B260581-MS1) Source ID: AC00458-04									
Mercury			99.3	70-130			02/26/2026	SAS	
Matrix Spike (B260581-MS2) Source ID: EP00541-01									
Mercury			99.3	70-130			02/26/2026	SAS	
Matrix Spike Dup (B260581-MSD1) Source ID: AC00458-04									
Mercury			98.9	70-130	0.349	20	02/26/2026	SAS	
Matrix Spike Dup (B260581-MSD2) Source ID: EP00541-01									
Mercury			99.8	70-130	0.448	20	02/26/2026	SAS	
Batch: B260596									
Blank (B260596-BLK1)									
Arsenic	<0.050	ug/L					02/26/2026	DMW	U
Cadmium	<0.010	ug/L					02/26/2026	DMW	U
Lead	<0.010	ug/L					02/26/2026	DMW	U
LCS (B260596-BS1)									
Arsenic			95.6	85-115			02/26/2026	DMW	
Cadmium			100	85-115			02/26/2026	DMW	
Lead			101	85-115			02/26/2026	DMW	
Duplicate (B260596-DUP1) Source ID: AC00458-01									
Arsenic					0.541	20	02/26/2026	DMW	
Cadmium					6.42	20	02/26/2026	DMW	
Lead					2.83	20	02/26/2026	DMW	
Matrix Spike (B260596-MS1) Source ID: AC00458-01									
Arsenic			94.6	70-130			02/26/2026	DMW	
Cadmium			97.1	70-130			02/26/2026	DMW	
Lead			97.4	70-130			02/26/2026	DMW	
Matrix Spike Dup (B260596-MSD1) Source ID: AC00458-01									
Arsenic			94.5	70-130	0.0822	20	02/26/2026	DMW	
Cadmium			97.9	70-130	0.738	20	02/26/2026	DMW	
Lead			99.2	70-130	1.37	20	02/26/2026	DMW	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Metals									
Batch: B260542									
Blank (B260542-BLK1)									
Cadmium	<0.010	ug/L					02/20/2026	DMW	U
Copper	<0.14	ug/L					02/20/2026	DMW	U
Lead	<0.0050	ug/L					02/20/2026	DMW	U
Zinc	<0.50	ug/L					02/20/2026	DMW	U
LCS (B260542-BS1)									
Cadmium			102	85-115			02/20/2026	DMW	
Copper			98.0	85-115			02/20/2026	DMW	
Lead			103	85-115			02/20/2026	DMW	
Zinc			98.2	85-115			02/20/2026	DMW	
Duplicate (B260542-DUP1) Source ID: AC00458-01									
Cadmium					NR	10	02/20/2026	DMW	U
Copper					0.562	10	02/20/2026	DMW	
Lead					0.444	10	02/20/2026	DMW	
Zinc					1.56	10	02/20/2026	DMW	
Matrix Spike (B260542-MS1) Source ID: AC00458-01									
Cadmium			97.6	70-130			02/20/2026	DMW	
Copper			93.9	70-130			02/20/2026	DMW	
Lead			97.5	70-130			02/20/2026	DMW	
Zinc			93.2	70-130			02/20/2026	DMW	
Matrix Spike Dup (B260542-MSD1) Source ID: AC00458-01									
Cadmium			97.5	70-130	0.177	10	02/20/2026	DMW	
Copper			92.7	70-130	1.08	10	02/20/2026	DMW	
Lead			97.6	70-130	0.0395	10	02/20/2026	DMW	
Zinc			92.9	70-130	0.157	10	02/20/2026	DMW	

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Report Date: 03/06/2026 13:45

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Notes and Definitions

Item	Definition
Cust-01	Confirmation analysis resulted is passing recovery.
D	Data reported from a dilution
J	Estimated value
M-09	At least one Matrix Spike recovers within the acceptance criteria for the analyte. Matrix interference for the analyte is not suspected in reported result.
QC-02	The RPD is greater than the method acceptance criteria. At least one of the values used to calculate the RPD, is less than or equal to the PQL.
QC-03	The matrix spike recovery is outside the method acceptance limits; a matrix interferent was present and could not be corrected.
QC-05	The spike recovery of either the MS or MSD is outside method acceptance limits. The batch was accepted because the LCS is within method acceptance criteria.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristen Jolliffe
Steven Turner

Lab# AC60458	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD$_5$ - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
-01	2/16/26	2/17/26	1921	0404	260216-03-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	2
-02	2/16/26	2/17/26	1935	0529	260216-11-WC	KJ	X		X																	3
-03	2/16/26	2/17/26	1849	0046	260216-12-WC	KJ	X		X																	2
-04	2/17/26	2/17/26	1851	0421	260216-14-WC	KJ	X		X																	3

Relinquished by (sign)	Date &Time Transferred	Received by (sign)
Kristen Jolliffe	2/17/26 0645	2/17/26 0650

Comments/ Special Instructions

260216-03-WC — 1 of 2 1.4°C — 2 of 2 2.6°C
~~1 of 2 1.4°C 2 of 2 ICE has small layer ice 0.8°C AMO~~
260216-11-WC — 1 of 3 1.8°C — 2 of 3 2.4°C — 3 of 3 2.6°C
1 of 2 1.8°C — 2 of 2 0.5°C — 260216-12-WC
260216-14-WC — 1 of 3 4.3°C — 2 of 3 3.6°C — 3 of 3 1.5°C

AC60458

Report Date: 03/06/2026 13:44

Boise City Public Works
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Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00459-01	ACST1C	260216-206-WC	Water		2/17/26 2:15	2/17/26 6:50

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Analysis Report

Location:	ACST1C	Location Description:	260216-206-WC
Date/Time Collected:	02/16/2026 21:01 - 02/17/2026 02:15		
Lab Number:	AC00459-01	Sample Collector:	K.J
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B260600	0.526	mg/L	0.0600	0.0600	Timberline Ammonia-001	03/02/26	3/2/26 11:40	ALN	
BOD5	B260492	16.9	mg/L	2.00	2.00	SM 5210 B-2016	02/17/26	2/22/26 8:55	LRF	
Chloride	B260563	8.03	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	02/23/26	2/23/26 18:51	BAK	
COD	B260493	381	mg/L	7.00	7.00	HH 8000, SM 5220D	02/17/26	2/17/26 12:12	LRF	
Nitrate-Nitrite, as N	B260625	0.303	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	02/27/26	2/27/26 11:16	JAL	
TKN	B260513	2.67	mg/L	0.250	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	02/19/26	2/20/26 11:54	EDM	D
Total Dissolved Solids	B260499	62.0	mg/L	25.0	25.0	SM 2540 C-2015	02/17/26	2/18/26 15:22	RHC	
Total Suspended Solids	B260488	121	mg/L	0.900	0.900	SM 2540 D-2015	02/17/26	2/17/26 11:36	GJW	
Turbidity	B260495	20.8	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	02/17/26	2/17/26 10:49	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260509	0.230	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	02/18/26	2/18/26 13:11	EDM	
Total Metals										
Mercury	B260581	0.0202	ug/L	6.00E-3	6.00E-3	EPA 245.1	02/25/26	2/26/26 9:23	SAS	J
Arsenic	B260596	2.7	ug/L	0.050	0.050	EPA 200.8	02/25/26	2/26/26 15:31	DMW	
Cadmium	B260596	0.10	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:31	DMW	
Calcium	B260517	5.54	mg/L	0.0500	0.0500	EPA 200.7	02/20/26	2/25/26 13:31	SMC	
Lead	B260596	10.5	ug/L	0.010	0.010	EPA 200.8	02/25/26	2/26/26 15:31	DMW	
Magnesium	B260517	1490	ug/L	40.0	40.0	EPA 200.7	02/20/26	2/25/26 13:31	SMC	
Phosphorus as P	B260517	0.478	mg/L	0.0110	0.0110	EPA 200.7	02/20/26	2/25/26 13:31	SMC	
Hardness	B260517	20.0	mg/L	0.125	0.125	SM 2340 B-2011	02/20/26	2/25/26 13:31	SMC	
Dissolved Metals										
Cadmium	B260542	0.010	ug/L	0.010	0.010	EPA 200.8	02/20/26	2/20/26 17:22	DMW	
Copper	B260542	3.5	ug/L	0.14	0.14	EPA 200.8	02/20/26	2/20/26 17:22	DMW	
Lead	B260542	0.32	ug/L	5.00E-3	5.00E-3	EPA 200.8	02/20/26	2/20/26 17:22	DMW	
Zinc	B260542	10.3	ug/L	0.50	0.50	EPA 200.8	02/20/26	2/20/26 17:22	DMW	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry									
Batch: B260488									
Blank (B260488-BLK1)									
Total Suspended Solids	<0.9	mg/L					02/17/2026	GJW	U
LCS (B260488-BS1)									
Total Suspended Solids			95.9	90-110			02/17/2026	GJW	
Duplicate (B260488-DUP1)	Source ID: AC00458-01								
Total Suspended Solids					7.59	20	02/17/2026	GJW	
Batch: B260492									
Blank (B260492-BLK1)									
BOD5	<2	mg/L					02/22/2026	LRF	U
LCS (B260492-BS1)									
BOD5			99.2	84.6-115.4			02/22/2026	LRF	
LCS (B260492-BS2)									
BOD5			99.0	84.6-115.4			02/22/2026	LRF	
Duplicate (B260492-DUP1)	Source ID: LS02640-02								
BOD5					4.75	30	02/22/2026	LRF	
Batch: B260493									
Blank (B260493-BLK1)									
COD	<7	mg/L					02/17/2026	LRF	U
LCS (B260493-BS1)									
COD			101	90-110			02/17/2026	LRF	
Duplicate (B260493-DUP1)	Source ID: AC00458-01								
COD					1.56	10	02/17/2026	LRF	
Batch: B260495									
Blank (B260495-BLK1)									
Turbidity	<0.3	NTU					02/17/2026	ALN	U
LCS (B260495-BS1)									
Turbidity			102	90-110			02/17/2026	ALN	
Duplicate (B260495-DUP1)	Source ID: AC00458-01								
Turbidity					0.977	25	02/17/2026	ALN	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B260499									
Blank (B260499-BLK1)									
Total Dissolved Solids	<25	mg/L					02/18/2026	RHC	U
LCS (B260499-BS1)									
Total Dissolved Solids			101	90-110			02/18/2026	RHC	
Duplicate (B260499-DUP1) Source ID: AC00458-02									
Total Dissolved Solids					1.94	10	02/18/2026	RHC	
Batch: B260513									
Blank (B260513-BLK1)									
TKN	<0.1	mg/L					02/20/2026	EDM	U
LCS (B260513-BS1)									
TKN			108	80-120			02/20/2026	EDM	
Duplicate (B260513-DUP1) Source ID: BB05441-02									
TKN					0.127	20	02/20/2026	EDM	D
Duplicate (B260513-DUP2) Source ID: EP00537-01									
TKN					1.99	20	02/20/2026	EDM	D
Duplicate (B260513-DUP3) Source ID: LS02636-02									
TKN					0.872	20	02/20/2026	EDM	D
Matrix Spike (B260513-MS1) Source ID: BB05441-02									
TKN			113	80-120			02/20/2026	EDM	D
Matrix Spike (B260513-MS2) Source ID: EP00537-01									
TKN			108	80-120			02/20/2026	EDM	D
Matrix Spike (B260513-MS3) Source ID: LS02636-02									
TKN			124	80-120			02/20/2026	EDM	QC-05, D
Matrix Spike (B260513-MS4) Source ID: EP00533-01									
TKN			107	80-120			02/20/2026	EDM	D
Matrix Spike Dup (B260513-MSD1) Source ID: BB05441-02									
TKN			120	80-120	2.03	20	02/20/2026	EDM	M-09, D
Matrix Spike Dup (B260513-MSD2) Source ID: EP00537-01									
TKN			94.8	80-120	9.43	20	02/20/2026	EDM	D
Matrix Spike Dup (B260513-MSD3) Source ID: LS02636-02									
TKN			110	80-120	4.63	20	02/20/2026	EDM	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B260563									
Blank (B260563-BLK1)									
Chloride	<0.5	mg/L					02/23/2026	BAK	U
LCS (B260563-BS1)									
Chloride			94.3	90-110			02/23/2026	BAK	
Duplicate (B260563-DUP2) Source ID: AC00458-03									
Chloride					0.347	10	02/23/2026	BAK	
Duplicate (B260563-DUP3) Source ID: WQ00321-05RE1									
Chloride					0.386	10	02/24/2026	BAK	D
Matrix Spike (B260563-MS2) Source ID: AC00458-03									
Chloride			97.3	90-110			02/23/2026	BAK	
Matrix Spike (B260563-MS3) Source ID: WQ00321-05RE1									
Chloride			94.5	90-110			02/24/2026	BAK	D
Matrix Spike Dup (B260563-MSD2) Source ID: AC00458-03									
Chloride			94.6	90-110	1.71	10	02/23/2026	BAK	
Matrix Spike Dup (B260563-MSD3) Source ID: WQ00321-05RE1									
Chloride			99.5	90-110	1.96	10	02/24/2026	BAK	D
Batch: B260600									
Blank (B260600-BLK1)									
Ammonia, as N	<0.06	mg/L					03/02/2026	ALN	U
Blank (B260600-BLK2)									
Ammonia, as N	<0.06	mg/L					03/02/2026	ALN	U
LCS (B260600-BS1)									
Ammonia, as N			109	90-110			03/02/2026	ALN	
LCS (B260600-BS2)									
Ammonia, as N			105	90-110			03/02/2026	ALN	
Duplicate (B260600-DUP1) Source ID: BB05441-02									
Ammonia, as N					0.402	20	03/02/2026	ALN	D
Duplicate (B260600-DUP2) Source ID: WB04233-07									
Ammonia, as N					0.480	20	03/02/2026	ALN	D
Matrix Spike (B260600-MS1) Source ID: BB05441-02									
Ammonia, as N			114	84-115			03/02/2026	ALN	D
Matrix Spike (B260600-MS2) Source ID: WB04233-07									
Ammonia, as N			116	84-115			03/02/2026	ALN	Cust-01, M-09, D
Matrix Spike (B260600-MS3) Source ID: EP00533-01									
Ammonia, as N			106	84-115			03/02/2026	ALN	D
Matrix Spike (B260600-MS5) Source ID: EP00537-01									
Ammonia, as N			116	84-115			03/02/2026	ALN	QC-03
Matrix Spike (B260600-MS6) Source ID: EP00536-01RE1									
Ammonia, as N			114	84-115			03/02/2026	ALN	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B260600 (Continued)									
Matrix Spike Dup (B260600-MSD1) Source ID: BB05441-02									
Ammonia, as N			118	84-115	1.92	20	03/02/2026	ALN	Cust-01, M-09, D
Matrix Spike Dup (B260600-MSD2) Source ID: WB04233-07									
Ammonia, as N			115	84-115	0.433	20	03/02/2026	ALN	D
Batch: B260625									
Blank (B260625-BLK1)									
Nitrate-Nitrite, as N	<0.025	mg/L					02/27/2026	JAL	U
Blank (B260625-BLK2)									
Nitrate-Nitrite, as N	<0.025	mg/L					02/27/2026	JAL	U
LCS (B260625-BS1)									
Nitrate-Nitrite, as N			101	90-110			02/27/2026	JAL	
LCS (B260625-BS2)									
Nitrate-Nitrite, as N			97.5	90-110			02/27/2026	JAL	
Duplicate (B260625-DUP1) Source ID: AC00458-01									
Nitrate-Nitrite, as N					3.33	10	02/27/2026	JAL	
Duplicate (B260625-DUP2) Source ID: BB05454-02									
Nitrate-Nitrite, as N					0.0773	10	02/27/2026	JAL	
Duplicate (B260625-DUP3) Source ID: BB05458-01									
Nitrate-Nitrite, as N					1.05	10	02/27/2026	JAL	
Duplicate (B260625-DUP4) Source ID: LS02642-02									
Nitrate-Nitrite, as N					0.0631	10	02/27/2026	JAL	
Duplicate (B260625-DUP5) Source ID: WB04228-06RE1									
Nitrate-Nitrite, as N					17.6	10	02/27/2026	JAL	QC-02
Matrix Spike (B260625-MS1) Source ID: AC00458-01									
Nitrate-Nitrite, as N			94.2	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS2) Source ID: BB05454-02									
Nitrate-Nitrite, as N			97.2	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS3) Source ID: BB05458-01									
Nitrate-Nitrite, as N			95.7	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS4) Source ID: LS02642-02									
Nitrate-Nitrite, as N			96.7	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS5) Source ID: WB04228-06RE1									
Nitrate-Nitrite, as N			93.5	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS6) Source ID: WQ00321-03									
Nitrate-Nitrite, as N			97.1	90-110			02/27/2026	JAL	
Matrix Spike (B260625-MS7) Source ID: WQ00321-04									
Nitrate-Nitrite, as N			95.2	90-110			02/27/2026	JAL	
Matrix Spike Dup (B260625-MSD1) Source ID: AC00458-01									
Nitrate-Nitrite, as N			93.4	90-110	0.563	10	02/27/2026	JAL	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B260625 (Continued)									
Matrix Spike Dup (B260625-MSD2) Source ID: BB05454-02									
Nitrate-Nitrite, as N			97.2	90-110	0.0390	10	02/27/2026	JAL	
Matrix Spike Dup (B260625-MSD3) Source ID: BB05458-01									
Nitrate-Nitrite, as N			95.4	90-110	0.144	10	02/27/2026	JAL	
Matrix Spike Dup (B260625-MSD4) Source ID: LS02642-02									
Nitrate-Nitrite, as N			95.9	90-110	0.266	10	02/27/2026	JAL	
Matrix Spike Dup (B260625-MSD5) Source ID: WB04228-06RE1									
Nitrate-Nitrite, as N			92.0	90-110	1.45	10	02/27/2026	JAL	
Dissolved Wet Chemistry									
Batch: B260509									
Blank (B260509-BLK1)									
Orthophosphate, as P	<0.003	mg/L					02/18/2026	EDM	U
LCS (B260509-BS1)									
Orthophosphate, as P			97.8	90-110			02/18/2026	EDM	
Duplicate (B260509-DUP1) Source ID: AC00458-04									
Orthophosphate, as P					0.273	10	02/18/2026	EDM	
Duplicate (B260509-DUP2) Source ID: LS02642-07									
Orthophosphate, as P					0.0830	10	02/18/2026	EDM	D
Matrix Spike (B260509-MS1) Source ID: AC00458-04									
Orthophosphate, as P			98.2	90-110			02/18/2026	EDM	
Matrix Spike (B260509-MS2) Source ID: LS02642-07									
Orthophosphate, as P			97.7	90-110			02/18/2026	EDM	D
Matrix Spike Dup (B260509-MSD1) Source ID: AC00458-04									
Orthophosphate, as P			98.8	90-110	0.284	10	02/18/2026	EDM	
Matrix Spike Dup (B260509-MSD2) Source ID: LS02642-07									
Orthophosphate, as P			97.8	90-110	0.0351	10	02/18/2026	EDM	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals									
Batch: B260517									
Blank (B260517-BLK1)									
Calcium	<0.05	mg/L					02/25/2026	SMC	U
Magnesium	<40	ug/L					02/25/2026	SMC	U
Phosphorus as P	<0.011	mg/L					02/25/2026	SMC	U
LCS (B260517-BS1)									
Calcium			97.6	85-115			02/25/2026	SMC	
Magnesium			99.4	85-115			02/25/2026	SMC	
Phosphorus as P			104	85-115			02/25/2026	SMC	
Duplicate (B260517-DUP1) Source ID: AC00458-01									
Calcium					0.0783	20	02/25/2026	SMC	
Magnesium					2.73	20	02/25/2026	SMC	
Phosphorus as P					1.71	20	02/25/2026	SMC	
Duplicate (B260517-DUP2) Source ID: AC00459-01									
Calcium					1.17	20	02/25/2026	SMC	
Magnesium					4.83	20	02/25/2026	SMC	
Phosphorus as P					1.05	20	02/25/2026	SMC	
Matrix Spike (B260517-MS1) Source ID: AC00458-01									
Calcium			99.1	70-130			02/25/2026	SMC	
Magnesium			100	70-130			02/25/2026	SMC	
Phosphorus as P			104	70-130			02/25/2026	SMC	
Matrix Spike (B260517-MS2) Source ID: AC00459-01									
Calcium			101	70-130			02/25/2026	SMC	
Magnesium			101	70-130			02/25/2026	SMC	
Phosphorus as P			107	70-130			02/25/2026	SMC	
Matrix Spike Dup (B260517-MSD1) Source ID: AC00458-01									
Calcium			99.5	70-130	0.243	20	02/25/2026	SMC	
Magnesium			101	70-130	0.586	20	02/25/2026	SMC	
Phosphorus as P			106	70-130	1.41	20	02/25/2026	SMC	
Matrix Spike Dup (B260517-MSD2) Source ID: AC00459-01									
Calcium			102	70-130	0.260	20	02/25/2026	SMC	
Magnesium			100	70-130	0.125	20	02/25/2026	SMC	
Phosphorus as P			108	70-130	0.284	20	02/25/2026	SMC	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals (Continued)									
Batch: B260581									
Blank (B260581-BLK1)									
Mercury	<0.006	ug/L					02/26/2026	SAS	U
LCS (B260581-BS1)									
Mercury			100	85-115			02/26/2026	SAS	
Duplicate (B260581-DUP1) Source ID: AC00458-04									
Mercury					9.10	20	02/26/2026	SAS	J
Duplicate (B260581-DUP2) Source ID: EP00541-01									
Mercury					1.47	20	02/26/2026	SAS	J
Matrix Spike (B260581-MS1) Source ID: AC00458-04									
Mercury			99.3	70-130			02/26/2026	SAS	
Matrix Spike (B260581-MS2) Source ID: EP00541-01									
Mercury			99.3	70-130			02/26/2026	SAS	
Matrix Spike Dup (B260581-MSD1) Source ID: AC00458-04									
Mercury			98.9	70-130	0.349	20	02/26/2026	SAS	
Matrix Spike Dup (B260581-MSD2) Source ID: EP00541-01									
Mercury			99.8	70-130	0.448	20	02/26/2026	SAS	
Batch: B260596									
Blank (B260596-BLK1)									
Arsenic	<0.050	ug/L					02/26/2026	DMW	U
Cadmium	<0.010	ug/L					02/26/2026	DMW	U
Lead	<0.010	ug/L					02/26/2026	DMW	U
LCS (B260596-BS1)									
Arsenic			95.6	85-115			02/26/2026	DMW	
Cadmium			100	85-115			02/26/2026	DMW	
Lead			101	85-115			02/26/2026	DMW	
Duplicate (B260596-DUP1) Source ID: AC00458-01									
Arsenic					0.541	20	02/26/2026	DMW	
Cadmium					6.42	20	02/26/2026	DMW	
Lead					2.83	20	02/26/2026	DMW	
Matrix Spike (B260596-MS1) Source ID: AC00458-01									
Arsenic			94.6	70-130			02/26/2026	DMW	
Cadmium			97.1	70-130			02/26/2026	DMW	
Lead			97.4	70-130			02/26/2026	DMW	
Matrix Spike Dup (B260596-MSD1) Source ID: AC00458-01									
Arsenic			94.5	70-130	0.0822	20	02/26/2026	DMW	
Cadmium			97.9	70-130	0.738	20	02/26/2026	DMW	
Lead			99.2	70-130	1.37	20	02/26/2026	DMW	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Metals									
Batch: B260542									
Blank (B260542-BLK1)									
Cadmium	<0.010	ug/L					02/20/2026	DMW	U
Copper	<0.14	ug/L					02/20/2026	DMW	U
Lead	<0.0050	ug/L					02/20/2026	DMW	U
Zinc	<0.50	ug/L					02/20/2026	DMW	U
LCS (B260542-BS1)									
Cadmium			102	85-115			02/20/2026	DMW	
Copper			98.0	85-115			02/20/2026	DMW	
Lead			103	85-115			02/20/2026	DMW	
Zinc			98.2	85-115			02/20/2026	DMW	
Duplicate (B260542-DUP1) Source ID: AC00458-01									
Cadmium					NR	10	02/20/2026	DMW	U
Copper					0.562	10	02/20/2026	DMW	
Lead					0.444	10	02/20/2026	DMW	
Zinc					1.56	10	02/20/2026	DMW	
Matrix Spike (B260542-MS1) Source ID: AC00458-01									
Cadmium			97.6	70-130			02/20/2026	DMW	
Copper			93.9	70-130			02/20/2026	DMW	
Lead			97.5	70-130			02/20/2026	DMW	
Zinc			93.2	70-130			02/20/2026	DMW	
Matrix Spike Dup (B260542-MSD1) Source ID: AC00458-01									
Cadmium			97.5	70-130	0.177	10	02/20/2026	DMW	
Copper			92.7	70-130	1.08	10	02/20/2026	DMW	
Lead			97.6	70-130	0.0395	10	02/20/2026	DMW	
Zinc			92.9	70-130	0.157	10	02/20/2026	DMW	

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Report Date: 03/06/2026 13:44

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Notes and Definitions

Item	Definition
Cust-01	Confirmation analysis resulted is passing recovery.
D	Data reported from a dilution
J	Estimated value
M-09	At least one Matrix Spike recovers within the acceptance criteria for the analyte. Matrix interference for the analyte is not suspected in reported result.
QC-02	The RPD is greater than the method acceptance criteria. At least one of the values used to calculate the RPD, is less than or equal to the PQL.
QC-03	The matrix spike recovery is outside the method acceptance limits; a matrix interferent was present and could not be corrected.
QC-05	The spike recovery of either the MS or MSD is outside method acceptance limits. The batch was accepted because the LCS is within method acceptance criteria.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristin Jolliffe
Steven Turner

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
AC00959-01	2/16/26	2/17/26	2101	0215	260216-206-WC	KJ	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	2

Relinquished by (sign)	Date &Time Transferred	Received by (sign)
Kristin Jolliffe	2/17/26 0645	2/17/26 0650

Comments/ Special Instructions

1 of 2 1.4°C 2 of 2 2L sample - has small layer ice 0.8°C

COC_WQL-PI

251006 ST

AC00959

NPDES Phase I Storm Event Report
March 31, 2026

Prepared by
Ada County Highway District
May 26, 2026

Section 1: Introduction

The Environmental Protection Agency Region 10 issued a Municipal Separate Storm Sewer System Phase I National Pollutant Discharge Elimination System Permit (NPDES Permit), effective October 1, 2021, to Ada County Highway District (ACHD), Boise City, Ada County Drainage District No. 3, Idaho Transportation Department District 3, Boise State University, and Garden City. Under the NPDES Permit, Permittees are required to continue to conduct wet weather stormwater outfall monitoring and subwatershed monitoring. Four outfall monitoring sites (Lucky, Whitewater, Main, and Americana) and one subwatershed monitoring site (AS_6) have been established. The AS_6 site represents a subwatershed located within the Americana watershed. At each site, a minimum of three composite and three grab samples will be collected during Water Year (WY) 2026 (October 1, 2025, through September 30, 2026). The following storm event report summarizes stormwater sampling results from the March 31, 2026, storm event.

Section 2: Project Status

Table 2-1 is a summary of the sample types collected to date for WY 2026 Phase I Stormwater Outfall Monitoring. When samples are qualified, additional samples will be attempted from subsequent storms to collect unqualified samples.

Table 2-1. WY 2026 Samples Collected

Date	Lucky	Whitewater	Main	Americana	AS_6
October 25, 2025	--, C	--, C[1]	--, C	--, C	--, C
December 4, 2025	G[2], C	G[2], C	G[2], C	G[2,3], --	--, --
February 16, 2026	G[2], C	G[2], C	G[2], C[1]	G[2], C	G[2], C
March 31, 2026	G, --	G, C[1]	G, C	G, C	G, C
Unqualified Samples:	1G, 3C	1G, 2C	1G, 3C	1G, 3C	1G, 3C
Samples Remaining:	2G, 0C	2G, 1C	2G, 0C	2G, 0C	2G, 0C

Notes:

-- = no samples taken.

C = composite sample.

G = grab sample.

[1] Composite sample qualified due to lack of representativeness (50%–75%).

[2] E. coli sample qualified due to exceeded hold time (>8 and <16 hours).

[3] E. coli and field parameter samples rejected due to insufficient rainfall at the time of sample collection.

Section 3: Storm Event Summary

The March 31, 2026, storm event and the subsequent preparation and sampling efforts are detailed in the following sections.

3.1 Storm Detail

A summary of the forecast on which monitoring decisions were based is detailed below. The sampling event communication form that describes the forecast and summarizes the decision-making process from March 31, 2026, is included in Attachment A for reference.

Monday, March 30, 2026 (Sampling Event Communication and Set Up)

- On the afternoon of March 30, 2026, the National Weather Service issued a forecast for widespread precipitation beginning on March 31 at 0600 until 1200. The chance of precipitation was 70% with an 82% chance of rain totals exceeding 0.10" over a 12-hour period. The forecasted precipitation for this event was 0.13 inches of rain.
- Monitoring station setup was accomplished on the afternoon of March 31. An expected precipitation depth of 0.11 inches was used to set trigger volumes at monitoring stations. A runoff calculations worksheet showing how the trigger volumes were calculated is included in Attachment A.

Tuesday, March 31, 2026 (Sampling Event Communication Update)

- The forecasted precipitation for the morning of March 31 did not occur. On the afternoon of March 31, the National Weather Service issued a forecast for showers and thunderstorms beginning on March 31 at 1700 until 0500 on April 1. The chance of precipitation was 80% with a 60% chance of rain totals exceeding 0.10" over a 12- hour period. The forecasted precipitation for this event was 0.12 inches of rain.

Tuesday, March 31, 2026 (Storm Event)

- The runoff started on March 31 at approximately 2155 and ended on April 1 at approximately 0610.
- Precipitation totals ranged between 0.16 and 0.17 inches at local rain gauges.

Flow measurements and precipitation data are listed in Table 1 along with a sampling summary. Hydrographs for the Lucky, Whitewater, Main, Americana, and AS_6 sites showing flow, rain, and sample collection data are included in Attachment B.

3.2 Sampling Summary

The Whitewater, Main, Americana, and AS_6 monitoring stations were set up on March 30, 2026, to collect flow-proportional composite samples during the storm. Sampler enable conditions were programmed into the Whitewater, Main, Americana, and AS_6 flowmeters. Setup and sampling information are included in Table 1. The field forms completed during setup/shutdown and sampling are included in Attachment C.

Grab Samples

Two, two-member teams mobilized to collect stormwater grab samples and verify operation of the automatic sampling equipment on March 31 at approximately 2247. Grab samples were collected at the Lucky, Whitewater, Main, Americana, and AS_6 monitoring stations and submitted to the Boise City Public Works Water Quality Laboratory (WQL) on April 1 at 0228. Results for grab samples, including field parameter and analytical data, are included in Table 2. Laboratory analytical reports are included in Attachment D.

Composite Samples

Composite samples were collected at the Whitewater, Main, Americana, and AS_6 monitoring stations and submitted to the WQL at 0519 on April 1. Analytical results are shown in Table 2, and pollutant loading estimates for the event are detailed in Table 3. Laboratory analytical reports are included in Attachment D.

Section 4: Quality Assurance/Quality Control

A summary of quality control samples collected during the March 31, 2026, storm event is presented below in Table 4-1. A field blank and a field duplicate were collected from the Lucky monitoring station. The analytical results for these samples are included in Table 4.

Table 4-1. Quality Control Samples

Sample ID	Sample Type	Parent Sample	Conclusions
260331-03-001	Field blank grab	260331-03-WG	No *E. coli* detected in the field blank.
260331-03-101	Field duplicate grab	260331-03-WG	Relative percent difference was within the acceptable range.

An acceptable composite sample represents at least 75 percent of the total discharge or at least 6 hours of the storm duration. The Main, Americana, and AS_6 composite samples met the representativeness criteria. The Whitewater composite sample represents 64% of the total discharge and less than six hours of the storm duration; therefore, the Whitewater composite sample is qualified.

Data quality objectives for this storm were evaluated and tracked using the data validation review checklist included in Attachment A.

Section 5: Notes and Recommendations

Gas Meter Malfunction

At the beginning of the storm event, one grab sample team experienced a gas meter malfunction. As a result, grab sample collection at Main, Americana, and AS_6 was delayed until a replacement gas meter was obtained. After the storm event, it was determined that an internal component of the gas meter was loose, resulting in the malfunction. The gas meter began working properly once the internal connection was reestablished.

Cynthia Mann Rain Gauge

After the completion of the storm event, it was discovered that the Cynthia Mann rain gauge associated with the Lucky monitoring station failed to record precipitation data. ACHD staff confirmed cable connections, and the rain gauge successfully recorded simulated precipitation amounts. New wire connectors were installed to reinforce cable connections to the rain gauge moving forward.

Whitewater

On April 1, 2026, at 0020, a second composite bottle was installed at the Whitewater monitoring station to continue sample collection; however, no further subsamples were collected despite water level in the pipe exceeding the enable condition. Post-storm troubleshooting of the equipment revealed the

interface cable connecting the flowmeter to the sampler was malfunctioning. A new interface cable was installed and the issue was resolved.

Data Tables

Table 1. Sampling and Flow Summary					
	Lucky	Whitewater	Main	Americana	AS_6
Grab samples collected and submitted?	YES	YES	YES	YES	YES
Composite samples collected and submitted?	NO	YES	YES	YES	YES
Trigger volume	--	801 cf	456 cf	2960 cf	1646 gal
Sampler enable condition (in) or Velocity cutoff (fps)	--	Level > 3.06"	Level > 2.263"	Level > 5.5"	Level > 1.00"
Deadband/ Hysteresis (in)	--	1.0"	1.0"	1.0"	1.0"
Runoff start time	2211[1]	2207[1]	2155[1]	2157[1]	2211[1]
Grab sample collection time	2301	2337	0200	0136	0056
Composite sample stop time	--	0013	0206	0344	0215
Runoff stop time	0135[2]	0610[2]	0430[2]	0459[2]	0325[2]
Volume of discharge sampled (ft^3)	--	18,640	5,517	68,349	2,542
Total runoff volume (ft^3)	8,123	28,971	6,292	75,370	2,669
Percent of storm flow sampled (%)	--	64%	88%	91%	87%
Composite sample duration (hrs)	--	1.5	4.0	5.5	3.5
Storm Precipitation (in)	0.16[3]	0.16	0.16	0.16/0.17	0.16/0.17
Referenced Rain Gauge	Cynthia Mann	Whitewater	Front	Front/East	Front/East
Sampler messages (counts): Success	--	24	13	24	11
Number of composite bottles filled	--	1	1	1	1
Composite sample volume (Approx.; mL)	--	13,250 mL	7,250 mL	14,000 mL	6,500 mL

Notes:

-- = No data.

[1] *Storm runoff started on 3/31/2026*

[2] *Storm runoff ended on 4/1/2026*

[3] *Cynthia Mann rain gauge data was not collected. An estimated precipitation value was calculated by taking the average of storm precipitation collected at the Phase I rain gauges.*

Table 2. Field and Analytical Data Summary

Monitoring Station	Sample Date	Sample ID Grab	Field Parameters				Analytical Parameters																						
			Dissolved Oxygen	pH	Conductivity	Temperature	E. coli	Sample ID Composite	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
			mg/L	S.U.	uS/cm	C	MPN/100 mL		mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Lucky	3/31/2026	260331-03-WG	8.843	7.505	56.25	12.65	156.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whitewater	3/31/2026	260331-11-WG	8.936	7.415	103.5	12.32	1990.0	260331-11-WC	28.7[1]	162[1]	26.0[1]	66.5[1]	17.4[1]	107[1]	155[1]	0.710[1]	0.404[1]	0.986[1]	0.792[1]	3.38[1]	3.0[1]	0.013[1]	0.10[1]	6.0[1]	0.25[1]	5.8[1]	0.0184[1]	28.7[1]
Main	4/1/2026	260401-12-WG	9.724	7.641	103.8	12.00	141360	260331-12-WC	21.7	160	7.18	23.3	20.9	154	79.0	0.326	0.128	1.31	0.447	3.10	2.3	0.020	0.15	7.2	0.13	8.0	0.0180	43.4
Americana	4/1/2026	260401-14-WG	8.725	7.706	564.6	14.39	816.4	260331-14-WC	28.3	146	44.6	92.8	15.7	99.1	203	0.504	0.262	0.996	1.10	2.78	4.4	0.017	0.12	7.1	0.15	5.2	0.0132	38.2
AS_6	4/1/2026	260401-206-WG	8.855	7.449	126.8	11.69	6500	260331-206-WC	76.7	243	7.77	35.9	21.8	166	161	1.61	1.12	1.98	0.505	7.53	3.4	0.028	0.14	13.1	0.94	8.5	0.0207	52.8

Notes:

-- = No data.

[1] Composite sample qualified due to lack of representativeness (50% - 75%).

Table 3. Event Pollutant Loading Estimates in Pounds						
Monitoring Station	Event Date	TSS	Total Phosphorus	Ammonia as N	Nitrate + Nitrite as N	TKN
Lucky	--	--	--	--	--	--
Whitewater	3/31/2026	193.5[1]	1.284[1]	1.783[1]	1.432[1]	6.11[1]
Main	3/31/2026	60.5	0.128	0.514	0.176	1.22
Americana	3/31/2026	466.2	2.371	4.685	5.174	13.08
AS_6	3/31/2026	27.6	0.268	0.330	0.084	1.25

Notes:

[1] *Composite sample qualified due to lack of representativeness (50% - 75%).*

Table 4. QC Sample Summary				
Date	Parent Sample	Sample ID	Type	E. coli
				MPN/100 mL
3/31/2026	260331-03-WG	260331-03-001	Field Blank	<1.0
3/31/2026	260331-03-WG	260331-03-101	Field Duplicate	167.0
Calculated parent/duplicate RPD				1%
Allowable RPD				40%

Attachment A: Supplemental Documents

Sampling Event Communication Form

Data Validation Checklist

Runoff Calculation Worksheet

SAMPLING EVENT COMMUNICATION FORM

Date: 3/31/2026	Time: 12:50 PM	Initials: ST
Is there a targeted sampling event during the next 36 hours? (Or, if it is Friday, is a targeted event expected before 5:00 PM Monday?)		Yes

Past 72 hr Precip	0.00”
Date and time of expected event	3/31/2026 5pm – 5am
Expected amount of precipitation	0.12”
Percent chance of precipitation	80%
Percent chance of >0.10” over 12 hours	60%

NWS Update

I spoke with Les at the NWS. Showers with some thunderstorms are forecasted to begin this evening around 5pm until 5am tomorrow. The predicted rainfall amount is 0.12”. The rain will be coming in from the Southwest, so there is potential for rain shadowing from the Owyhee’s.

Targeted Station & Samples

Lucky	Whitewater	Main	Americana	AS_6	State (Phase II)
☒ Grab	☒ Grab	☒ Grab	☒ Grab	☒ Grab	☐ Grab
☐ Composite	☒ Composite	☒ Composite	☒ Composite	☒ Composite	☐ Composite

Type of Forecasted Precipitation

☐ Light Rain	☒ Rain	☐ Rain on Snow
☒ Scattered Showers	☒ Thunder Showers	☐ Snowmelt
☐ Other:		

Reasons for Not Targeting a Forecasted Storm and/or Stations

☐ Holiday:
☐ Waiting on Antecedent Dry Period:
☐ Equipment Concerns:
☐ Other:

Text Forecast

NWS Forecast for: 2 Miles NNW Garden City ID
Issued by: National Weather Service Boise, ID
Last Update: 12:43 pm MDT Mar 31, 2026

This Afternoon: A chance of showers and thunderstorms before 4pm, then showers likely and possibly a thunderstorm between 4pm and 5pm, then a chance of showers and thunderstorms after 5pm. Mostly cloudy, with a high near 63. South southeast wind around 6 mph becoming west. **Chance of precipitation is 70%.**
Tonight: Showers and possibly a thunderstorm before midnight, then showers likely. Low around 44. Southeast wind around 6 mph becoming calm in the evening. **Chance of precipitation is 80%. New precipitation amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.**
Wednesday: Showers and possibly a thunderstorm. High near 60. Calm wind becoming south southeast 5 to 9 mph in the morning. **Chance of precipitation is 80%.**
Wednesday Night: Showers and possibly a thunderstorm. Low around 37. Southeast wind 7 to 10 mph becoming west northwest after midnight. **Chance of precipitation is 100%. New precipitation amounts between a quarter and half of an inch possible.**

Thursday: Rain and snow showers, becoming all rain after noon. High near 50. West wind 7 to 15 mph, with gusts as high as 25 mph. **Chance of precipitation is 80%. Little or no snow accumulation expected.**
Thursday Night: A 10 percent chance of showers before midnight. Partly cloudy, with a low around 31.
Friday: Sunny, with a high near 57.
Friday Night: Mostly clear, with a low around 35.
Saturday: Sunny, with a high near 65.
Saturday Night: Mostly clear, with a low around 39.
Sunday: Sunny, with a high near 71.
Sunday Night: Partly cloudy, with a low around 43.
Monday: Mostly sunny, with a high near 74.

Forecast Discussion

Area Forecast Discussion
National Weather Service Boise ID
1155 AM MDT Tue Mar 31 2026

.UPDATE...Updated aviation discussion.

&&

.KEY MESSAGES...
-Valley rain and mountain snow through Wednesday. Northwest winds gust up to 30 mph during the day and isolated afternoon thunderstorms are possible.

-**The most impactful system arrives late Wednesday, bringing a strong cold front with gusty winds and heavy mountain snow into Thursday morning.** Gusts of 30-45 mph possible across eastern OR ahead of the front. Significant snow is expected above 6000 feet, with snow-covered roads across portions of Idaho Highway 55, ID Highway 21 and US 95 Thursday morning.

-Dry weather and above normal temperatures return for the weekend.

&&

.SHORT TERM /Through Thursday Night/...
Issued 405 AM MDT TUE MAR 31 2026
A stationary front remains over the area over the next day with shower chances highest north of a line from Burns to Boise. Snow levels remain around 6500-7500 feet today. A trough will slowly move into the region, ushering in cooler air aloft by Wednesday. This cooler air will generate enough instability for showers and isolated thunderstorms during the afternoon each day. Relatively dry low levels will support gusty outflow winds in the vicinity of showers. Snow levels fall to 5500-6500 feet on Wednesday.

Winds will ramp up ahead of a cold front Wednesday afternoon, especially in eastern OR, with gusts of 30 to 45 mph. Hazy conditions from lake dust across southcentral OR is possible.

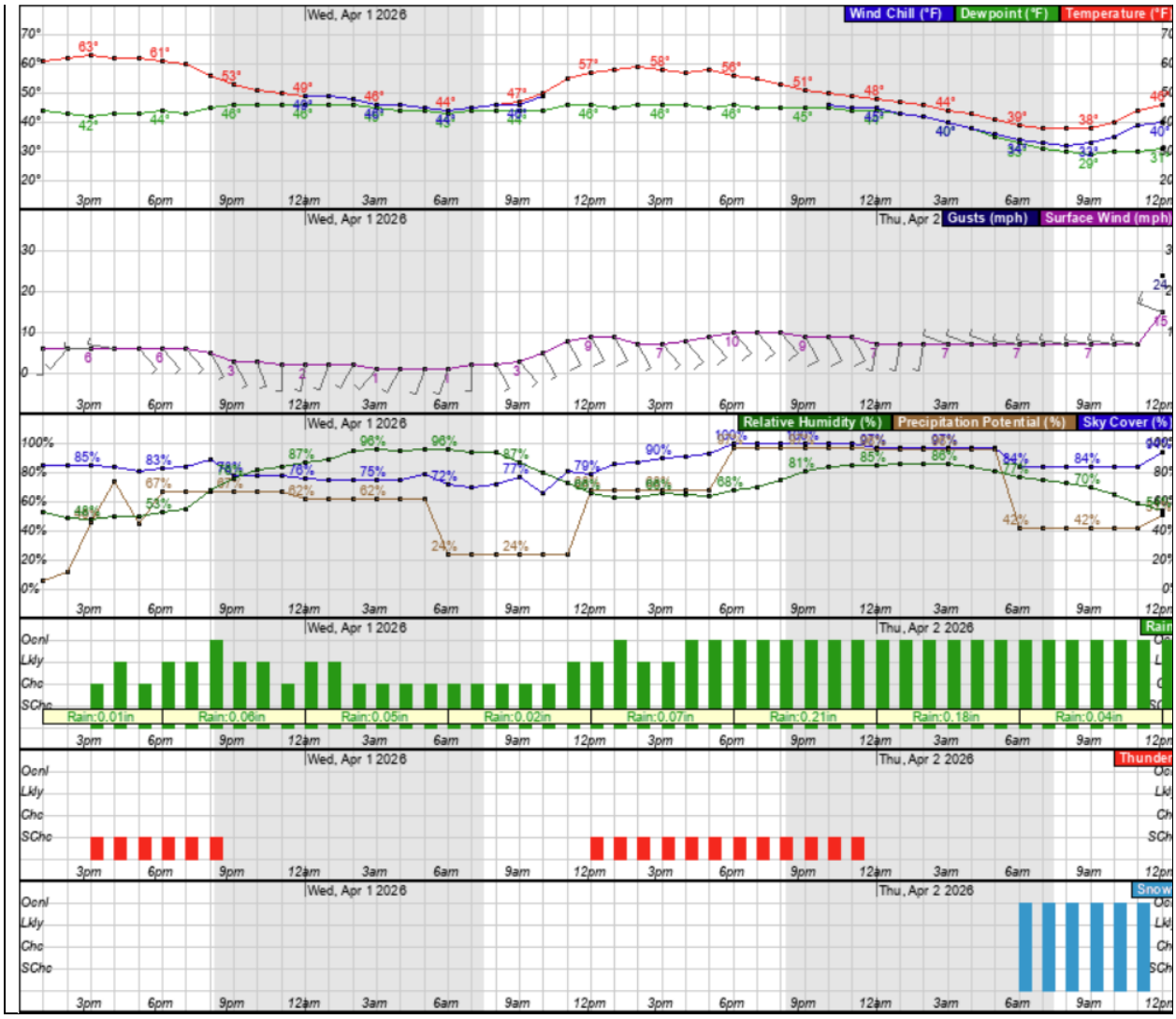
A potent cold front will move into the area early Thursday morning, with snow levels falling to around 2500-3000ft.
Moderate to heavy showers with a slight chance of thunderstorms

expected along the front. Little to no snow accumulations in the valleys below 4000 feet, 2 to 6 inches above 5000 feet, and 6 to 10 inches of snow above 6000 feet. Precipitation quickly tapers off behind the main front with scattered showers during the afternoon on Thursday.

&&

.LONG TERM /Friday through Tuesday/...
Issued 405 AM MDT TUE MAR 31 2026
The upper low system is expected to steer eastward out of our area and continue a weak northwest flow through Friday. Precipitation chances will begin to taper off with scattered snow showers continuing over higher terrain through Friday afternoon. Come Saturday, a drying and warming trend will set in as a Pacific ridge builds into the northwest region. Through Sunday, temperatures will be up to 5-10 degrees above normal. On Monday, another upper low off the Gulf of Alaska will potentially steer a shortwave trough across the northern portions of our CWA. Considerable guidance uncertainty remains over the timing and magnitude of this system. For now, a less than 20% chance of precipitation is expected for mountain areas on Monday and up to 30% on Tuesday.

Hourly Forecast


Wed, Apr 1 2026
Thu, Apr 2 2026
Wind Chill (°F)
Dewpoint (°F)
Temperature (°F)
Gusts (mph)
Surface Wind (mph)
Relative Humidity (%)
Precipitation Potential (%)
Sky Cover (%)
Rain
Thunder
Snow
Ocnl
Lkly
Chc
SChc
Rain:0.01in
Rain:0.06in
Rain:0.05in
Rain:0.02in
Rain:0.07in
Rain:0.21in
Rain:0.18in
Rain:0.04in
3pm
6pm
9pm
12am
3am
6am
9am
12pm

Storm Event QA/QC Checklist – Phase I

STORM DATE: 3/31/2026									
A. Event and Data Completeness	**Yes**	**No**	**N/A**	**Notes**					
1. Field data sheets filled out completely and clearly	X								
2. Field parameters reviewed, and any problems/issues addressed	X								
3. All samples collected as specified	X								
4. All samples delivered to lab promptly (review chain of custody rpts)	X								
5. Inconsistencies/clarifications discussed with sampling team member			X						
6. All analytical reports from lab received	X								
B. Validation and Verification Methods	**Yes**	**No**	**N/A**	**Notes**					
1. Outliers and unexpected values discussed with lab			X						
2. Appropriate analytical methods used	X								
3. All lab QA samples were within method acceptance criteria	X								
4. All samples reviewed and data qualifiers assigned if needed	KJ								
5. Data quality objective achieved	X								
C. Specific Storm and Sample QA/QC Criteria	**Lucky**	**Whitewater**	**Main**	**Americana**	**AS_6**	**Program Criteria**	**Met**	**Qualify**	**Reject**
1. Antecedent dry period (inches in previous 72-hours)	-	0.02	0.01	0.01/ 0.03	0.01/ 0.03	< 0.11" in 72 hrs	X		
2. Precipitation (inches)	0.16*	0.16	0.16	0.16/ 0.17	0.16/ 0.17	> 0.10"	X		
3. Sampled amount (% of total run-off)	-	64	88	91	95	>= 75% or >= 6 hrs: no qualifier >= 50% and <75%: qualify < 50%: reject		X WW	
4. Composite sample duration (hours)	-	1.5	4.0	5.5	3.5		X		
4. Ecoli sample holding time (hours)	8	7	5	5	6	<=8 hrs: no qualifier >8 and <=16 hrs.: qualify >16 hrs.: reject	X		
5. Filtering of samples for dissolved parameter analysis (hours)	-	7	5.5	3.5	5.5	<= 24 hrs: no qualifier > 24 hrs.: reject	X		

D. Notes

- *No precipitation data recorded at Cynthia Mann rain gauge associated with Lucky monitoring station. An estimated precipitation value was calculated by averaging precipitation recorded at the Phase I rain gauges.
- Whitewater composite was qualified due to lack of representativeness (50-75%). An issue with the sampler – flowmeter interface cable resulted in no subsamples after the installation of the 2nd bottle.
- Grab samples at Main, Americana, and AS_6 were delayed due to a faulty gas meter.
- During annual reporting (July 2026) it was noted the grab samples collected at Main, Americana, and AS_6 were named incorrectly with collection date (260401-xx-WG) instead of storm event date (260331-xx-WG). Analytical reports have been updated with correct samples name for annual reporting.

Reviewed by: Hannah Tran 7/7/2026

Approved by: Monica Love 7/7/2026

Updated 251014 ST

Storm Runoff Estimates and Trigger Volumes

Step 1. Enter runoff coefficients in yellow cells.
Step 2. Enter expected precipitation depth (in) in blue cell.
Step 3. Read trigger volumes (**bold**) in green cells.

Expected Precipitation Depth = 0.11
Aliquots per Sample = 17

Site	Area (ac)	Using RC calculated from flow data		
		RC	Expected Vol (ft^3)	Trigger Vol (ft^3)
Lucky	105	0.157	6582.5	**387**
Whitewater	498	0.069	13621.3	**801**
Main	79	0.246	7760.0	**456**
Main Alt	60	0.200	4791.6	**282**
Americana	875	0.144	50311.8	**2960**
Americana Alt	869	0.144	49966.8	**2939**
AS_6	204	0.046	3747.0	**220**
State	34	0.127	1724.2	**101**

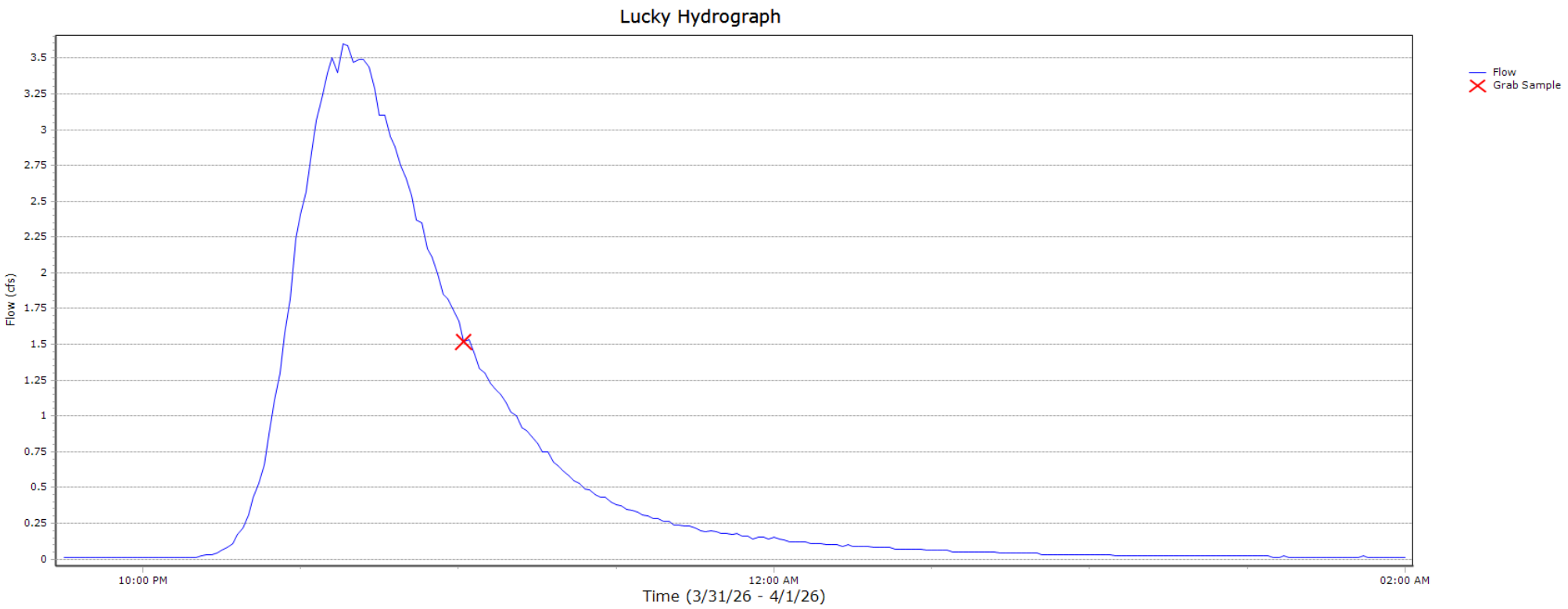
Notes:

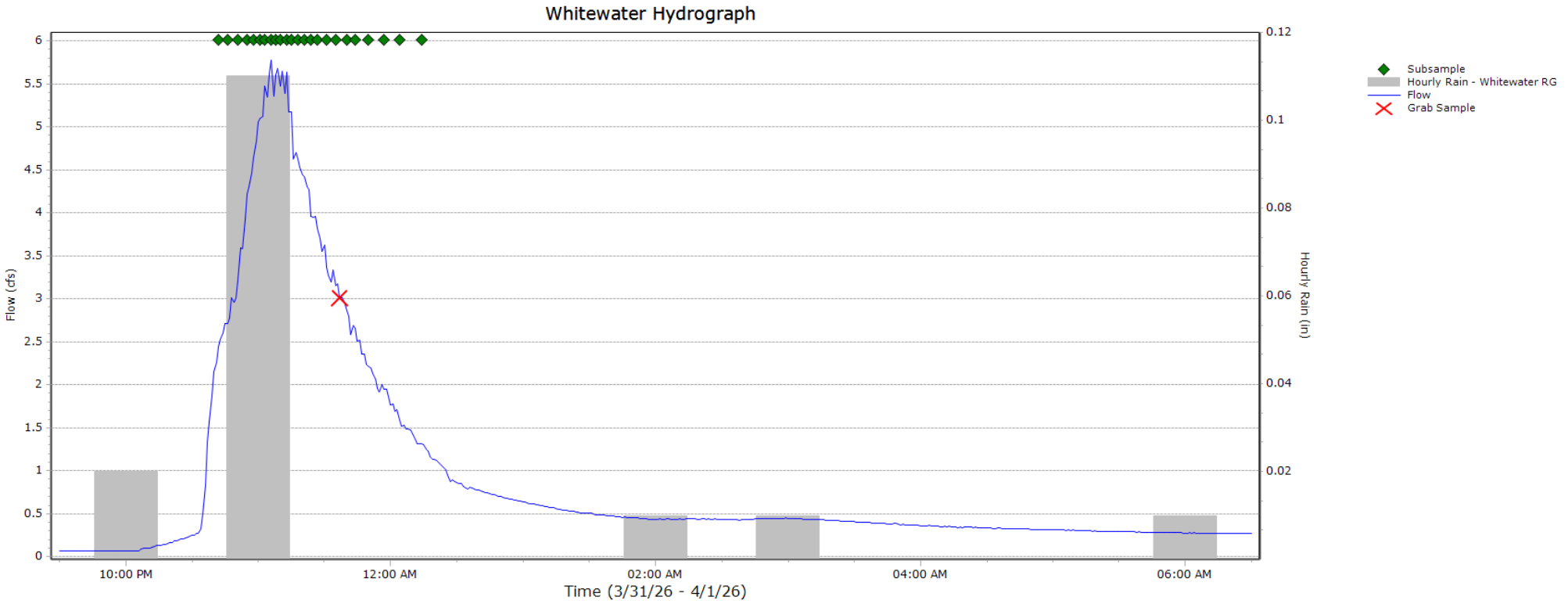
Calculated RC = runoff volume (ft^3) / [precip (ft) x area (ft^2)]

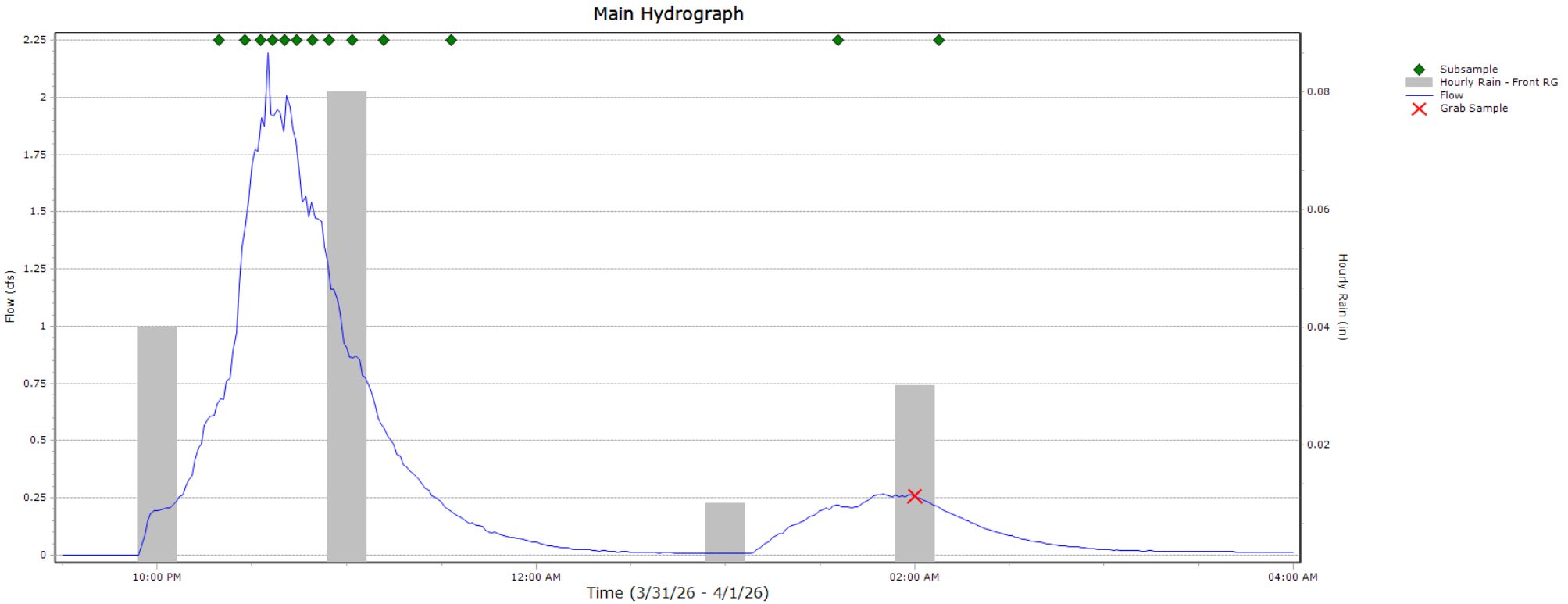
Where volume (ft^3) is the measured discharge, precip (ft) is the measured amount from local rain guage, and area (ft^2) is the watershed area.

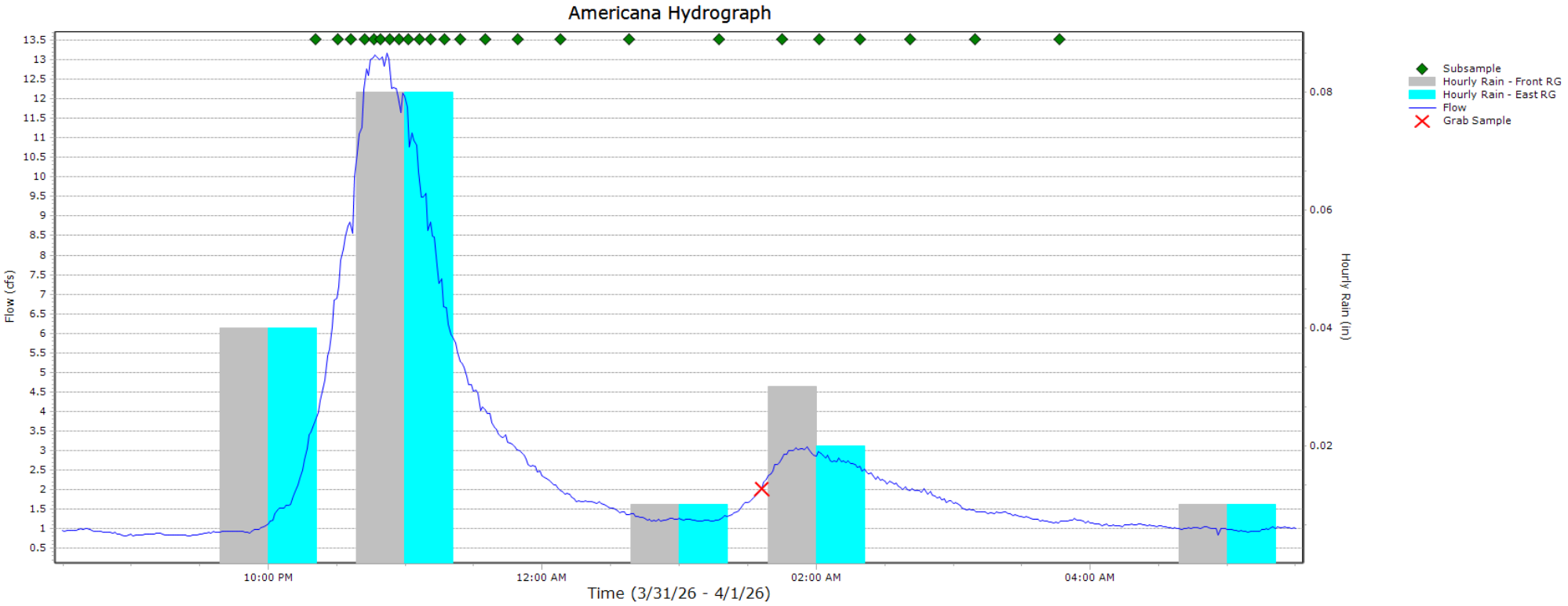
Expected volume (ft^3) = RC x expected precip (ft) x area (ft^2)

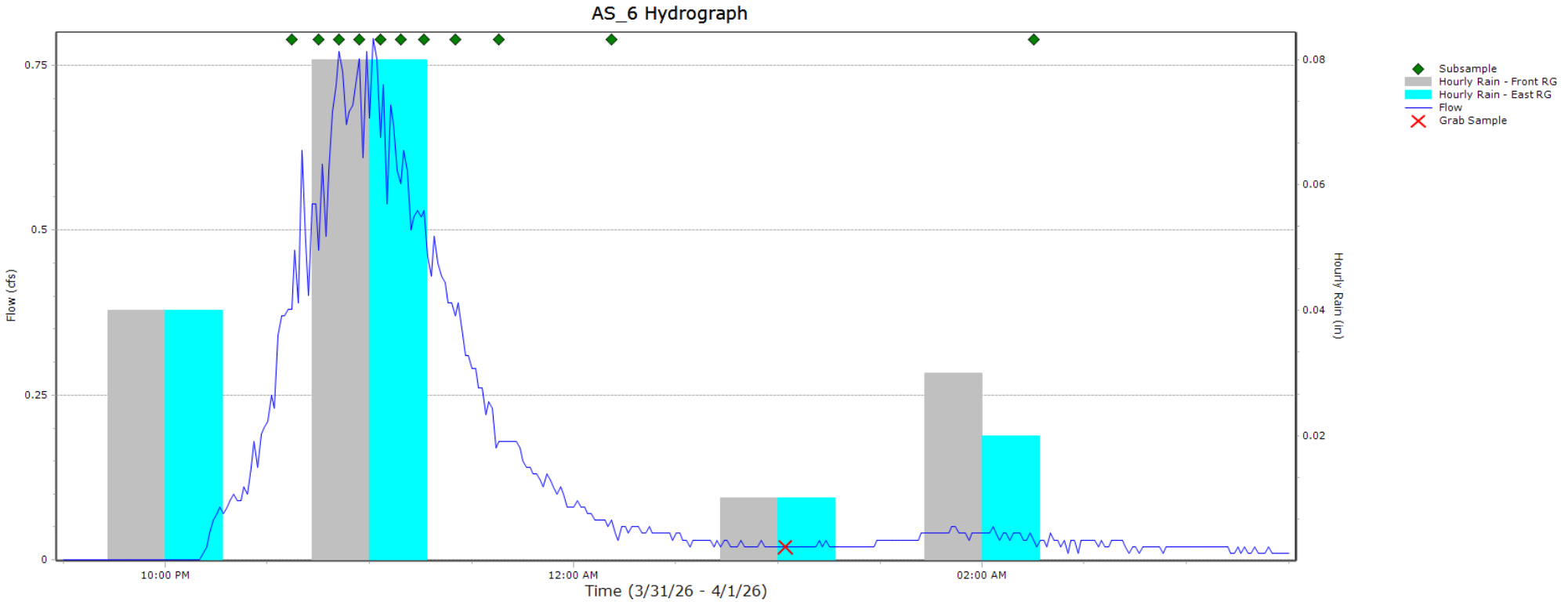
Attachment B: Storm Event Hydrographs


Lucky Hydrograph
Flow (cfs)
3.5
3.25
3
2.75
2.5
2.25
2
1.75
1.5
1.25
1
0.75
0.5
0.25
0
10:00 PM
12:00 AM
02:00 AM
Time (3/31/26 - 4/1/26)
Flow
Grab Sample


Whitewater Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (3/31/26 - 4/1/26)
10:00 PM
12:00 AM
02:00 AM
04:00 AM
06:00 AM
Subsample
Hourly Rain - Whitewater RG
Flow
Grab Sample


Main Hydrograph
Flow (cfs)
Hourly Rain (in)
2.25
2
1.75
1.5
1.25
1
0.75
0.5
0.25
0
0.08
0.06
0.04
0.02
10:00 PM
12:00 AM
02:00 AM
04:00 AM
Time (3/31/26 - 4/1/26)
Subsample
Hourly Rain - Front RG
Flow
Grab Sample


Americana Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (3/31/26 - 4/1/26)
10:00 PM
12:00 AM
02:00 AM
04:00 AM
Subsample
Hourly Rain - Front RG
Hourly Rain - East RG
Flow
Grab Sample


AS_6 Hydrograph
Flow (cfs)
0.75
0.5
0.25
0
Hourly Rain (in)
0.08
0.06
0.04
0.02
10:00 PM
12:00 AM
02:00 AM
Time (3/31/26 - 4/1/26)
Subsample
Hourly Rain - Front RG
Hourly Rain - East RG
Flow
Grab Sample

Attachment C: Field Forms

Grab Sample Data Form

STATION: LUCKY

Personnel: ST/SE **Date/Time On-Site:** 3/31/26 22:47

Flow Meter Current Status				
Time	Level (in)	Flow ~~(cfs)~~ gpm	Velocity (fps)	Battery (V)
22:51	10.69	1191.89	1.67	13.0

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260331-03 -WG	3/31/26	23:01	☑
Field Duplicate *E.Coli**	260331-03 -101	3/31/26	23:06	☑
Field Blank *E.Coli**	260331-03 -001	3/31/26	23:08	☑

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP10	~~XXXX~~ 23:10	12.65	8.843	7.505	56.25

Sampler Current Status	
First Subsample Date/Time	—
Last Subsample Date/Time	—
# of Subsamples taken	—

Comments: Lots of ~~XXXX~~ leafy debris Flowing in pipe.

Date/Time Off-Site: 3/31 23:14

Grab Sample Data Form

STATION: Whitewater

Personnel: ST SE **Date/Time On-Site:** 3/31 23:25

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
23:25	9.34	4.01	1.76	—

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260331-11 -WG	3/31/26	23:37	☒
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP16	2340	12.32	8.936	7.415	103.5

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	

Comments:

Date/Time Off-Site: _____

Grab Sample Data Form

STATION: Main

Personnel: KJ, CL, ST, SE **Date/Time On-Site:** 4/1/26 0155

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0157	4.03	0.25	0.64	11.91

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260401-12 -WG	4/1/26	0200	☐
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP16	0204	12.00	9.724	7.641	103.8

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	

Comments:

Date/Time Off-Site: 4/1/26 0211

Grab Sample Data Form

STATION: Americana

Personnel: KJ, CL, ST, SE **Date/Time On-Site:** ~~2+~~ 4/1/26 0133

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0133	5.829	1.814	2.106	11.69

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260401 - 14 -WG	4/1/26	0136	☐
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP14	0142	14.39	8.725	7.706	564.6

Sampler Current Status	
First Subsample Date/Time	
Last Subsample Date/Time	
# of Subsamples taken	18

Comments:

Date/Time Off-Site: 4/1/26 0142

Grab Sample Data Form

STATION: AS_6

Personnel: KS, CL **Date/Time On-Site:** 4/1/26 0054

Flow Meter Current Status				
Time	Level (in)	Flow ~~(cfs)~~ GPM	Velocity (fps)	Battery (V)
0102	1.28	9.00	0.36	12.7

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260401-206 -WG	4/1/26	0056	☒
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP14	0104	11.69	8.855	7.449	126.8

Sampler Current Status	
First Subsample Date/Time	3/31/26 2237
Last Subsample Date/Time	4/1/26 0011
# of Subsamples taken	10

Comments:

Date/Time Off-Site: 4/1/26

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: Lucky

SET UP

Personnel: KJ, JC

Date/Time On-Site: 3/30/26 1404

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1408	-0.32	0.00	0.00	13.5

Enable Condition or Velocity Cutoff:	—
Deadband:	—
Trigger Volume:	—

- ☒ Check desiccant on flowmeter and sampler
- ☒ Install batteries on flowmeter and sampler
- ☐ Perform decon. cycle NA
- ☐ Install 15L sample bottle, with ice NA
- ☐ Leave bottle lid at site, in a clean re-sealable plastic bag NA
- ☒ Verify all cable and tubing connections
- ☒ Check date and time on flowmeter and sampler
- ☐ Set flowmeter program and sampler program parameters
- ☐ Set logging interval to 1 minute
- ☐ Start flowmeter program and sampler program
- ☐ Verify running

Comments: Grab sample only.

Date/Time Off-Site: 3/30/26 1415

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/2/26 9:26

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
9:29	1.51	0.00	0.00	12.7
Downloaded to:		ST's USB.		

If flow monitoring is complete:	If continuing to monitor flow:
☒ Halt program on flowmeter	☐ Replace flowmeter battery
☒ Download flowmeter data	☐ Reset logging interval to 15 minutes
☒ Remove flowmeter battery	☐ Change velocity cutoff to 0.02 fps
	☐ Start program
	☐ Verify running

Comments:

Date/Time Off-Site: 4/2/26 9:44

Revised 250922 ST

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

STATION: Whitewater

SET UP

Personnel: KJ, JC

Date/Time On-Site: 3/30/26 1430

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1432	1.89	0.05	0.25	—

Enable Condition:	3.06"
Hysteresis:	1.00"
Flow Pulse Interval:	801 cf

On-Site

- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)

- ☒ Direct or Remote; Date/time _____
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 3/30/2026 14:50

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/2/26 1034

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1034	1.93	0.05	0.20	—
	Downloaded to:	ST Laptop		

On-Site

- ☐ Replace flowmeter battery
- ☐ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)

- ☒ Direct or Remote; Date/time 4/1/26 1338
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 4/2/26 1044

STATION: Whitewater
Personnel: ST, SE

Bottle 1 **of** 1
Date/Time On-Site: 3/31/26 2325

☐ Halt sampler program			
☐ Put lid on sample bottle; label sample bottle			
Sample ID:	260331 – 11	-WC	
Approx Sample Volume (mL):	13250 mL		
Clarity (ex. Clear, Cloudy, Silty):	cloudy		
Color (ex. Clear, Gray, Tan, Brown, Black):	black		
QA/QC Sample ID:		-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	3/31/26 2240	Success	13	3/31/26 2317	Success
2	2245		14	2320	
3	2250		15	2323	
4	2254		16	2327	
5	2257		17	2330	
6	2300		18	2334	
7	2302		19	2339	
8	2305		20	2344	
9	2307		21	2349	
10	2310		22	2356	
11	2312		23	4/1/26 0003	
12	2314		24	0013	

Comments: After bottle 1's program finished, a second bottle was installed, but no further subsamples were taken.

Date/Time Off-Site: 4/1/26 0028

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 0020
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	3.0"	3500 mL	5.5"	7250 mL	8.0"	11000 mL	10.5"	14750 mL
1.0"	800 mL	3.5"	4250 mL	6.0"	8000 mL	8.5"	11750 mL	11.0"	15500 mL
1.5"	1400 mL	4.0"	5000 mL	6.5"	8750 mL	9.0"	12500 mL	11.5"	16250 mL
2.0"	2000 mL	4.5"	5750 mL	7.0"	9500 mL	9.5"	13250 mL	After 12"	1" = 1500 mL
2.5"	2750 mL	5.0"	6500 mL	7.5"	10250 mL	10.0"	14000 mL	Lab min	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Main

SET UP

Personnel: RT, JC

Date/Time On-Site: 3/30/26 1500

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1502	1.263	0.00	0.00	11.72

Enable Condition:	2.263"
Hysteresis:	1.00"
Flow Pulse Interval:	456 cf

On-Site

- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)

- ☒ Direct or Remote; Date/time NA
- ☒ NA Retrieve data and review recent flow history
- ☒ NA Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 3/30/26 1515

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/2/26 1020

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1021	1.520	0.01	0.13	11.84
	Downloaded to:	ST USB		

On-Site

- ☐ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)

- ☐ Direct or Remote; Date/time _____
- ☒ Retrieve data
- ☐ Change Wireless Power Control to Dry Weather
- ☐ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☐ Enable Sampler: Never

Comments:

Date/Time Off-Site: 4/2/26 1026

STATION: Main
Personnel: ST, CL

Bottle 1 **of** 1
Date/Time On-Site: 4/1/26 4:45

☐ Halt sampler program	
☐ Put lid on sample bottle; label sample bottle	
Sample ID:	260331 - 12 -WC
Approx Sample Volume (mL):	7250mL
Clarity (ex. Clear, Cloudy, Silty):	Cloudy
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	3/31/26 2218	Success	13	4/1/26 0206	Success
2	2226		14	~~0446~~	
3	2231		15		
4	2235		16		
5	2239		17		
6	2243		18		
7	2248		19		
8	2253		20		
9	2300		21		
10	2310		22		
11	2332		23		
12	4/1/26 0134		24		

Comments:

Date/Time Off-Site: 4/1/26 455

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
Power off sampler, if separate from flowmeter Keep flowmeter running Add ice to sample transport cooler	☐ Keep flowmeter running ☐ Install new 15L bottle; add ice ☐ Restart program from beginning **Date/Time Restarted:** _____ ☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Americana

SET UP

Personnel: KJ, JC

Date/Time On-Site: 3/30/26 1521

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1521	4.293	0.228	0.411	

Enable Condition:	5.5"
Hysteresis:	1.00"
Flow Pulse Interval:	2960 cfs

On-Site

- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)

- ☒ Direct or Remote; Date/time _____
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 3/30/2026 1539

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/2/26 1158

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1158	4.437	0.071	0.122	11.63
	Downloaded to:	ST Laptop		

On-Site

- ☒ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)

- ☒ Direct or Remote; Date/time 4/1/26 1334
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 4/2/26 1201

STATION: Americana **Bottle** 1 **of** 1

Personnel: ST, CL **Date/Time On-Site:** 4/1/26 339

☐ Halt sampler program		
☐ Put lid on sample bottle; label sample bottle		
Sample ID:	260331-14	-WC
Approx Sample Volume (mL):	14000 mL	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Black	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	3/31/26 2218	Success	13	3/31/26 2322	Success
2	2228		14	2333	
3	2234		15	2347	
4	2240		16	4/1/26 0006	
5	2244		17	0036	
6	2247		18	0115	
7	2251		19	0143	
8	2255		20	0159	
9	2259		21	0217	
10	2304		22	0239	
11	2309		23	~~0241~~ 0307	
12	2315		24	0344	

Comments:

Date/Time Off-Site: 4/1/26 401

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: AS-6

SET UP

Personnel: ML & KJ

Date/Time On-Site: 3/30/26 1635

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1642	-0.4	0	0	13.4

Enable Condition or Velocity Cutoff:	1.00"
Deadband:	1.00"
Trigger Volume:	1646

- [x] Check desiccant on flowmeter and sampler
- [x] Install batteries on flowmeter and sampler
- [x] Perform decon. cycle
- [x] Install 15L sample bottle, with ice
- [x] Leave bottle lid at site, in a clean re-sealable plastic bag
- [x] Verify all cable and tubing connections
- [x] Check date and time on flowmeter and sampler
- [x] Set flowmeter program and sampler program parameters
- [x] Set logging interval to 1 minute
- [x] Start flowmeter program and sampler program
- [x] Verify running

Comments:

- Roadway is very muddy from construction + stockpiling on closed road.
- Photos taken.
- strainer appears clear.

Date/Time Off-Site: 3/30/26 1653

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/2/26 1056

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1055	0.24	0.00	0.00	12.3

Downloaded to:	ST USB

If flow monitoring is complete:	If continuing to monitor flow:
[x] Halt program on flowmeter	☐ Replace flowmeter battery
[x] Download flowmeter data	☐ Reset logging interval to 15 minutes
[x] Remove flowmeter battery	☐ Change velocity cutoff to 0.02 fps
	☐ Start program
	☐ Verify running

Comments:

Date/Time Off-Site: 4/2/26 1112

STATION: AS_6
Personnel: ST, CL

Bottle 1 **of** 1
Date/Time On-Site: 03/31/26 23:16

☐ Halt sampler program		
☐ Put lid on sample bottle; label sample bottle		
Sample ID:	260331-206	-WC
Approx Sample Volume (mL):	6500 mL	
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	03/31 22:37	Success	13		
2	22:45		14		
3	22:51		15		
4	22:57		16		
5	23:03		17		
6	23:09		18		
7	2316		19		
8	2325		20		
9	2338		21		
10	4/1/26 0011		22		
11	0215		23		
12			24		

Comments:

Date/Time Off-Site: 4/1/26 4:21

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☑ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle, add ice
☑ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	~~5750 mL~~	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Attachment D: Storm Event Analytical Reports

Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00461-01	ACST1B	260331-03-WG	Water		3/31/26 23:01	4/1/26 6:05
AC00461-02	ACST1B	260331-03-101	Water		3/31/26 12:00	4/1/26 6:05
AC00461-03	ACST1B	260331-03-001	Water		3/31/26 12:00	4/1/26 6:05
AC00461-04	ACST1B	260331-11-WG	Water		3/31/26 23:37	4/1/26 6:05

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document
No duplication of this report is allowed, except in its entirety

Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260331-03-WG
Date/Time Collected:	03/31/2026 23:01		
Lab Number:	AC00461-01	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260976	156.6	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/01/26 06:47	4/2/26 7:57	A.T	
Wet Chemistry										
Chlorine Screen	B260998	Absent	mg/L			SM 4500-CL G-2000 mod	04/01/26	4/1/26 6:53	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document
No duplication of this report is allowed, except in its entirety

Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260331-03-101
Date/Time Collected:	03/31/2026 12:00		
Lab Number:	AC00461-02	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260976	167.0	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/01/26 06:47	4/2/26 7:57	A.T	H
Wet Chemistry										
Chlorine Screen	B260998	Absent	mg/L			SM 4500-CL G-2000 mod	04/01/26	4/1/26 6:53	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document
No duplication of this report is allowed, except in its entirety

Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260331-03-001
Date/Time Collected:	03/31/2026 12:00		
Lab Number:	AC00461-03	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260976	<1.0	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/01/26 06:47	4/2/26 7:57	A.T	H U
Wet Chemistry										
Chlorine Screen	B260998	Absent	mg/L			SM 4500-CL G-2000 mod	04/01/26	4/1/26 6:53	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document
No duplication of this report is allowed, except in its entirety

Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260331-11-WG
Date/Time Collected:	03/31/2026 23:37		
Lab Number:	AC00461-04	Sample Collector:	S.E
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260976	1990.0	MPN/100 mL	100	1.0	IDEXX - Colilert	04/01/26 06:47	4/2/26 7:57	A.T	D
Wet Chemistry										
Chlorine Screen	B260998	Absent	mg/L			SM 4500-CL G-2000 mod	04/01/26	4/1/26 6:53	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Microbiology									
Batch: B260976									
Blank (B260976-BLK1)									
E. Coli	Absent						04/02/2026	A.T	
LCS (B260976-BS1)									
E. Coli				Present			04/02/2026	A.T	
Duplicate (B260976-DUP1)	Source ID: AC00461-01								
E. Coli					Pass	128	04/02/2026	A.T	

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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Notes and Definitions

Item	Definition
D	Data reported from a dilution
H	Hold time Exceeded.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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No duplication of this report is allowed, except in its entirety

Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050
Project: Stormwater PI
Sampler(s): Steven Turner
Saroni Eckersell

Lab# AC004161	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	E. Coli - IDEXX Colilert	Total Containers
-01	3/31/26		2301		260331-03-WG	ST	X	X		X	1
-02	3/31/26		1200		260331-03-101	ST	X	X		X	1
-03	3/31/26		1200		260331-03-001	ST	X	X		X	1
-04	3/31/26		2337		260331-11-WG	~~ST~~ SE	X	X		X	1

Analysis Methods: BOD_5 - SM 5210 B; COD - Hach 8000; TSS - SM 2540 D; TDS - SM 2540 C; TKN - EPA 351.2; TP - EPA 200.7; Orthophosphate - EPA 365.1; Total As, Cd, Pb - EPA 200.8; Diss. Cd Cu, Pb, Zn - EPA 200.8; Total Hg - EPA 245.1; Turbidity - EPA 180.1; Hardness - SM 2340 B-2011; NO_3+NO_2 - EPA 353.2; Timberline Ammonia-001; Chloride - EPA 300.0

Relinquished by (sign)	Date &Time Transferred	Received by (sign)
Steven Turner	3/31/26 2349	3/31/26 2349
Kristi Gilliff	4/1/26 0228	4/1/26 0605

Comments/ Special Instructions

251006 ST

COC_WQL-PI

AC004161

Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description		Matrix	Qualifiers	Sampled	Received
AC00463-01	ACST1B	~~260401-12-WG~~	260331-12-W6	Water		4/1/26 2:00	4/1/26 6:05
AC00463-02	ACST1B	~~260401-14-WG~~	260331-14-W6	Water		4/1/26 1:36	4/1/26 6:05

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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260331-12-W6 ~~260401-12-WG~~ MK
Date/Time Collected:	04/01/2026 02:00		
Lab Number:	AC00463-01	Sample Collector:	C.L
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260976	141360	MPN/100 mL	100	1.0	IDEXX - Colilert	04/01/26 06:47	4/2/26 7:57	A.T	D
Wet Chemistry										
Chlorine Screen	B260998	Absent	mg/L			SM 4500-CL G-2000 mod	04/01/26	4/1/26 6:57	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260331-14-WG ~~260401-14-WG~~ Mall
Date/Time Collected:	04/01/2026 01:36		
Lab Number:	AC00463-02	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260976	816.4	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/01/26 06:47	4/2/26 7:57	A.T	
Wet Chemistry										
Chlorine Screen	B260998	Absent	mg/L			SM 4500-CL G-2000 mod	04/01/26	4/1/26 6:57	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Microbiology									
Batch: B260976									
Blank (B260976-BLK1)									
E. Coli	Absent						04/02/2026	A.T	
LCS (B260976-BS1)									
E. Coli				Present			04/02/2026	A.T	
Duplicate (B260976-DUP1)	Source ID: AC00461-01								
E. Coli					Pass	128	04/02/2026	A.T	

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document
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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Notes and Definitions

Item	Definition
D	Data reported from a dilution
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristen Jolliffe
Caden Lewis
Steven Turner Sammi Eckersell

Analysis Methods

Lab# ACQ0463	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
-01	4/1/26		0200		260331-12-W6 ~~260401-12-W6~~ MK	KL	X	X												X						1
-02	4/1/26		0136		260331-14-W6 ~~260401-14-W6~~ MK	ST	X	X												X						1

Relinquished by (sign)	Date &Time Transferred	Received by (sign)	Comments/ Special Instructions
Kristen Jolliffe	4/1/26 0228	4/1/26 0405	

251006 ST

DC_WQL-PI

APPROVED

Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00462-01	ACST1B	~~260401-206-WG~~ 260331-206-WG	Water		4/1/26 0:56	4/1/26 6:05

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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location: ACST1B
Date/Time Collected: 04/01/2026 00:56
Lab Number: AC00462-01
Sample Type: Grab

Location Description: 260331-206-WG ~~260401-206-WG~~ mrh

Sample Collector: C.L
Sample Matrix: Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B260976	6500	MPN/100 mL	100	1.0	IDEXX - Colilert	04/01/26 06:47	4/2/26 9:25	A.T	D
Wet Chemistry										
Chlorine Screen	B260998	Absent	mg/L			SM 4500-CL G-2000 mod	04/01/26	4/1/26 6:57	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Microbiology									
Batch: B260976									
Blank (B260976-BLK1)									
E. Coli	Absent						04/02/2026	A.T	
LCS (B260976-BS1)									
E. Coli				Present			04/02/2026	A.T	
Duplicate (B260976-DUP1)	Source ID: AC00461-01								
E. Coli					Pass	128	04/02/2026	A.T	

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Report Date: 04/08/2026 11:41

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Notes and Definitions

Item	Definition
D	Data reported from a dilution
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Azubike Emenari
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACH

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Kristen Jolliffe
Caden Lewis

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD$_5$ - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
AC02462																										
-01	4/1/26		0056 ~~0102~~		260331-206-W6 ~~260401-206-W6~~ MnR	CL	X	X												X						1

Relinquished by (sign)	Date &Time Transferred	Received by (sign)	Comments/ Special Instructions
Kristen Jolliffe	4/1/26 0328	[signature]	4/1/26 0405

DC_WQL-PI

251006 S

AC02462

Report Date: 05/12/2026 10:34

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00464-01	ACST1C	260331-11-WC	Water		4/1/26 0:13	4/1/26 6:55
AC00464-02	ACST1C	260331-12-WC	Water		4/1/26 2:06	4/1/26 6:55
AC00464-03	ACST1C	260331-14-WC	Water		4/1/26 3:44	4/1/26 6:55

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Report Date: 05/12/2026 10:34

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1C	Location Description:	260331-11-WC
Date/Time Collected:	03/31/2026 22:40 - 04/01/2026 00:13		
Lab Number:	AC00464-01	Sample Collector:	S.T
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B261088	0.986	mg/L	0.0600	0.0600	Timberline Ammonia-001	04/09/26	4/9/26 10:20	ALN	
BOD5	B260996	28.7	mg/L	2.00	2.00	SM 5210 B-2016	04/02/26	4/7/26 11:26	RHC	
Chloride	B261326	26.0	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	04/29/26	4/29/26 13:31	BAK	
COD	B260981	162	mg/L	7.00	7.00	HH 8000, SM 5220D	04/01/26	4/1/26 11:17	ARE	
Nitrate-Nitrite, as N	B261100	0.792	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	04/09/26	4/9/26 17:15	EDM	
TKN	B261112	3.38	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	04/10/26	4/10/26 16:27	EDM	
Total Dissolved Solids	B261011	155	mg/L	25.0	25.0	SM 2540 C-2015	04/03/26	4/4/26 8:31	RHC	
Total Suspended Solids	B261004	107	mg/L	0.900	0.900	SM 2540 D-2015	04/02/26	4/2/26 10:32	GRC	
Turbidity	B260982	17.4	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	04/01/26	4/1/26 10:26	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260975	0.404	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	04/01/26	4/1/26 10:16	EDM	
Total Metals										
Mercury	B261071	0.0184	ug/L	6.00E-3	6.00E-3	EPA 245.1	04/08/26	4/8/26 13:09	SAS	J
Arsenic	B261027	3.0	ug/L	0.050	0.050	EPA 200.8	04/04/26	4/11/26 14:59	DMW	
Cadmium	B261027	0.10	ug/L	0.010	0.010	EPA 200.8	04/04/26	4/11/26 14:59	DMW	
Calcium	B261034	20.3	mg/L	0.0500	0.0500	EPA 200.7	04/06/26	4/7/26 10:33	AMO	
Lead	B261027	5.8	ug/L	0.010	0.010	EPA 200.8	04/04/26	4/11/26 14:59	DMW	
Magnesium	B261034	3850	ug/L	40.0	40.0	EPA 200.7	04/06/26	4/7/26 10:33	AMO	
Phosphorus as P	B261034	0.710	mg/L	0.0110	0.0110	EPA 200.7	04/06/26	4/7/26 10:33	AMO	
Hardness	B261034	66.5	mg/L	0.125	0.125	SM 2340 B-2011	04/06/26	4/7/26 10:33	AMO	
Dissolved Metals										
Cadmium	B261026	0.013	ug/L	0.010	0.010	EPA 200.8	04/24/26	4/24/26 16:30	DMW	
Copper	B261026	6.0	ug/L	0.14	0.14	EPA 200.8	04/24/26	4/24/26 16:30	DMW	
Lead	B261026	0.25	ug/L	5.00E-3	5.00E-3	EPA 200.8	04/24/26	4/24/26 16:30	DMW	
Zinc	B261026	28.7	ug/L	0.50	0.50	EPA 200.8	04/24/26	4/24/26 16:30	DMW	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Report Date: 05/12/2026 10:34

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1C	Location Description:	260331-12-WC
Date/Time Collected:	03/31/2026 22:18 - 04/01/2026 02:06		
Lab Number:	AC00464-02	Sample Collector:	S.T
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B261088	1.31	mg/L	0.0600	0.0600	Timberline Ammonia-001	04/09/26	4/9/26 9:59	ALN	
BOD5	B260996	21.7	mg/L	2.00	2.00	SM 5210 B-2016	04/02/26	4/7/26 11:37	RHC	
Chloride	B261326	7.18	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	04/29/26	4/29/26 13:56	BAK	
COD	B260981	160	mg/L	7.00	7.00	HH 8000, SM 5220D	04/01/26	4/1/26 11:17	ARE	
Nitrate-Nitrite, as N	B261100	0.447	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	04/09/26	4/9/26 17:20	EDM	
TKN	B261112	3 10	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	04/10/26	4/10/26 16:28	EDM	
Total Dissolved Solids	B261011	79.0	mg/L	25.0	25.0	SM 2540 C-2015	04/02/26	4/3/26 16:17	RHC	
Total Suspended Solids	B261004	154	mg/L	0.900	0.900	SM 2540 D-2015	04/02/26	4/2/26 10:33	GRC	
Turbidity	B260982	20.9	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	04/01/26	4/1/26 10:41	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260975	0.128	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	04/01/26	4/1/26 10:20	EDM	
Total Metals										
Mercury	B261071	0.0180	ug/L	6.00E-3	6.00E-3	EPA 245.1	04/08/26	4/8/26 13:26	SAS	J
Arsenic	B261027	2.3	ug/L	0.050	0.050	EPA 200.8	04/04/26	4/11/26 15:09	DMW	
Cadmium	B261027	0.15	ug/L	0.010	0.010	EPA 200.8	04/04/26	4/11/26 15:09	DMW	
Calcium	B261034	6.75	mg/L	0.0500	0.0500	EPA 200.7	04/06/26	4/7/26 10:36	AMO	
Lead	B261027	8.0	ug/L	0.010	0.010	EPA 200.8	04/04/26	4/11/26 15:09	DMW	
Magnesium	B261034	1570	ug/L	40.0	40.0	EPA 200.7	04/06/26	4/7/26 10:36	AMO	
Phosphorus as P	B261034	0.326	mg/L	0.0110	0.0110	EPA 200.7	04/06/26	4/7/26 10:36	AMO	
Hardness	B261034	23.3	mg/L	0.125	0.125	SM 2340 B-2011	04/06/26	4/7/26 10:36	AMO	
Dissolved Metals										
Cadmium	B261026	0.020	ug/L	0.010	0.010	EPA 200.8	04/24/26	4/24/26 16:34	DMW	
Copper	B261026	7.2	ug/L	0.14	0.14	EPA 200.8	04/24/26	4/24/26 16:34	DMW	
Lead	B261026	0.13	ug/L	5.00E-3	5.00E-3	EPA 200.8	04/24/26	4/24/26 16:34	DMW	
Zinc	B261026	43.4	ug/L	0.50	0.50	EPA 200.8	04/24/26	4/24/26 16:34	DMW	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Boise City Public Works
Water Quality Laboratory
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Analysis Report

Location:	ACST1C	Location Description:	260331-14-WC
Date/Time Collected:	03/31/2026 22:18 - 04/01/2026 03:44		
Lab Number:	AC00464-03	Sample Collector:	S.T
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B261088	0.996	mg/L	0.0600	0.0600	Timberline Ammonia-001	04/09/26	4/9/26 10:06	ALN	
BOD5	B260996	28.3	mg/L	2.00	2.00	SM 5210 B-2016	04/02/26	4/7/26 11:47	RHC	
Chloride	B261326	44.6	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	04/29/26	4/29/26 14:22	BAK	
COD	B260981	146	mg/L	7.00	7.00	HH 8000, SM 5220D	04/01/26	4/1/26 11:17	ARE	
Nitrate-Nitrite, as N	B261100	1.10	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	04/09/26	4/9/26 17:21	EDM	
TKN	B261112	2.78	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	04/10/26	4/10/26 16:30	EDM	
Total Dissolved Solids	B261011	203	mg/L	25.0	25.0	SM 2540 C-2015	04/02/26	4/3/26 16:18	RHC	
Total Suspended Solids	B261004	99.1	mg/L	0.900	0.900	SM 2540 D-2015	04/02/26	4/2/26 10:35	GRC	
Turbidity	B260982	15.7	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	04/01/26	4/1/26 10:48	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260975	0.262	mg/L	3.00E-3	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	04/01/26	4/1/26 10:21	EDM	
Total Metals										
Mercury	B261071	0.0132	ug/L	6.00E-3	6.00E-3	EPA 245.1	04/08/26	4/8/26 13:30	SAS	J
Arsenic	B261027	4.4	ug/L	0.050	0.050	EPA 200.8	04/04/26	4/11/26 15:11	DMW	
Cadmium	B261027	0.12	ug/L	0.010	0.010	EPA 200.8	04/04/26	4/11/26 15:11	DMW	
Calcium	B261034	28.2	mg/L	0.0500	0.0500	EPA 200.7	04/06/26	4/7/26 10:39	AMO	
Lead	B261027	5.2	ug/L	0.010	0.010	EPA 200.8	04/04/26	4/11/26 15:11	DMW	
Magnesium	B261034	5430	ug/L	40.0	40.0	EPA 200.7	04/06/26	4/7/26 10:39	AMO	
Phosphorus as P	B261034	0.504	mg/L	0.0110	0.0110	EPA 200.7	04/06/26	4/7/26 10:39	AMO	
Hardness	B261034	92.8	mg/L	0.125	0.125	SM 2340 B-2011	04/06/26	4/7/26 10:39	AMO	
Dissolved Metals										
Cadmium	B261026	0.017	ug/L	0.010	0.010	EPA 200.8	04/24/26	4/24/26 16:39	DMW	
Copper	B261026	7.1	ug/L	0.14	0.14	EPA 200.8	04/24/26	4/24/26 16:39	DMW	
Lead	B261026	0.15	ug/L	5.00E-3	5.00E-3	EPA 200.8	04/24/26	4/24/26 16:39	DMW	
Zinc	B261026	38.2	ug/L	0.50	0.50	EPA 200.8	04/24/26	4/24/26 16:39	DMW	

* The reported adjusted "MDL" is sample-specific The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry									
Batch: B260981									
Blank (B260981-BLK1)									
COD	<7	mg/L					04/01/2026	ARE	U
LCS (B260981-BS1)									
COD			98.3	90-110			04/01/2026	ARE	
Duplicate (B260981-DUP1)	Source ID: AC00464-01								
COD					2.50	10	04/01/2026	ARE	
Batch: B260982									
Blank (B260982-BLK1)									
Turbidity	<0.3	NTU					04/01/2026	ALN	U
LCS (B260982-BS1)									
Turbidity			104	90-110			04/01/2026	ALN	
Duplicate (B260982-DUP1)	Source ID: AC00464-01								
Turbidity					3.02	25	04/01/2026	ALN	
Batch: B260996									
Blank (B260996-BLK1)									
BOD5	<2	mg/L					04/07/2026	RHC	Seed-01, U
LCS (B260996-BS1)									
BOD5			102	84.6-115.4			04/07/2026	RHC	
LCS (B260996-BS2)									
BOD5			101	84.6-115 4			04/07/2026	RHC	
Duplicate (B260996-DUP1)	Source ID: BB05545-02								
BOD5					3.94	30	04/07/2026	RHC	D
Batch: B261004									
Blank (B261004-BLK1)									
Total Suspended Solids	<0.9	mg/L					04/02/2026	GRC	U
LCS (B261004-BS1)									
Total Suspended Solids			98.4	90-110			04/02/2026	GRC	
Duplicate (B261004-DUP1)	Source ID: BB05547-02								
Total Suspended Solids					1.65	20	04/02/2026	GRC	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261011									
Blank (B261011-BLK1)									
Total Dissolved Solids	<25	mg/L					04/03/2026	RHC	U
LCS (B261011-BS1)									
Total Dissolved Solids			101	90-110			04/03/2026	RHC	
Duplicate (B261011-DUP1) Source ID: AC00464-01									
Total Dissolved Solids					1.81	10	04/03/2026	RHC	
Batch: B261088									
Blank (B261088-BLK1)									
Ammonia, as N	<0.06	mg/L					04/09/2026	ALN	U
Blank (B261088-BLK2)									
Ammonia, as N	<0.06	mg/L					04/09/2026	ALN	U
LCS (B261088-BS1)									
Ammonia, as N			103	90-110			04/09/2026	ALN	
LCS (B261088-BS2)									
Ammonia, as N			105	90-110			04/09/2026	ALN	
Duplicate (B261088-DUP1) Source ID: AC00464-01									
Ammonia, as N					1.11	20	04/09/2026	ALN	
Duplicate (B261088-DUP2) Source ID: BB05552-02									
Ammonia, as N					0.751	20	04/09/2026	ALN	D
Matrix Spike (B261088-MS1) Source ID: AC00464-01									
Ammonia, as N			107	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS2) Source ID: BB05552-02									
Ammonia, as N			107	84-115			04/09/2026	ALN	D
Matrix Spike (B261088-MS3) Source ID: EP00549-01									
Ammonia, as N			110	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS4) Source ID: EP00549-02									
Ammonia, as N			111	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS5) Source ID: EP00550-01									
Ammonia, as N			103	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS6) Source ID: EP00551-01									
Ammonia, as N			104	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS7) Source ID: EP00552-01									
Ammonia, as N			107	84-115			04/09/2026	ALN	
Matrix Spike Dup (B261088-MSD1) Source ID: AC00464-01									
Ammonia, as N			109	84-115	1.98	20	04/09/2026	ALN	
Matrix Spike Dup (B261088-MSD2) Source ID: BB05552-02									
Ammonia, as N			107	84-115	0 226	20	04/09/2026	ALN	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261100									
Blank (B261100-BLK1)									
Nitrate-Nitrite, as N	<0.025	mg/L					04/09/2026	EDM	U
Blank (B261100-BLK2)									
Nitrate-Nitrite, as N	<0.025	mg/L					04/09/2026	EDM	U
LCS (B261100-BS1)									
Nitrate-Nitrite, as N			97.6	90-110			04/09/2026	EDM	
LCS (B261100-BS2)									
Nitrate-Nitrite, as N			95.0	90-110			04/09/2026	EDM	
Duplicate (B261100-DUP1) Source ID: AC00464-01									
Nitrate-Nitrite, as N					0.206	10	04/09/2026	EDM	
Duplicate (B261100-DUP2) Source ID: BB05557-02									
Nitrate-Nitrite, as N					0.0366	10	04/09/2026	EDM	
Duplicate (B261100-DUP3) Source ID: WB04304-06									
Nitrate-Nitrite, as N					0.305	10	04/09/2026	EDM	
Matrix Spike (B261100-MS1) Source ID: AC00464-01									
Nitrate-Nitrite, as N			94.7	90-110			04/09/2026	EDM	
Matrix Spike (B261100-MS2) Source ID: BB05557-02									
Nitrate-Nitrite, as N			91.1	90-110			04/09/2026	EDM	
Matrix Spike (B261100-MS3) Source ID: WB04304-06									
Nitrate-Nitrite, as N			91.0	90-110			04/09/2026	EDM	
Matrix Spike Dup (B261100-MSD1) Source ID: AC00464-01									
Nitrate-Nitrite, as N			95.2	90-110	0.283	10	04/09/2026	EDM	
Matrix Spike Dup (B261100-MSD2) Source ID: BB05557-02									
Nitrate-Nitrite, as N			88.4	90-110	0.229	10	04/09/2026	EDM	M-09
Matrix Spike Dup (B261100-MSD3) Source ID: WB04304-06									
Nitrate-Nitrite, as N			91.4	90-110	0.0862	10	04/09/2026	EDM	
Batch: B261112									
Blank (B261112-BLK1)									
TKN	<0.1	mg/L					04/10/2026	EDM	U
Blank (B261112-BLK2)									
TKN	<0.1	mg/L					04/10/2026	EDM	U
LCS (B261112-BS1)									
TKN			83.9	80-120			04/10/2026	EDM	
LCS (B261112-BS2)									
TKN			89 8	80-120			04/10/2026	EDM	
Duplicate (B261112-DUP1) Source ID: BB05547-01									
TKN					4.22	20	04/10/2026	EDM	D
Duplicate (B261112-DUP2) Source ID: BB05559-03									
TKN					0.968	20	04/10/2026	EDM	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261112 (Continued)									
Duplicate (B261112-DUP3) Source ID: LS02684-05									
TKN					4.88	20	04/10/2026	EDM	D
Matrix Spike (B261112-MS1) Source ID: BB05547-01									
TKN			84.7	80-120			04/10/2026	EDM	D
Matrix Spike (B261112-MS2) Source ID: BB05559-03									
TKN			101	80-120			04/10/2026	EDM	D
Matrix Spike (B261112-MS3) Source ID: LS02684-05									
TKN			103	80-120			04/10/2026	EDM	D
Matrix Spike (B261112-MS4) Source ID: EP00548-01									
TKN			101	80-120			04/10/2026	EDM	
Matrix Spike (B261112-MS6) Source ID: EP00549-02									
TKN			99.2	80-120			04/10/2026	EDM	
Matrix Spike Dup (B261112-MSD1) Source ID: BB05547-01									
TKN			86.9	80-120	1.33	20	04/10/2026	EDM	D
Matrix Spike Dup (B261112-MSD2) Source ID: BB05559-03									
TKN			98.5	80-120	1.19	20	04/10/2026	EDM	D
Matrix Spike Dup (B261112-MSD3) Source ID: LS02684-05									
TKN			107	80-120	1.65	20	04/10/2026	EDM	D
Batch: B261326									
Blank (B261326-BLK1)									
Chloride	<0.5	mg/L					04/29/2026	BAK	U
LCS (B261326-BS1)									
Chloride			95.5	90-110			04/29/2026	BAK	
Duplicate (B261326-DUP1) Source ID: BB05617-03									
Chloride					1.51	10	04/29/2026	BAK	D
Duplicate (B261326-DUP2) Source ID: AC00468-01									
Chloride					0.226	10	04/29/2026	BAK	
Matrix Spike (B261326-MS1) Source ID: BB05617-03									
Chloride			96.3	90-110			04/29/2026	BAK	D
Matrix Spike (B261326-MS2) Source ID: AC00468-01									
Chloride			94.8	90-110			04/29/2026	BAK	
Matrix Spike Dup (B261326-MSD1) Source ID: BB05617-03									
Chloride			97.0	90-110	0.388	10	04/29/2026	BAK	D
Matrix Spike Dup (B261326-MSD2) Source ID: AC00468-01									
Chloride			96.1	90-110	1.20	10	04/29/2026	BAK	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Wet Chemistry									
Batch: B260975									
Blank (B260975-BLK1)									
Orthophosphate, as P	<0.003	mg/L					04/01/2026	EDM	U
LCS (B260975-BS1)									
Orthophosphate, as P			95.8	90-110			04/01/2026	EDM	
Duplicate (B260975-DUP1) Source ID: LS02684-02									
Orthophosphate, as P					0.0467	10	04/01/2026	EDM	D
Duplicate (B260975-DUP2) Source ID: AC00464-01									
Orthophosphate, as P					0.215	10	04/01/2026	EDM	
Matrix Spike (B260975-MS1) Source ID: LS02684-02									
Orthophosphate, as P			97.1	90-110			04/01/2026	EDM	D
Matrix Spike (B260975-MS2) Source ID: AC00464-01									
Orthophosphate, as P			92.4	90-110			04/01/2026	EDM	
Matrix Spike Dup (B260975-MSD1) Source ID: LS02684-02									
Orthophosphate, as P			96.8	90-110	0.167	10	04/01/2026	EDM	D
Matrix Spike Dup (B260975-MSD2) Source ID: AC00464-01									
Orthophosphate, as P			92.6	90-110	0.0369	10	04/01/2026	EDM	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals									
Batch: B261027									
Blank (B261027-BLK1)									
Arsenic	<0.050	ug/L					04/11/2026	DMW	U
Cadmium	<0.010	ug/L					04/11/2026	DMW	U
Lead	<0.010	ug/L					04/11/2026	DMW	U
LCS (B261027-BS1)									
Arsenic			96.7	85-115			04/11/2026	DMW	
Cadmium			96.4	85-115			04/11/2026	DMW	
Lead			98.1	85-115			04/11/2026	DMW	
Duplicate (B261027-DUP1) Source ID: AC00464-01									
Arsenic					2.56	20	04/11/2026	DMW	
Cadmium					5.71	20	04/11/2026	DMW	
Lead					1.97	20	04/11/2026	DMW	
Matrix Spike (B261027-MS1) Source ID: AC00464-01									
Arsenic			97.8	70-130			04/11/2026	DMW	
Cadmium			97.8	70-130			04/11/2026	DMW	
Lead			96.5	70-130			04/11/2026	DMW	
Matrix Spike Dup (B261027-MSD1) Source ID: AC00464-01									
Arsenic			98.1	70-130	0.241	20	04/11/2026	DMW	
Cadmium			97.7	70-130	0.184	20	04/11/2026	DMW	
Lead			97.3	70-130	0.501	20	04/11/2026	DMW	
Batch: B261034									
Blank (B261034-BLK1)									
Calcium	<0.05	mg/L					04/07/2026	AMO	U
Magnesium	<40	ug/L					04/07/2026	AMO	U
Phosphorus as P	<0.011	mg/L					04/07/2026	AMO	U
LCS (B261034-BS1)									
Calcium			97.2	85-115			04/07/2026	AMO	
Magnesium			96.8	85-115			04/07/2026	AMO	
Phosphorus as P			104	85-115			04/07/2026	AMO	
Duplicate (B261034-DUP1) Source ID: AC00464-03									
Calcium					0.605	20	04/07/2026	AMO	
Magnesium					1.53	20	04/07/2026	AMO	
Phosphorus as P					3.22	20	04/07/2026	AMO	
Matrix Spike (B261034-MS1) Source ID: AC00464-03									
Calcium			99.5	70-130			04/07/2026	AMO	
Magnesium			97.7	70-130			04/07/2026	AMO	
Phosphorus as P			106	70-130			04/07/2026	AMO	
Matrix Spike Dup (B261034-MSD1) Source ID: AC00464-03									
Calcium			101	70-130	0.332	20	04/07/2026	AMO	
Magnesium			97.2	70-130	0.381	20	04/07/2026	AMO	
Phosphorus as P			104	70-130	0.738	20	04/07/2026	AMO	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals (Continued)									
Batch: B261071									
Blank (B261071-BLK1)									
Mercury	<0.006	ug/L					04/08/2026	SAS	U
LCS (B261071-BS1)									
Mercury			100	85-115			04/08/2026	SAS	
Duplicate (B261071-DUP1) Source ID: AC00464-01									
Mercury					10.3	20	04/08/2026	SAS	J
Duplicate (B261071-DUP2) Source ID: WB04316-06									
Mercury					31.8	20	04/08/2026	SAS	Cust-01, J
Matrix Spike (B261071-MS1) Source ID: AC00464-01									
Mercury			96.8	70-130			04/08/2026	SAS	
Matrix Spike (B261071-MS2) Source ID: WB04316-06									
Mercury			161	70-130			04/08/2026	SAS	Cust-01
Matrix Spike Dup (B261071-MSD1) Source ID: AC00464-01									
Mercury			99.3	70-130	2.16	20	04/08/2026	SAS	
Matrix Spike Dup (B261071-MSD2) Source ID: WB04316-06									
Mercury			94.2	70-130	43.6	20	04/08/2026	SAS	Cust-01
Dissolved Metals									
Batch: B261026									
Blank (B261026-BLK1)									
Cadmium	<0.010	ug/L					04/24/2026	DMW	U
Copper	<0.14	ug/L					04/24/2026	DMW	U
Lead	<0.0050	ug/L					04/24/2026	DMW	U
Zinc	<0.50	ug/L					04/24/2026	DMW	U
LCS (B261026-BS1)									
Cadmium			98.9	85-115			04/24/2026	DMW	
Copper			103	85-115			04/24/2026	DMW	
Lead			105	85-115			04/24/2026	DMW	
Zinc			102	85-115			04/24/2026	DMW	
Duplicate (B261026-DUP1) Source ID: AC00468-02									
Cadmium					NR	10	04/24/2026	DMW	U
Copper					0.243	10	04/24/2026	DMW	
Lead					1.54	10	04/24/2026	DMW	
Zinc					0.199	10	04/24/2026	DMW	
Matrix Spike (B261026-MS1) Source ID: AC00468-02									
Cadmium			96.7	70-130			04/24/2026	DMW	
Copper			95.8	70-130			04/24/2026	DMW	
Lead			99.1	70-130			04/24/2026	DMW	
Zinc			95.3	70-130			04/24/2026	DMW	
Matrix Spike Dup (B261026-MSD1) Source ID: AC00468-02									
Cadmium			95.8	70-130	0.998	10	04/24/2026	DMW	
Copper			96.3	70-130	0.325	10	04/24/2026	DMW	
Lead			99.1	70-130	0.0384	10	04/24/2026	DMW	
Zinc			96.4	70-130	0.693	10	04/24/2026	DMW	

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Notes and Definitions

Item	Definition
Cust-01	QC failures attributed to sample non-homogeneity observed in triplicate digestions. Other batch QC acceptable. Reanalysis not possible due to holding time exceedance. Data qualified for reduced precision/bias.
D	Data reported from a dilution
J	Estimated value
M-09	At least one Matrix Spike recovers within the acceptance criteria for the analyte. Matrix interference for the analyte is not suspected in reported result.
Seed-01	The seed depletion is greater than that recommended by the method. The LCS is acceptable showing the seed supports the method.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Cavan Gerrish
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714–6418
Tel. (208) 407–4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Steven Turner
Caden Lewis
Kristen Tollette Sammi Eckersell

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg – EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride – EPA 300.0	Total Containers
AC00464-01	3/31/26	4/1/26	2240	0013	260331-11-WC	ST	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	1
-02	3/31/26	4/1/26	2218	0206	260331-12 WC	ST	X		X	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓	1
-03	3/31/26	4/1/26	2218	0344	260331-14-WC	ST	X		X	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓	1

Relinquished by (sign) | **Date &Time Transferred** | **Received by (sign)**

4/1/26 0519 0055 4-1-26

Comments/ Special Instructions

AC00464

COC_WQL-PI

Report Date: 05/12/2026 10:34

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
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Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00465-01	ACST1C	260331-206-WC	Water		4/1/26 2:15	4/1/26 6:55

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Analysis Report

Location:	ACST1C	Location Description:	260331-206-WC
Date/Time Collected:	03/31/2026 22:37 - 04/01/2026 02:15		
Lab Number:	AC00465-01	Sample Collector:	S.T
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B261088	1.98	mg/L	0.0600	0.0600	Timberline Ammonia-001	04/09/26	4/9/26 10:02	ALN	
BOD5	B260996	76.7	mg/L	2.00	2.00	SM 5210 B-2016	04/02/26	4/7/26 11:58	RHC	
Chloride	B261326	7.77	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	04/29/26	4/29/26 16:26	BAK	
COD	B260981	243	mg/L	7.00	7.00	HH 8000, SM 5220D	04/01/26	4/1/26 11:19	ARE	
Nitrate-Nitrite, as N	B261100	0.505	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	04/09/26	4/9/26 17:22	EDM	
TKN	B261112	7.53	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	04/10/26	4/10/26 16:31	EDM	
Total Dissolved Solids	B261011	161	mg/L	25.0	25.0	SM 2540 C-2015	04/02/26	4/3/26 16:19	RHC	
Total Suspended Solids	B261004	166	mg/L	0.900	0.900	SM 2540 D-2015	04/02/26	4/2/26 10:36	GRC	
Turbidity	B260982	21.8	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	04/01/26	4/1/26 10:55	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B260975	1.12	mg/L	0.0150	3.00E-3	EPA 365.1, Rev. 2.0 (1993)	04/01/26	4/1/26 11:35	EDM	D
Total Metals										
Mercury	B261071	0.0207	ug/L	6.00E-3	6.00E-3	EPA 245.1	04/08/26	4/8/26 13:40	SAS	J
Arsenic	B261027	3.4	ug/L	0.050	0.050	EPA 200.8	04/04/26	4/11/26 15:13	DMW	
Cadmium	B261027	0.14	ug/L	0.010	0.010	EPA 200.8	04/04/26	4/11/26 15:13	DMW	
Calcium	B261034	10.4	mg/L	0.0500	0.0500	EPA 200.7	04/06/26	4/7/26 10:55	AMO	
Lead	B261027	8.5	ug/L	0.010	0.010	EPA 200.8	04/04/26	4/11/26 15:13	DMW	
Magnesium	B261034	2440	ug/L	40.0	40.0	EPA 200.7	04/06/26	4/7/26 10:55	AMO	
Phosphorus as P	B261034	1.61	mg/L	0.0110	0.0110	EPA 200.7	04/06/26	4/7/26 10:55	AMO	
Hardness	B261034	35.9	mg/L	0.125	0.125	SM 2340 B-2011	04/06/26	4/7/26 10:55	AMO	
Dissolved Metals										
Cadmium	B261026	0.028	ug/L	0.010	0.010	EPA 200.8	04/24/26	4/24/26 16:43	DMW	
Copper	B261026	13.1	ug/L	0.14	0.14	EPA 200.8	04/24/26	4/24/26 16:43	DMW	
Lead	B261026	0.94	ug/L	5.00E-3	5.00E-3	EPA 200.8	04/24/26	4/24/26 16:43	DMW	
Zinc	B261026	52.8	ug/L	0.50	0.50	EPA 200.8	04/24/26	4/24/26 16:43	DMW	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry									
Batch: B260981									
Blank (B260981-BLK1)									
COD	<7	mg/L					04/01/2026	ARE	U
LCS (B260981-BS1)									
COD			98.3	90-110			04/01/2026	ARE	
Duplicate (B260981-DUP1)	Source ID: AC00464-01								
COD					2.50	10	04/01/2026	ARE	
Batch: B260982									
Blank (B260982-BLK1)									
Turbidity	<0.3	NTU					04/01/2026	ALN	U
LCS (B260982-BS1)									
Turbidity			104	90-110			04/01/2026	ALN	
Duplicate (B260982-DUP1)	Source ID: AC00464-01								
Turbidity					3 02	25	04/01/2026	ALN	
Batch: B260996									
Blank (B260996-BLK1)									
BOD5	<2	mg/L					04/07/2026	RHC	Seed-01, U
LCS (B260996-BS1)									
BOD5			102	84.6-115.4			04/07/2026	RHC	
LCS (B260996-BS2)									
BOD5			101	84.6-115.4			04/07/2026	RHC	
Duplicate (B260996-DUP1)	Source ID: BB05545-02								
BOD5					3.94	30	04/07/2026	RHC	D
Batch: B261004									
Blank (B261004-BLK1)									
Total Suspended Solids	<0.9	mg/L					04/02/2026	GRC	U
LCS (B261004-BS1)									
Total Suspended Solids			98.4	90-110			04/02/2026	GRC	
Duplicate (B261004-DUP1)	Source ID: BB05547-02								
Total Suspended Solids					1.65	20	04/02/2026	GRC	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261011									
Blank (B261011-BLK1)									
Total Dissolved Solids	<25	mg/L					04/03/2026	RHC	U
LCS (B261011-BS1)									
Total Dissolved Solids			101	90-110			04/03/2026	RHC	
Duplicate (B261011-DUP1) Source ID: AC00464-01									
Total Dissolved Solids					1 81	10	04/03/2026	RHC	
Batch: B261088									
Blank (B261088-BLK1)									
Ammonia, as N	<0.06	mg/L					04/09/2026	ALN	U
Blank (B261088-BLK2)									
Ammonia, as N	<0.06	mg/L					04/09/2026	ALN	U
LCS (B261088-BS1)									
Ammonia, as N			103	90-110			04/09/2026	ALN	
LCS (B261088-BS2)									
Ammonia, as N			105	90-110			04/09/2026	ALN	
Duplicate (B261088-DUP1) Source ID: AC00464-01									
Ammonia, as N					1.11	20	04/09/2026	ALN	
Duplicate (B261088-DUP2) Source ID: BB05552-02									
Ammonia, as N					0 751	20	04/09/2026	ALN	D
Matrix Spike (B261088-MS1) Source ID: AC00464-01									
Ammonia, as N			107	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS2) Source ID: BB05552-02									
Ammonia, as N			107	84-115			04/09/2026	ALN	D
Matrix Spike (B261088-MS3) Source ID: EP00549-01									
Ammonia, as N			110	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS4) Source ID: EP00549-02									
Ammonia, as N			111	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS5) Source ID: EP00550-01									
Ammonia, as N			103	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS6) Source ID: EP00551-01									
Ammonia, as N			104	84-115			04/09/2026	ALN	
Matrix Spike (B261088-MS7) Source ID: EP00552-01									
Ammonia, as N			107	84-115			04/09/2026	ALN	
Matrix Spike Dup (B261088-MSD1) Source ID: AC00464-01									
Ammonia, as N			109	84-115	1.98	20	04/09/2026	ALN	
Matrix Spike Dup (B261088-MSD2) Source ID: BB05552-02									
Ammonia, as N			107	84-115	0.226	20	04/09/2026	ALN	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261100									
Blank (B261100-BLK1)									
Nitrate-Nitrite, as N	<0.025	mg/L					04/09/2026	EDM	U
Blank (B261100-BLK2)									
Nitrate-Nitrite, as N	<0.025	mg/L					04/09/2026	EDM	U
LCS (B261100-BS1)									
Nitrate-Nitrite, as N			97.6	90-110			04/09/2026	EDM	
LCS (B261100-BS2)									
Nitrate-Nitrite, as N			95.0	90-110			04/09/2026	EDM	
Duplicate (B261100-DUP1) Source ID: AC00464-01									
Nitrate-Nitrite, as N					0.206	10	04/09/2026	EDM	
Duplicate (B261100-DUP2) Source ID: BB05557-02									
Nitrate-Nitrite, as N					0.0366	10	04/09/2026	EDM	
Duplicate (B261100-DUP3) Source ID: WB04304-06									
Nitrate-Nitrite, as N					0.305	10	04/09/2026	EDM	
Matrix Spike (B261100-MS1) Source ID: AC00464-01									
Nitrate-Nitrite, as N			94.7	90-110			04/09/2026	EDM	
Matrix Spike (B261100-MS2) Source ID: BB05557-02									
Nitrate-Nitrite, as N			91.1	90-110			04/09/2026	EDM	
Matrix Spike (B261100-MS3) Source ID: WB04304-06									
Nitrate-Nitrite, as N			91.0	90-110			04/09/2026	EDM	
Matrix Spike Dup (B261100-MSD1) Source ID: AC00464-01									
Nitrate-Nitrite, as N			95.2	90-110	0.283	10	04/09/2026	EDM	
Matrix Spike Dup (B261100-MSD2) Source ID: BB05557-02									
Nitrate-Nitrite, as N			88.4	90-110	0.229	10	04/09/2026	EDM	M-09
Matrix Spike Dup (B261100-MSD3) Source ID: WB04304-06									
Nitrate-Nitrite, as N			91.4	90-110	0.0862	10	04/09/2026	EDM	
Batch: B261112									
Blank (B261112-BLK1)									
TKN	<0.1	mg/L					04/10/2026	EDM	U
Blank (B261112-BLK2)									
TKN	<0.1	mg/L					04/10/2026	EDM	U
LCS (B261112-BS1)									
TKN			83.9	80-120			04/10/2026	EDM	
LCS (B261112-BS2)									
TKN			89 8	80-120			04/10/2026	EDM	
Duplicate (B261112-DUP1) Source ID: BB05547-01									
TKN					4.22	20	04/10/2026	EDM	D
Duplicate (B261112-DUP2) Source ID: BB05559-03									
TKN					0.968	20	04/10/2026	EDM	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261112 (Continued)									
Duplicate (B261112-DUP3) Source ID: LS02684-05									
TKN					4.88	20	04/10/2026	EDM	D
Matrix Spike (B261112-MS1) Source ID: BB05547-01									
TKN			84.7	80-120			04/10/2026	EDM	D
Matrix Spike (B261112-MS2) Source ID: BB05559-03									
TKN			101	80-120			04/10/2026	EDM	D
Matrix Spike (B261112-MS3) Source ID: LS02684-05									
TKN			103	80-120			04/10/2026	EDM	D
Matrix Spike (B261112-MS4) Source ID: EP00548-01									
TKN			101	80-120			04/10/2026	EDM	
Matrix Spike (B261112-MS6) Source ID: EP00549-02									
TKN			99.2	80-120			04/10/2026	EDM	
Matrix Spike Dup (B261112-MSD1) Source ID: BB05547-01									
TKN			86.9	80-120	1.33	20	04/10/2026	EDM	D
Matrix Spike Dup (B261112-MSD2) Source ID: BB05559-03									
TKN			98.5	80-120	1.19	20	04/10/2026	EDM	D
Matrix Spike Dup (B261112-MSD3) Source ID: LS02684-05									
TKN			107	80-120	1.65	20	04/10/2026	EDM	D
Batch: B261326									
Blank (B261326-BLK1)									
Chloride	<0.5	mg/L					04/29/2026	BAK	U
LCS (B261326-BS1)									
Chloride			95.5	90-110			04/29/2026	BAK	
Duplicate (B261326-DUP1) Source ID: BB05617-03									
Chloride					1.51	10	04/29/2026	BAK	D
Duplicate (B261326-DUP2) Source ID: AC00468-01									
Chloride					0.226	10	04/29/2026	BAK	
Matrix Spike (B261326-MS1) Source ID: BB05617-03									
Chloride			96.3	90-110			04/29/2026	BAK	D
Matrix Spike (B261326-MS2) Source ID: AC00468-01									
Chloride			94.8	90-110			04/29/2026	BAK	
Matrix Spike Dup (B261326-MSD1) Source ID: BB05617-03									
Chloride			97.0	90-110	0.388	10	04/29/2026	BAK	D
Matrix Spike Dup (B261326-MSD2) Source ID: AC00468-01									
Chloride			96.1	90-110	1.20	10	04/29/2026	BAK	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Wet Chemistry									
Batch: B260975									
Blank (B260975-BLK1)									
Orthophosphate, as P	<0.003	mg/L					04/01/2026	EDM	U
LCS (B260975-BS1)									
Orthophosphate, as P			95.8	90-110			04/01/2026	EDM	
Duplicate (B260975-DUP1) Source ID: LS02684-02									
Orthophosphate, as P					0.0467	10	04/01/2026	EDM	D
Duplicate (B260975-DUP2) Source ID: AC00464-01									
Orthophosphate, as P					0.215	10	04/01/2026	EDM	
Matrix Spike (B260975-MS1) Source ID: LS02684-02									
Orthophosphate, as P			97.1	90-110			04/01/2026	EDM	D
Matrix Spike (B260975-MS2) Source ID: AC00464-01									
Orthophosphate, as P			92.4	90-110			04/01/2026	EDM	
Matrix Spike Dup (B260975-MSD1) Source ID: LS02684-02									
Orthophosphate, as P			96.8	90-110	0.167	10	04/01/2026	EDM	D
Matrix Spike Dup (B260975-MSD2) Source ID: AC00464-01									
Orthophosphate, as P			92.6	90-110	0.0369	10	04/01/2026	EDM	

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Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals									
Batch: B261027									
Blank (B261027-BLK1)									
Arsenic	<0.050	ug/L					04/11/2026	DMW	U
Cadmium	<0.010	ug/L					04/11/2026	DMW	U
Lead	<0.010	ug/L					04/11/2026	DMW	U
LCS (B261027-BS1)									
Arsenic			96.7	85-115			04/11/2026	DMW	
Cadmium			96.4	85-115			04/11/2026	DMW	
Lead			98.1	85-115			04/11/2026	DMW	
Duplicate (B261027-DUP1) Source ID: AC00464-01									
Arsenic					2.56	20	04/11/2026	DMW	
Cadmium					5.71	20	04/11/2026	DMW	
Lead					1.97	20	04/11/2026	DMW	
Matrix Spike (B261027-MS1) Source ID: AC00464-01									
Arsenic			97.8	70-130			04/11/2026	DMW	
Cadmium			97.8	70-130			04/11/2026	DMW	
Lead			96.5	70-130			04/11/2026	DMW	
Matrix Spike Dup (B261027-MSD1) Source ID: AC00464-01									
Arsenic			98.1	70-130	0.241	20	04/11/2026	DMW	
Cadmium			97.7	70-130	0.184	20	04/11/2026	DMW	
Lead			97.3	70-130	0.501	20	04/11/2026	DMW	
Batch: B261034									
Blank (B261034-BLK1)									
Calcium	<0.05	mg/L					04/07/2026	AMO	U
Magnesium	<40	ug/L					04/07/2026	AMO	U
Phosphorus as P	<0.011	mg/L					04/07/2026	AMO	U
LCS (B261034-BS1)									
Calcium			97.2	85-115			04/07/2026	AMO	
Magnesium			96.8	85-115			04/07/2026	AMO	
Phosphorus as P			104	85-115			04/07/2026	AMO	
Duplicate (B261034-DUP1) Source ID: AC00464-03									
Calcium					0.605	20	04/07/2026	AMO	
Magnesium					1.53	20	04/07/2026	AMO	
Phosphorus as P					3.22	20	04/07/2026	AMO	
Matrix Spike (B261034-MS1) Source ID: AC00464-03									
Calcium			99.5	70-130			04/07/2026	AMO	
Magnesium			97.7	70-130			04/07/2026	AMO	
Phosphorus as P			106	70-130			04/07/2026	AMO	
Matrix Spike Dup (B261034-MSD1) Source ID: AC00464-03									
Calcium			101	70-130	0.332	20	04/07/2026	AMO	
Magnesium			97.2	70-130	0.381	20	04/07/2026	AMO	
Phosphorus as P			104	70-130	0.738	20	04/07/2026	AMO	

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document
No duplication of this report is allowed, except in its entirety

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Report Date: 05/12/2026 10:34

Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals (Continued)									
Batch: B261071									
Blank (B261071-BLK1)									
Mercury	<0.006	ug/L					04/08/2026	SAS	U
LCS (B261071-BS1)									
Mercury			100	85-115			04/08/2026	SAS	
Duplicate (B261071-DUP1) Source ID: AC00464-01									
Mercury					10.3	20	04/08/2026	SAS	J
Duplicate (B261071-DUP2) Source ID: WB04316-06									
Mercury					31.8	20	04/08/2026	SAS	Cust-01, J
Matrix Spike (B261071-MS1) Source ID: AC00464-01									
Mercury			96.8	70-130			04/08/2026	SAS	
Matrix Spike (B261071-MS2) Source ID: WB04316-06									
Mercury			161	70-130			04/08/2026	SAS	Cust-01
Matrix Spike Dup (B261071-MSD1) Source ID: AC00464-01									
Mercury			99.3	70-130	2.16	20	04/08/2026	SAS	
Matrix Spike Dup (B261071-MSD2) Source ID: WB04316-06									
Mercury			94.2	70-130	43.6	20	04/08/2026	SAS	Cust-01
Dissolved Metals									
Batch: B261026									
Blank (B261026-BLK1)									
Cadmium	<0.010	ug/L					04/24/2026	DMW	U
Copper	<0.14	ug/L					04/24/2026	DMW	U
Lead	<0.0050	ug/L					04/24/2026	DMW	U
Zinc	<0.50	ug/L					04/24/2026	DMW	U
LCS (B261026-BS1)									
Cadmium			98.9	85-115			04/24/2026	DMW	
Copper			103	85-115			04/24/2026	DMW	
Lead			105	85-115			04/24/2026	DMW	
Zinc			102	85-115			04/24/2026	DMW	
Duplicate (B261026-DUP1) Source ID: AC00468-02									
Cadmium					NR	10	04/24/2026	DMW	U
Copper					0.243	10	04/24/2026	DMW	
Lead					1.54	10	04/24/2026	DMW	
Zinc					0.199	10	04/24/2026	DMW	
Matrix Spike (B261026-MS1) Source ID: AC00468-02									
Cadmium			96.7	70-130			04/24/2026	DMW	
Copper			95.8	70-130			04/24/2026	DMW	
Lead			99.1	70-130			04/24/2026	DMW	
Zinc			95.3	70-130			04/24/2026	DMW	
Matrix Spike Dup (B261026-MSD1) Source ID: AC00468-02									
Cadmium			95.8	70-130	0.998	10	04/24/2026	DMW	
Copper			96.3	70-130	0.325	10	04/24/2026	DMW	
Lead			99.1	70-130	0.0384	10	04/24/2026	DMW	
Zinc			96.4	70-130	0.693	10	04/24/2026	DMW	

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Notes and Definitions

Item	Definition
Cust-01	QC failures attributed to sample non-homogeneity observed in triplicate digestions. Other batch QC acceptable. Reanalysis not possible due to holding time exceedance. Data qualified for reduced precision/bias.
D	Data reported from a dilution
J	Estimated value
M-09	At least one Matrix Spike recovers within the acceptance criteria for the analyte. Matrix interference for the analyte is not suspected in reported result.
Seed-01	The seed depletion is greater than that recommended by the method. The LCS is acceptable showing the seed supports the method.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Cavan Gerrish
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714-6418
Tel. (208) 407-4284
Purchase Order: 63073050
Project: Stormwater PI
Sampler(s): Steven Turner
Cadon Lewis
Kristen Jolliffe Sammi Eckersell

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg - EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
AC00465-01	3/31/26	4/1/26	2237	0215	260331-206-WC	ST	X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	1

Relinquished by (sign) | **Date &Time Transferred** | **Received by (sign)** | **Comments/ Special Instructions**

4/1/26 521 0655 4-1-26

AA JL
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C_WQL-PI

251006 ST

AT 0014

NPDES Phase I Storm Event Report
April 22, 2026

Prepared by
Ada County Highway District
June 8, 2026

Section 1: Introduction

The Environmental Protection Agency Region 10 issued a Municipal Separate Storm Sewer System Phase I National Pollutant Discharge Elimination System Permit (NPDES Permit), effective October 1, 2021, to Ada County Highway District (ACHD), Boise City, Ada County Drainage District No. 3, Idaho Transportation Department District 3, Boise State University, and Garden City. Under the NPDES Permit, Permittees are required to continue to conduct wet weather stormwater outfall monitoring and subwatershed monitoring. Four outfall monitoring sites (Lucky, Whitewater, Main, and Americana) and one subwatershed monitoring site (AS_6) have been established. The AS_6 site represents a subwatershed located within the Americana watershed. At each site, a minimum of three composite and three grab samples will be collected during Water Year (WY) 2026 (October 1, 2025, through September 30, 2026). The following storm event report summarizes stormwater sampling results from the April 22, 2026, storm event.

Section 2: Project Status

Table 2-1 is a summary of the sample types collected to date for WY 2026 Phase I Stormwater Outfall Monitoring. When samples are qualified, additional samples will be attempted from subsequent storms to collect unqualified samples.

Table 2-1. WY 2026 Samples Collected

Date	Lucky	Whitewater	Main	Americana	AS_6
October 25, 2025	--, C	--, C[1]	--, C	--, C	--, C
December 4, 2025	G[2], C	G[2], C	G[2], C	G[2,3], --	--, --
February 16, 2026	G[2], C	G[2], C	G[2], C[1]	G[2], C	G[2], C
March 31, 2026	G, --	G, C[1]	G, C	G, C	G, C
April 22, 2026	G, --	G, C	G, --	G, --	G, --
Unqualified Samples:	2G, 3C	2G, 3C	2G, 3C	2G, 3C	2G, 3C
Samples Remaining:	1G, 0C	1G, 0C	1G, 0C	1G, 0C	1G, 0C

Notes:

-- = no samples taken.

C = composite sample.

G = grab sample.

[1] Composite sample qualified due to lack of representativeness (50%–75%).

[2] E. coli sample qualified due to exceeded hold time (>8 and <16 hours).

[3] E. coli and field parameter samples rejected due to insufficient rainfall at the time of sample collection.

Section 3: Storm Event Summary

The April 22, 2026, storm event and the subsequent preparation and sampling efforts are detailed in the following sections.

3.1 Storm Detail

A summary of the forecast on which monitoring decisions were based is detailed below. The sampling event communication form that describes the forecast and summarizes the decision-making process from April 22, 2026, is included in Attachment A for reference.

Tuesday, April 21, 2026 (Sampling Event Communication and Set Up)

- On the morning of April 21, 2026, the National Weather Service issued a forecast for precipitation beginning on April 22 at 0000 until 0000 on April 23. The chance of precipitation was 100% with a 90% chance of rain totals exceeding 0.10" over a 12-hour period. The forecasted precipitation for this event was between 0.75 and 1.10 inches of rain.
- Monitoring station setup was accomplished throughout the day of April 21. An expected precipitation depth of 0.25 inches was used to set trigger volumes at monitoring stations. A runoff calculations worksheet showing how the trigger volumes were calculated is included in Attachment A.

Wednesday, April 22, 2026 (Sampling Event)

- The runoff started on April 22 at approximately 0257 and ended at approximately 1801.
- Precipitation totals ranged between 0.74 and 0.94 inches at local rain gauges.

Flow measurements and precipitation data are listed in Table 1 along with a sampling summary. Hydrographs for the Whitewater, Main, Americana, and AS_6 sites showing flow, rain, and sample collection data are included in Attachment B. A hyetograph for Lucky presenting rain and sample collection data is also included in Attachment B.

3.2 Sampling Summary

The Whitewater monitoring station was set up on April 21, 2026, to collect flow-proportional composite samples during the storm, and the AS_6 monitoring station was set up with a composite blank sample for the duration of the storm event. A sampler enable condition was programmed into the Whitewater flowmeter. Setup and sampling information are included in Table 1. The field forms completed during setup/shutdown and sampling are included in Attachment C.

Grab Samples

Two, two-member teams mobilized to collect stormwater grab samples and verify operation of the automatic sampling equipment on April 22 at approximately 0337. Grab samples were collected at the Lucky, Whitewater, Main, Americana, and AS_6 monitoring stations and submitted to the Boise City Public Works Water Quality Laboratory (WQL) on April 22 at 0521. Results for grab samples, including field parameter and analytical data, are included in Table 2. Laboratory analytical reports are included in Attachment D.

Composite Samples

A composite sample was collected at the Whitewater monitoring station and submitted to the WQL at 1319 on April 22. Analytical results are shown in Table 2, and pollutant loading estimates for the event are detailed in Table 3. Laboratory analytical reports are included in Attachment D.

Section 4: Quality Assurance/Quality Control

A summary of quality control samples collected during the April 22, 2026, storm event is presented below in Table 4-1. A field blank and a field duplicate grab sample for *E.coli* analyses were collected from the Main monitoring station. A laboratory duplicate/ composite split was collected at the Whitewater monitoring station, and a field blank composite was collected at the AS_6 monitoring station. The analytical results for these samples are included in Table 4.

Table 4-1. Quality Control Samples

Sample ID	Sample Type	Parent Sample	Conclusions
260422-12-001	Field blank grab	260422-12-WG	No *E. coli* detected in the field blank.
260422-12-101	Field duplicate grab	260422-12-WG	Relative percent difference was within the acceptable range.
260422-11-103	Lab duplicate/composite split	260422-11-WC	Relative percent difference was not within the acceptable range for TKN. The analytical value for TKN is considered an estimate.
260422-206-102	Field blank composite	--	Dissolved copper and dissolved zinc were detected in the field blank composite within acceptable levels. All associated data is accepted.

Data quality objectives for this storm were evaluated and tracked using the data validation review checklist included in Attachment A.

An acceptable relative percent difference (RPD) between the parent and duplicate sample is 20 percent for sample concentrations greater than five times the method detection limit. The Whitewater lab duplicate/ composite split sample resulted in RPD values within the acceptable range for all results, with the exception of TKN. The TKN result is therefore considered an estimate.

Section 5: Notes and Recommendations

Lucky

An area velocity sensor failure at the Lucky monitoring station resulted in the loss of accurate data throughout the duration of the storm event. As a result, grab samples collected at Lucky were accepted based on rainfall at the time of sample collection. A spare area velocity sensor was installed and confirmed to be recording data appropriately on May 20, 2026.

Data Tables

Table 1. Sampling and Flow Summary					
	Lucky	Whitewater	Main Alt	Americana	AS_6
Grab samples collected and submitted?	YES	YES	YES	YES	YES
Composite samples collected and submitted?	NO	YES	NO	NO	NO
Trigger volume	--	1821 cf	--	--	--
Sampler enable condition (in) or Velocity cutoff (fps)	--	Level > 6.35"	--	--	--
Deadband/ Hysteresis (in)	--	1.0"	--	--	--
Runoff start time	--	0327	0307	0257	0257
Grab sample collection time	0346	0425	0345	0407	0428
Composite sample stop time	--	1202	--	--	--
Runoff stop time	--	1801	1733	1612	1533
Volume of discharge sampled (ft^3)	--	214,409	--	--	--
Total runoff volume (ft^3)	--	300,430	44,338	454,078	33,212
Percent of storm flow sampled (%)	--	71%	--	--	--
Composite sample duration (hrs)	--	7.0	--	--	--
Storm Precipitation (in)	0.74	0.79	0.84	0.84/0.94	0.84/0.94
Referenced Rain Gauge	Cynthia Mann	Whitewater	Front	Front/East	Front/East
Sampler messages (counts): Success	--	119	--	--	--
: No more liquid	--	1	--	--	--
Number of composite bottles filled	--	5	--	--	--
Composite sample volume (Approx.; mL)	--	64,750 mL	--	--	--

Notes:

-- = No data.

Table 2. Field and Analytical Data Summary

Monitoring Station	Sample Date	Sample ID Grab	Field Parameters				Analytical Parameters																						
			Dissolved Oxygen	pH	Conductivity	Temperature	E. coli	Sample ID Composite	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
			mg/L	S.U.	uS/cm	C	MPN/100 mL		mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Lucky	4/22/2026	260422-03-WG	5.468	7.059	258.3	12.70	82.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whitewater	4/22/2026	260422-11-WG	8.958	7.138	161.4	12.08	378.4	260422-11-WC	20.5	78.0	3.98	21.6	28.2	51.6	56.3	0.446	0.297	0.334	0.190	1.72[3]	1.6	<0.010	0.048	4.4	0.16	4.0	0.0161	18.0
Main Alt	4/22/2026	260422-12-WG	8.447	7.656	119.6	14.78	387.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Americana	4/22/2026	260422-14-WG	9.404	7.362	146.5	12.78	272.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AS_6	4/22/2026	260422-206-WG	9.292	7.089	105.4	12.16	727.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

-- = No data.

[3] Relative percent difference was greater than 20% and both parent and QC samples were greater than five times the method detection limit. Values are considered estimates.

Table 3. Event Pollutant Loading Estimates in Pounds						
Monitoring Station	Event Date	TSS	Total Phosphorus	Ammonia as N	Nitrate + Nitrite as N	TKN
Lucky	--	--	--	--	--	--
Whitewater	4/22/2026	967.5	8.362	6.262	3.562	32.25[3]
Main Alt	--	--	--	--	--	--
Americana	--	--	--	--	--	--
AS_6	--	--	--	--	--	--

Notes:

-- = No data.

[3] *Relative percent difference was greater than 20% and both parent and QC samples were greater than five times the method detection limit. Values are considered estimates.*

Table 4. QC Sample Summary

Date	Parent Sample	Sample ID	Type	E. coli	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
				mpn/100 mL	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
4/22/2026	260422-12-WG	260422-12-001	Field Blank Grab	<1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/22/2026	260422-12-WG	260422-12-101	Field Duplicate Grab	307.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Calculated parent/duplicate RPD				4%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4/22/2026	260422-11-WC	260422-11-103	Lab Duplicate/ Composite Split	--	21.5	76.0	3.9	21.2	24.6	50.7	55.7	0.435	0.296	0.326	0.190	1.40	1.6	<0.010	0.051	4.1	0.19	3.9	0.0163	18.1
Calculated parent/duplicate RPD				--	**5%**	**3%**	**2%**	**2%**	**14%**	**2%**	**1%**	**2%**	**0%**	**2%**	**0%**	**21%**	**0%**	**0%**	**6%**	**7%**	**17%**	**3%**	**1%**	**1%**
4/22/2026	--	260422-206-002	Field Blank Composite	--	<2.00	<7.00	<0.500	<0.125	<0.3	<0.900	<25.0	<0.0110	<0.00250	<0.0600	<0.0250	<0.100	<0.050	<0.010	<0.010	0.58	<0.010	<0.010	<0.006	1.5
Acceptable RPD				**40%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**	**20%**

Notes:

-- = No data.

Attachment A: Supplemental Documents

Sampling Event Communication Form

Data Validation Checklist

Runoff Calculation Worksheet

SAMPLING EVENT COMMUNICATION FORM

Date: 4/21/2026	Time: 8:03 AM	Initials: ST
Is there a targeted sampling event during the next 36 hours? (Or, if it is Friday, is a targeted event expected before 5:00 PM Monday?)		Yes

Past 72 hr Precip	
Date and time of expected event	4/22 @12:01am – 11:59pm
Expected amount of precipitation	0.75 – 1.1”
Percent chance of precipitation	100%
Percent chance of >0.10” over 12 hours	90%

NWS Update

Spoke with Cory from NWS. A steady rain event from the southwest will move into the area just before midnight on 4/21-4/22. Due to the strength of the front, little rain shadowing will occur. We can expect around half an inch of rain during the first 12 hours of this storm, and then spotty showers will persist from 12:00pm – 12:00am. The next 12 hours will deposit 0.25”-0.5” of rain.

Targeted Station & Samples

Lucky	Whitewater	Main Alternate	Americana	AS_6	State (Phase II)
☒ Grab	☒ Grab	☒ Grab	☒ Grab	☒ Grab	☐ Grab
☐ Composite	☒ Composite	☐ Composite	☐ Composite	☐ Composite	☐ Composite

Type of Forecasted Precipitation

☐ Light Rain	☒ Rain	☐ Rain on Snow
☒ Scattered Showers	☒ Thunder Showers	☐ Snowmelt
☐ Other:		

Reasons for Not Targeting a Forecasted Storm and/or Stations

☐ Holiday:
☐ Waiting on Antecedent Dry Period:
☐ Equipment Concerns:
☐ Other:

Text Forecast

NWS Forecast for: 2 Miles NNW Garden City ID
Issued by: National Weather Service Boise, ID
Last Update: 12:29 am MDT Apr 21, 2026

Today: Sunny, with a high near 82. East wind 5 to 13 mph becoming south in the afternoon. Winds could gust as high as 23 mph.
Tonight: A chance of showers and thunderstorms before 2am, then showers likely and possibly a thunderstorm between 2am and 3am, then showers after 3am. Low around 43. Light and variable wind becoming west 13 to 18 mph. Winds could gust as high as 34 mph. Chance of precipitation is 90%. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.
Wednesday: Showers. High near 53. South wind 8 to 14 mph becoming west in the afternoon. Winds could gust as high as 24 mph. Chance of precipitation is 100%. New precipitation amounts between a quarter and half of an inch possible.
Wednesday Night: Showers, mainly before midnight. Low around 40. West northwest wind 7 to 11 mph, with gusts as high as 23 mph. Chance of precipitation is 80%.

Thursday: A 20 percent chance of showers after noon. Partly sunny, with a high near 56. West northwest wind 6 to 13 mph, with gusts as high as 23 mph.
Thursday Night: Mostly clear, with a low around 35.
Friday: Sunny, with a high near 59.
Friday Night: Mostly clear, with a low around 35.
Saturday: Sunny, with a high near 60.
Saturday Night: Mostly clear, with a low around 37.
Sunday: Mostly sunny, with a high near 62.
Sunday Night: Partly cloudy, with a low around 38.
Monday: Sunny, with a high near 64.

Forecast Discussion

Area Forecast Discussion
National Weather Service Boise ID
547 AM MDT Tue Apr 21 2026

.KEY MESSAGES...
- After a dry and warm afternoon today, a strong cold front arrives this evening with gusts to 45 mph, increasing showers, and isolated thunderstorms.

- **Much cooler on Wednesday with widespread precipitation, isolated thunderstorms, gusty winds, and snow levels lowering to 4500 to 5500 feet.**

- **Precipitation totals of 0.5 to 1.5 inch in the mountains, 0.25 to 1.0 inch in the valleys.** Snow amounts of 6 to 12 inches above 6000 feet.

- Cool, but gradually warming, Thursday through early next week with precipitation chances persisting mainly over the higher terrain.

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.SHORT TERM /Through Thursday Night/...
Issued 259 AM MDT TUE APR 21 2026
Today will be the last warm and mostly dry day before the return of much cooler and wetter conditions. Southerly flow ahead of a deep upper low off the northern California coast will once again bring temperatures 15-20 degrees above normal on the Idaho side. This will push highs into the upper 70s to lower 80s at lower elevations. However, an advancing strong cold front associated with the low will bring cooler temperatures and increasing showers to southeast Oregon this afternoon. Southerly winds this afternoon ahead of the front will gust to 25-40 mph. **The front will sweep through the Treasure Valley early to mid evening and through the Magic Valley late evening.** Gusts to around 45 mph are expected along the front along with scattered showers and isolated thunderstorms.

The main upper low will rapidly move inland tonight into Wednesday, with the low center moving directly over the area overnight into Wednesday morning. **Convergence and deformation near the low center will promote widespread precipitation behind the front, initially moving into southeast Oregon this evening**

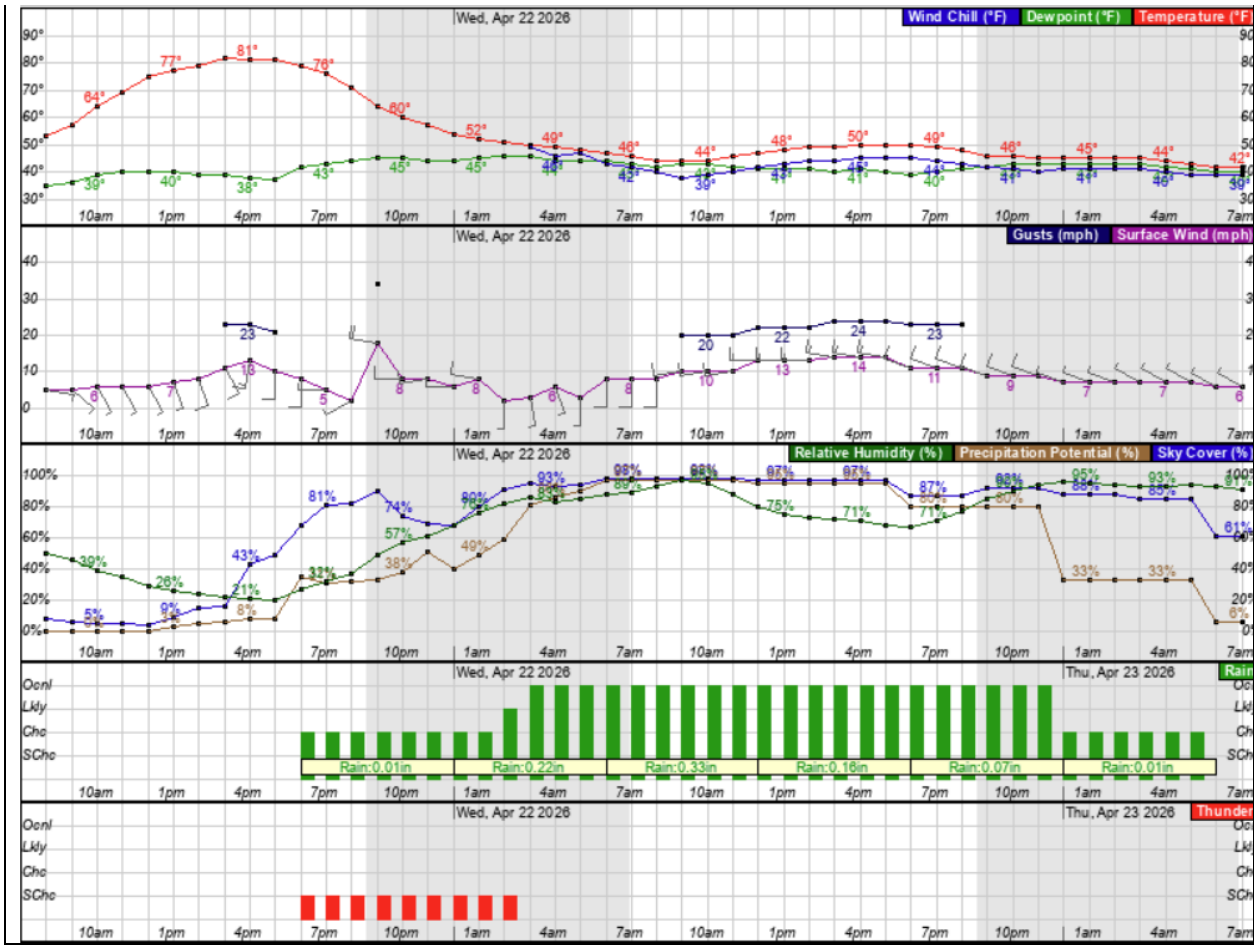
and spreading into southwest Idaho overnight into Wednesday morning. There will be enough instability for thunderstorms to continue overnight across east-central Oregon and west-central Idaho. As the low tracks northeast Wednesday afternoon and evening, moist west to northwest flow will continue to bring showers to the area. A low threat for thunderstorms will also linger across the mountains. Precipitation across the central Idaho mountains and adjacent windward valleys (including the Treasure Valley, especially near the foothills) will be aided by upslope flow. **Precipitation totals through the event will be significant, with most lower elevations picking up 0.25-1.0 inch of rain. In the Treasure Valley, there is a 10-30% chance of an inch of rain or more,** with a 40% chance near the foothills. In the mountains, 0.50-1.50 inch of precipitation is expected, with closer to 2 inches possible in locations favored by northwest flow, such as Bogus Basin.

High temperatures will be 20-30 degrees cooler Wednesday than today as the low moves in. Snow levels will fall to 4500-5500 feet by Wednesday morning, lowest across southeast Oregon. Heavy mountain snow accumulations of 6-12 inches are expected above 6000 feet, with locally higher amounts. Mountain valleys above 4500 feet will mix with or change to snow, but any accumulations should be less than an inch. Wind gusts on Wednesday of 25-40 mph will be common, locally up to 45 mph. Another low will drop into the area from the north on Thursday, but will not be nearly as strong as the first low. The track will favor continued light mountain precipitation with a 20% chance or less of precipitation south of the Snake Basin. The low will keep cool temperatures and gusty winds in place on Thursday.

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.LONG TERM /Friday through Tuesday/...
Issued 259 AM MDT TUE APR 21 2026
A broad upper-level trough over southern Canada and the northern U.S. will maintain a cool northwest to west flow across the region Friday through Monday. This pattern will keep high temperatures a few degrees below seasonal norms, with daily shower chances (10-30%) persisting over the higher terrain. Snow levels will generally range from 4500-6500 ft MSL. Brief drying conditions alongside a slight warming trend are expected by Tuesday as the upper low gradually departs toward the east.

Hourly Forecast


Wed, Apr 22 2026
Wind Chill (°F)
Dewpoint (°F)
Temperature (°F)
Gusts (mph)
Surface Wind (mph)
Relative Humidity (%)
Precipitation Potential (%)
Sky Cover (%)
Thu, Apr 23 2026
Rain
Thunder
Ocnl
Lkly
Chc
SChc
Rain:0.01in
Rain:0.22in
Rain:0.33in
Rain:0.18in
Rain:0.07in
Rain:0.01in
10am
1pm
4pm
7pm
10pm
1am
4am
7am

Storm Event QA/QC Checklist – Phase I

STORM DATE: 4/22/2026

A. Event and Data Completeness	Yes	No	N/A	Notes
1. Field data sheets filled out completely and clearly	X			
2. Field parameters reviewed, and any problems/issues addressed	X			
3. All samples collected as specified	X			
4. All samples delivered to lab promptly (review chain of custody rpts)	X			
5. Inconsistencies/clarifications discussed with sampling team member			X	
6. All analytical reports from lab received	X			

B. Validation and Verification Methods	Yes	No	N/A	Notes
1. Outliers and unexpected values discussed with lab			X	
2. Appropriate analytical methods used	X			
3. All lab QA samples were within method acceptance criteria	X			
4. All samples reviewed and data qualifiers assigned if needed	KJ			
5. Data quality objective achieved	X			

C. Specific Storm and Sample QA/QC Criteria	Lucky	Whitewater	Main Alt	Americana	AS_6	Program Criteria	Met	Qualify	Reject
1. Antecedent dry period (inches in previous 72-hours)	0.01	0.01	0.01	0.01/ 0.02	0.01/ 0.02	< 0.11" in 72 hrs	X		
2. Precipitation (inches)	0.74	0.79	0.84	0.84/ 0.94	0.84/ 0.94	> 0.10"	X		
3. Sampled amount (% of total run-off)	-	71	-	-	-	>= 75% or >= 6 hrs: no qualifier >= 50% and <75%: qualify < 50%: reject	X		
4. Composite sample duration (hours)	-	7	-	-	-				
4. Ecoli sample holding time (hours)	3.5	3	3.5	3.5	3	<=8 hrs: no qualifier >8 and <=16 hrs.: qualify >16 hrs.: reject	X		
5. Filtering of samples for dissolved parameter analysis (hours)	-	2	-	-	-	<= 24 hrs: no qualifier > 24 hrs.: reject	X		

D. Notes

- Area velocity sensor failure at Lucky resulted in loss of accurate data.
- A lab duplicate/composite split was performed by WQL staff from the Whitewater monitoring station and subsequent sample analyzed.
- AS_6 Monitoring station was setup with a composite field blank sample for the duration of the storm event and submitted for analyses.

Reviewed by: Steven Turner Digitally signed by Steven Turner Date: 2026.05.29 09:10:13 -06'00'

Approved by: Monica I. Lowe Digitally signed by Monica I. Lowe Date: 2026.05.29 14:02:59 -06'00'

Storm Runoff Estimates and Trigger Volumes

Step 1. Enter runoff coefficients in yellow cells.
Step 2. Enter expected precipitation depth (in) in blue cell.
Step 3. Read trigger volumes (**bold**) in green cells.

Expected Precipitation Depth = 0.25
Aliquots per Sample = 17

Site	Area (ac)	Using RC calculated from flow data		
		RC	Expected Vol (ft^3)	Trigger Vol (ft^3)
Lucky	105	0.157	14960.1	**880**
Whitewater	498	0.069	30957.5	**1821**
Main	79	0.246	17636.4	**1037**
Main Alt	60	0.200	10890.0	**641**
Americana	875	0.144	114345.0	**6726**
Americana Alt	869	0.144	113560.9	**6680**
AS_6	204	0.046	8516.0	**501**

Notes:

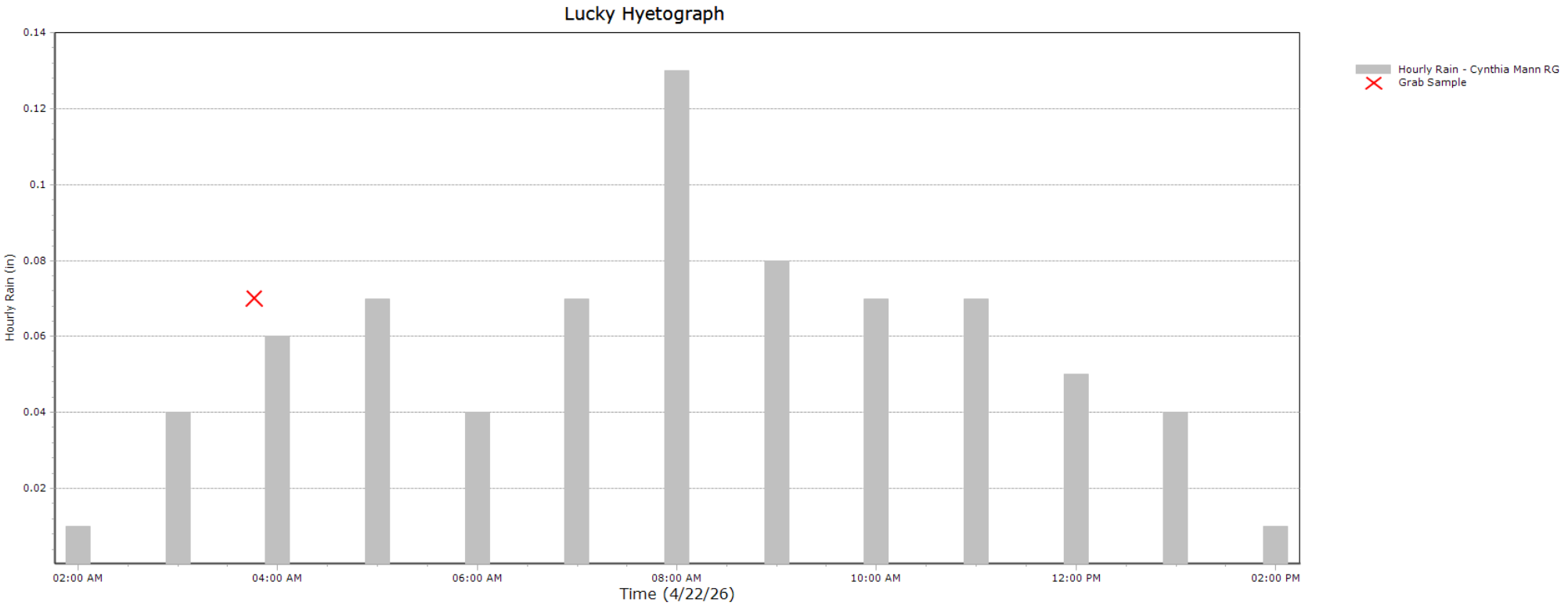
Calculated RC = runoff volume (ft^3) / [precip (ft) x area (ft^2)]

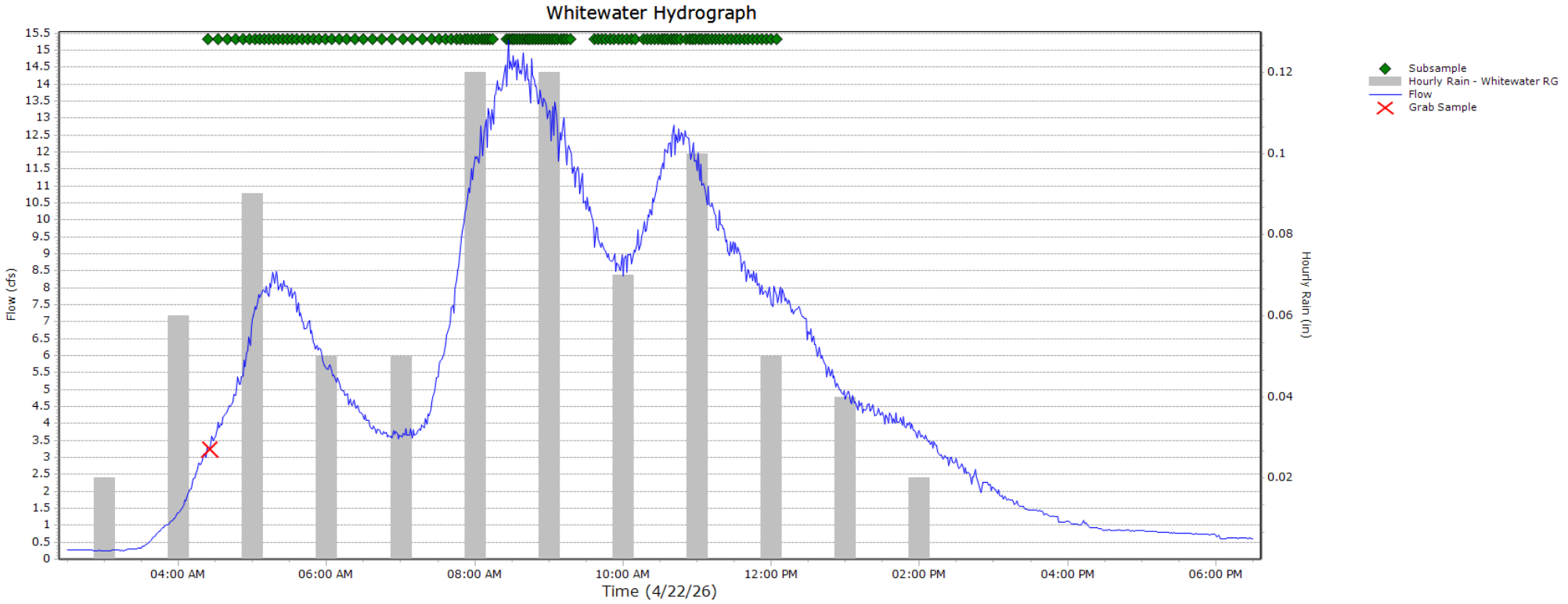
Where volume (ft^3) is the measured discharge, precip (ft) is the measured amount from local rain guage, and area (ft^2) is the watershed area.

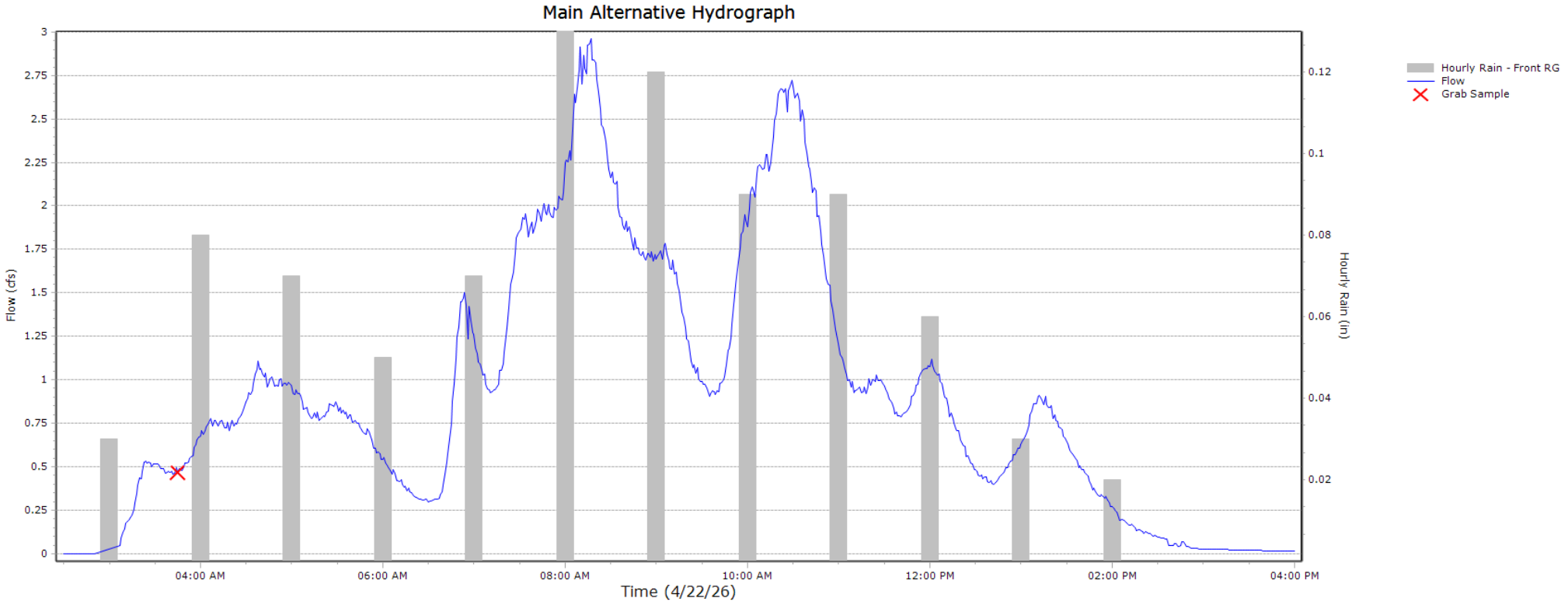
Expected volume (ft^3) = RC x expected precip (ft) x area (ft^2)

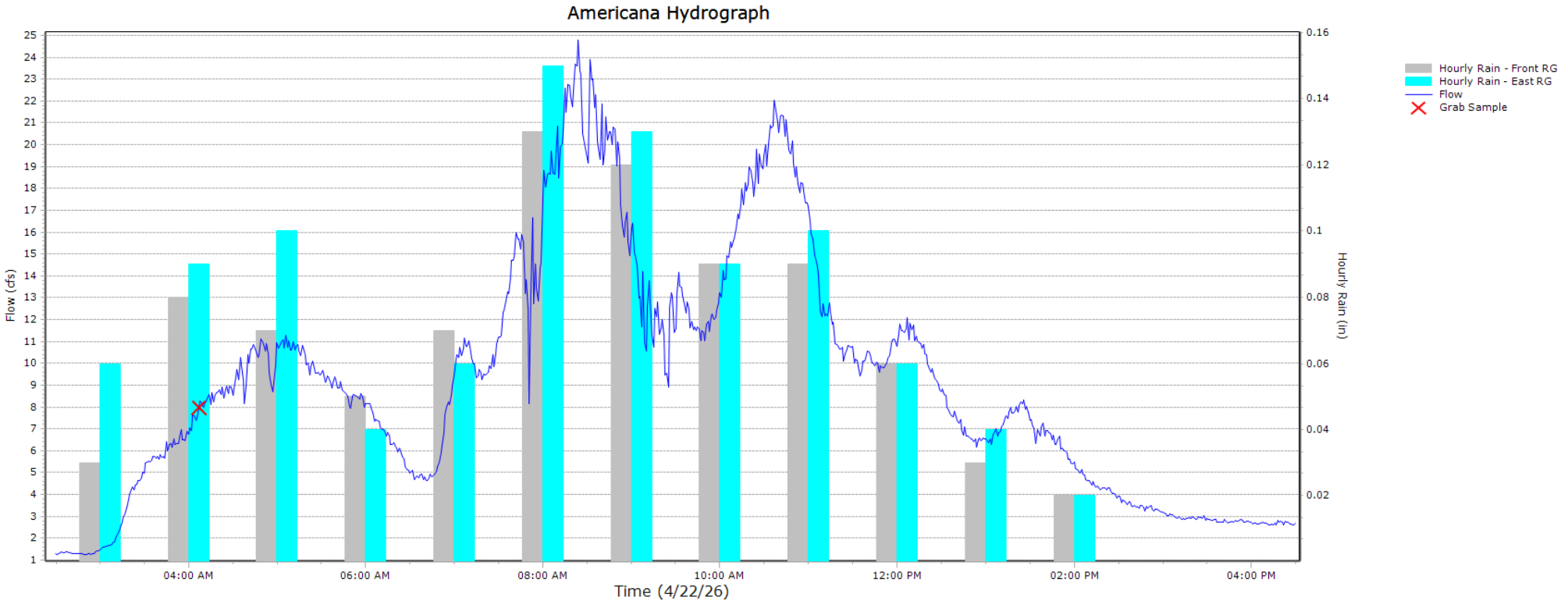
Updated 250213 KJ

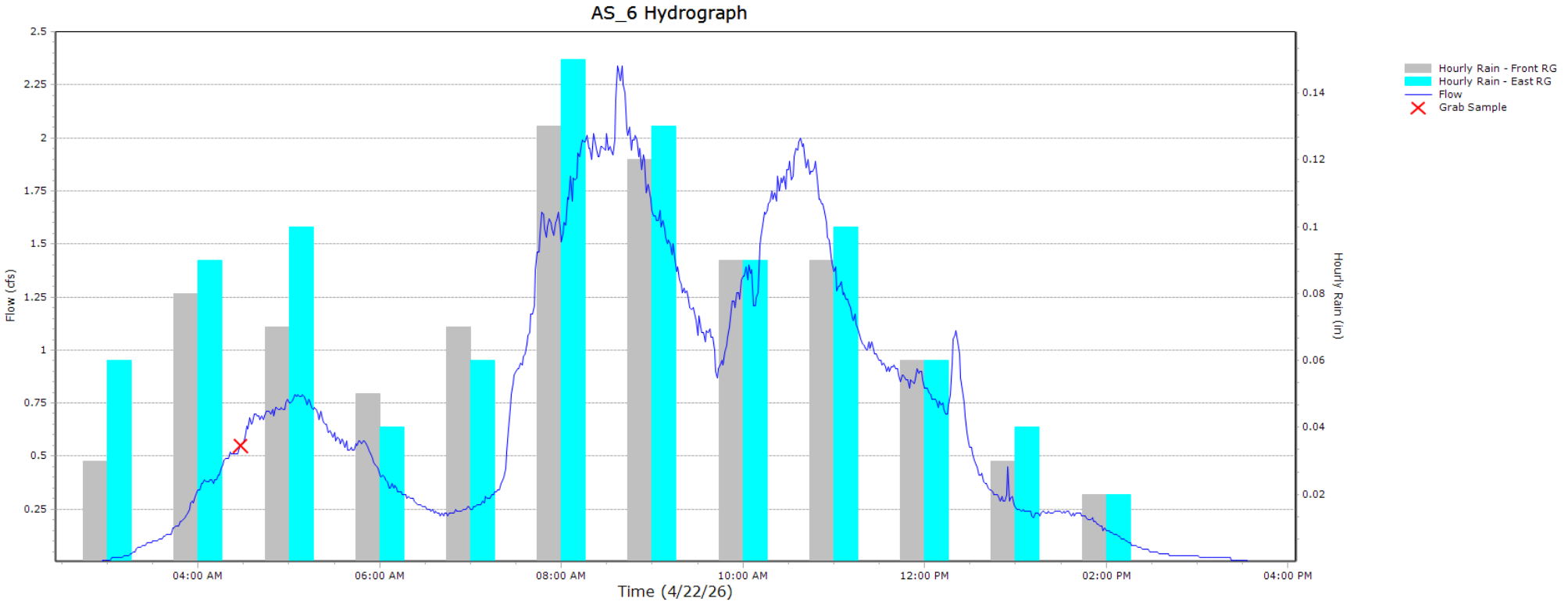
Attachment B: Storm Event Hydrographs


Lucky Hyetograph
Hourly Rain (in)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
02:00 AM
04:00 AM
06:00 AM
08:00 AM
10:00 AM
12:00 PM
02:00 PM
Time (4/22/26)
Hourly Rain - Cynthia Mann RG
Grab Sample


Whitewater Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (4/22/26)
04:00 AM
06:00 AM
08:00 AM
10:00 AM
12:00 PM
02:00 PM
04:00 PM
06:00 PM
Subsample
Hourly Rain - Whitewater RG
Flow
Grab Sample


Main Alternative Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (4/22/26)
04:00 AM
06:00 AM
08:00 AM
10:00 AM
12:00 PM
02:00 PM
04:00 PM
Hourly Rain - Front RG
Flow
Grab Sample


Americana Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (4/22/26)
04:00 AM
06:00 AM
08:00 AM
10:00 AM
12:00 PM
02:00 PM
04:00 PM
Hourly Rain - Front RG
Hourly Rain - East RG
Flow
Grab Sample


AS_6 Hydrograph
Flow (cfs)
Hourly Rain (in)
Time (4/22/26)
04:00 AM
06:00 AM
08:00 AM
10:00 AM
12:00 PM
02:00 PM
04:00 PM
Hourly Rain - Front RG
Hourly Rain - East RG
Flow
Grab Sample

Attachment C: Field Forms

Grab Sample Data Form

STATION: Lucky

Personnel: ST, SK **Date/Time On-Site:** 4/22/26 0337

Flow Meter Current Status				
Time	Level (in)	Flow ~~(cfs)~~ GPM	Velocity (fps)	Battery (V)
0341	4.20	158.12	0.84	12.9

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260422-03-WG	4/22/26	0346	☒
Field Duplicate *E.Coli**	260422-03101	4/22/26	0347 ST	☒
Field Blank *E.Coli**	260422-03001	4/22/26	0355	☒

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP14	0353	12.70	5.468	7.059	258.3

Sampler Current Status	
First Subsample Date/Time	—
Last Subsample Date/Time	—
# of Subsamples taken	—

Comments: Alternate QC site. Samples discarded due to successful collection at primary QC site (main).

Date/Time Off-Site: 4/22/26 0405

Grab Sample Data Form

STATION: Whitewater

Personnel: ST, SK **Date/Time On-Site:** 4/22/26 0418

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0423	7.34	3.17	1.96	–

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260422-11--WG	4/22/26	0425	☑
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP14	0427	12.08	8.958	7.138	161.4

Sampler Current Status	
First Subsample Date/Time	—
Last Subsample Date/Time	—
# of Subsamples taken	1

Comments:

Date/Time Off-Site: 4/22/26 0431

Grab Sample Data Form

STATION: Main Alt

Personnel: CL, KJ **Date/Time On-Site:** 4/22/26 0340

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0340	4.437	0.46	1.15	11.85

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260422-12 -WG	3:45 4/22/26	03:45	☒
Field Duplicate *E.Coli**	260422-12 -101	4/22/26	03:46	☒
Field Blank *E.Coli**	260422-12 -001	4/22/26	0353	☒

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP16	3:51	14.78	8.447	7.656	119.6

Sampler Current Status	
First Subsample Date/Time	—
Last Subsample Date/Time	—
# of Subsamples taken	—

Comments:

Date/Time Off-Site: 4/22/26 0357

Grab Sample Data Form

STATION: Americana

Personnel: KJ, CL **Date/Time On-Site:** 4/22/26 0403

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0403	10.715	~~7.665~~ ~~7.5~~ KJ	3.663	13.3

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	260422-14 -WG	4/22/26	0407	☒
Field Duplicate *E.Coli**	-101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP16	0411	12.78	9.404	KJ ~~7.5~~ 7.362	146.5

Sampler Current Status	
First Subsample Date/Time	—
Last Subsample Date/Time	—
# of Subsamples taken	—

Comments:

Date/Time Off-Site: 4/22/26 0413

Grab Sample Data Form

STATION: AS-6

Personnel: KJ, CL **Date/Time On-Site:** 4/22/26 0425

Flow Meter Current Status				
Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0427	4.29	228.01	1.57	12.8

Grab Information				
	Sample ID	Date	Time	Labeled?
Site *E.Coli*	~~260422~~-206-WG	~~4/22~~ 4/22/26	0428	☒
Field Duplicate *E.Coli**	KJ -101			☐
Field Blank *E.Coli**	-001			☐

*Note: time on bottle for QC samples is 1200

Field Parameters					
Meter number	Time	Temp (C)	D.O. (mg/L)	pH (S.U.)	SpCond (uS/cm)
MP16	0433	12.16	9.292	7.089	105.4

Sampler Current Status	
First Subsample Date/Time	—
Last Subsample Date/Time	—
# of Subsamples taken	—

Comments:

Date/Time Off-Site: 4/22/26 0435

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: Lucky

SET UP

Personnel: KJ, ST

Date/Time On-Site: 4/21/26 1438

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
	~~2.17~~	~~0.00 1.4~~	~~0.00 2.00~~	~~13.5~~
		~~142.65~~		
1451	2.03	0.00	0.00	13.0
Enable Condition or Velocity Cutoff:			—	
Deadband:			—	
Trigger Volume:			—	

- [x] Check desiccant on flowmeter and sampler
- [x] Install batteries on flowmeter and sampler
- [ ] Perform decon. cycle
- [ ] Install 15L sample bottle, with ice
- [ ] Leave bottle lid at site, in a clean re-sealable plastic bag
- [ ] Verify all cable and tubing connections
- [x] Check date and time on flowmeter and sampler
- [ ] Set flowmeter program and sampler program parameters
- [x] Set logging interval to 1 minute
- [ ] Start flowmeter program and sampler program
- [ ] Verify running

Comments:
No composite targeted for this storm event. Composites completed for the water year.

Date/Time Off-Site: 4/21/26 1453

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/23/26 1239

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1252	0.03	0.00	0.00	12.7
Downloaded to:		ST USB		

If flow monitoring is complete:	If continuing to monitor flow:
[x] Halt program on flowmeter	[ ] Replace flowmeter battery
[x] Download flowmeter data	[ ] Reset logging interval to 15 minutes
[x] Remove flowmeter battery	[ ] Change velocity cutoff to 0.02 fps
	[ ] Start program
	[ ] Verify running

Comments:

Date/Time Off-Site: 4/23/26 1258

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Whitewater

SET UP

Personnel: ST, KJ

Date/Time On-Site: 4/21/26 1505

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
4/21/26 1407	2.53	0.26	0.76	–
Enable Condition:	6.35"			
Hysteresis:	1.00"			
Flow Pulse Interval:	1821 cf			

On-Site
- ☒ Check desiccant on flowmeter and sampler
- ☒ Replace flowmeter battery, install sampler battery
- ☒ Perform decon. cycle
- ☒ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Set sampler program parameters
- ☒ Check date/time on sampler
- ☒ Verify all cable and tubing connections
- ☒ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)
- ☒ Direct or Remote; Date/time 4/21/26 1350
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments:

Date/Time Off-Site: 4/21/26 1521

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/23/26 0959

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0959	2.85	0.28	0.68	–
Downloaded to:	ST laptop			

On-Site
- ☒ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)
- ☒ Direct or (Remote); Date/time 4/23/26 959
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 4/23/26 1004

STATION: White Water
Personnel: ST CL

Bottle 1 **of** 5
Date/Time On-Site: 4/22 0605

☒ Halt sampler program	
☒ Put lid on sample bottle; label sample bottle	
Sample ID:	260422-11 -WC
Approx Sample Volume (mL):	12,500
Clarity (ex. Clear, Cloudy, Silty):	Cloudy
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	4/22 0421	Success	13	4/22 0522	Success
2	0430		14	0526	
3	0437		15	0530	
4	0444		16	0534	
5	0450		17	0538	
6	0455		18	0543	
7	0500		19	0547	
8	0504		20	0552	
9	0507		21	0557	
10	0511		22	0602	
11	0515		23	0608	
12	0519		24	0614	

Comments:

Date/Time Off-Site: 4/22/26 0625

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 4/22 0620
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	3.0"	3500 mL	5.5"	7250 mL	8.0"	11000 mL	10.5"	14750 mL
1.0"	800 mL	3.5"	4250 mL	6.0"	8000 mL	8.5"	11750 mL	11.0"	15500 mL
1.5"	1400 mL	4.0"	5000 mL	6.5"	8750 mL	9.0"	12500 mL	11.5"	16250 mL
2.0"	2000 mL	4.5"	5750 mL	7.0"	9500 mL	9.5"	13250 mL	After 12"	1" = 1500 mL
2.5"	2750 mL	5.0"	6500 mL	7.5"	10250 mL	10.0"	14000 mL	Lab min	8,000 mL

Composite Sample Collection

STATION: Whitewater
Personnel: ST, CL
Bottle 2 **of** 5
Date/Time On-Site: 4/22/26 ~~0806~~ ST 0806

☐ Halt sampler program	
☐ Put lid on sample bottle; label sample bottle	
Sample ID:	260422-11 -WC
Approx Sample Volume (mL):	12,500 mL
Clarity (ex. Clear, Cloudy, Silty):	Cloudy
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	ST ~~4/22/26~~ 6:20	Success	13	4/22 743	Success
2	4/22/26 627		14	746	
3	635		15	750	
4	643		16	752	
5	651		17	755	
6	659		18	758	
7	707		19	800	
8	716		20	803	
9	723		21	806	
10	729		22	808	
11	734		23	810	
12	739		24	813	

Comments: Some Sediment/Pebbles stuck in the soft tubing. Removed and started Program again.

Date/Time Off-Site: 4/22/26 834

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☑ Keep flowmeter running
☐ Keep flowmeter running	☑ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☑ Restart program from beginning
	Date/Time Restarted: 4/22 824
	☑ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Whitewater **Bottle** 3 **of** 5

Personnel: ST, GL **Date/Time On-Site:** 4/22/26 0930

☒ Halt sampler program	
☒ Put lid on sample bottle; label sample bottle	
Sample ID:	260422-11 -WC
Approx Sample Volume (mL):	13,250 mL
Clarity (ex. Clear, Cloudy, Silty):	Cloudy
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	4/22 824	Success	13	4/22 849	Success
2	826		14	851	
3	828		15	853	
4	830		16	856	
5	832		17	858	
6	834		18	900	
7	836		19	903	
8	838		20	905	
9	840		21	907	
10	842		22	910	
11	845		23	912	
12	847		24	915	

Comments:

Date/Time Off-Site: 4/22/260936

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 4/22 9:30
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Whitewater **Bottle** 4 **of** 5

Personnel: ST, CL **Date/Time On-Site:** 4/22 1046

☒ Halt sampler program	
☒ Put lid on sample bottle; label sample bottle	
Sample ID:	~~26~~ ST 260422-1.1 -WC
Approx Sample Volume (mL):	13,250 mL
Clarity (ex. Clear, Cloudy, Silty):	Cloudy
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown
QA/QC Sample ID:	-103 (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	4/22/26 934	Success.	13	4/22/26 1014	No more liquid
2	937		14	1018	Success
3	941		15	1021	
4	944		16	1024	
5	947		17	1026	
6	951		18	1029	
7	954		19	1032	
8	958		20	1034	
9	ST 1001		21	1037	
10	1005		22	1039	
11	1008		23	1042	
12	1011		24	1044	

Comments: Secured liquid detect sensor after no more liquid message. Tubing looks clear.

Date/Time Off-Site: 4/22/26 1054

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☐ Power off sampler, if separate from flowmeter	☒ Keep flowmeter running
☐ Keep flowmeter running	☒ Install new 15L bottle; add ice
☐ Add ice to sample transport cooler	☒ Restart program from beginning
	Date/Time Restarted: 4/22 1049
	☒ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Composite Sample Collection

STATION: Whitewater **Bottle** 5 **of** 5

Personnel: ST, CL **Date/Time On-Site:** 4/22/26 11:56

☒ Halt sampler program		
☒ Put lid on sample bottle; label sample bottle		
Sample ID:	260422 - M	-WC
Approx Sample Volume (mL):	~~ST260422~~	13,250mL
Clarity (ex. Clear, Cloudy, Silty):	Cloudy	
Color (ex. Clear, Gray, Tan, Brown, Black):	Brown	
QA/QC Sample ID:	-103	(Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1	4/22/26 1049	Success	13	4/22/26 1122	Success
2	1051		14	1126	
3	1054		15	1129	
4	1056		16	1132	
5	1059		17	1136	
6	1102		18	1139	
7	1104		19	1143	
8	1107		20	1146	
9	1110		21	1150	
10	1113		22	1154	
11	1116		23	1158	
12	1119		24	1202	

Comments:

Date/Time Off-Site: 4/22/26 1218

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle; add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

STATION: Main Alt

SET UP

Personnel: KJ, ST

Date/Time On-Site: 4/21/26 1240

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1242	0.228	0	0	12.3
Enable Condition:	–			
Hysteresis:	–			
Flow Pulse Interval:	–			

On-Site
- ☐ Check desiccant on flowmeter and sampler
- ☐ Replace flowmeter battery, install sampler battery
- ☐ Perform decon. cycle
- ☐ Install 15L sample bottle, with ice
- ☐ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☐ Set sampler program parameters
- ☐ Check date/time on sampler
- ☐ Verify all cable and tubing connections
- ☐ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)
- ☒ Direct or Remote; Date/time 4/21/26 1245
- ☒ Retrieve data and review recent flow history
- NA ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- NA ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- NA ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments: No composite targeted. Composite sampling complete for the water year.

Date/Time Off-Site: 4/21/26 1250

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/23/26 1345

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1345	0.355	0.00	0.09	11.79
Downloaded to:		ST USB		

On-Site
- ☐ Replace flowmeter battery
- ☐ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)
- ☒ Direct or Remote; Date/time _____
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 4/23/26 1351

Set Up/ Shut Down Form – ISCO (Whitewater, Americana, Main, State)

TATION: Americana

SET UP

Personnel: ST, KJ

Date/Time On-Site: 4/21/26 1314

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
1320	4.649	1.283	2.051	11.79
Enable Condition:	—			
Hysteresis:	—			
Flow Pulse Interval:	—			

On-Site
- ☐ Check desiccant on flowmeter and sampler
- ☐ Replace flowmeter battery, install sampler battery
- ☐ Perform decon. cycle
- ☐ Install 15L sample bottle, with ice
- ☐ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☐ Set sampler program parameters
- ☐ Check date/time on sampler
- ☐ Verify all cable and tubing connections
- ☐ Verify sampler program is running

Flowlink (Refer to PG 411 or PG 412, if needed)
- ☒ Direct or Remote; Date/time 4/21/26 1316
- ☒ Retrieve data and review recent flow history
- ☒ Change Wireless Power Control to Storm Event
- ☒ Change Data Storage Rates to 1 minute for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: On Trigger, and set Sampler Enable equation
- ☒ Set Sampler Pacing to Flow Paced, and set trigger volume

Comments: No composite sample. Complete for Water Year.

Date/Time Off-Site: 4/21/26 1321

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/23/26 951

Time	Level (in)	Flow (cfs)	Velocity (fps)	Battery (V)
0956	5.950	2.108	2.337	11.91
Downloaded to:		ST Laptop		

On-Site
- ☒ Replace flowmeter battery
- ☒ Remove battery from sampler

Flowlink (Refer to Flowlink Instructions, if needed)
- ☒ Direct or Remote; Date/time 4/23/26 0952
- ☒ Retrieve data
- ☒ Change Wireless Power Control to Dry Weather
- ☒ Change Data Storage Rates to 15 minutes for Level, Velocity, Total Flow, and Flow Rate
- ☒ Enable Sampler: Never

Comments:

Date/Time Off-Site: 4/23/26 955

Set Up/ Shut Down Form – HACH (Lucky, AS_6)

STATION: AS-6

SET UP

Personnel: KJ, ST

Date/Time On-Site: 4/21/26 1530

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1537	0.46	0.00	0.00	13.0
Enable Condition or Velocity Cutoff:			–	
Deadband:			–	
Trigger Volume:			–	

- ☒ Check desiccant on flowmeter and sampler
- ☒ Install batteries on flowmeter and sampler
- ☒ Perform decon. cycle
- ☐ Install 15L sample bottle, with ice
- ☒ Leave bottle lid at site, in a clean re-sealable plastic bag
- ☒ Verify all cable and tubing connections
- ☒ Check date and time on flowmeter and sampler
- ☒ Set flowmeter program and sampler program parameters
- ☒ Set logging interval to 1 minute
- ☒ Start flowmeter program and sampler program
- ☒ Verify running

Comments: Grab and composite field blank only.

Date/Time Off-Site: 4/21/26 1547

SHUT DOWN

Personnel: ST

Date/Time On-Site: 4/23/26 1329

Time	Level (in)	Flow (gpm)	Velocity (fps)	Battery (V)
1329	0.45	0.00	0.00	12.8
Downloaded to:		ST USB		

If flow monitoring is complete:	If continuing to monitor flow:
☒ Halt program on flowmeter	☐ Replace flowmeter battery
☒ Download flowmeter data	☐ Reset logging interval to 15 minutes
☒ Remove flowmeter battery	☐ Change velocity cutoff to 0.02 fps
	☐ Start program
	☐ Verify running

Comments:

Date/Time Off-Site: 4/23/26 1334

STATION: AS_6 **Bottle** 1 **of** 1

Personnel: ST CL **Date/Time On-Site:** 4/22/26 1225

☐ Halt sampler program	
☐ Put lid on sample bottle; label sample bottle	
Sample ID:	-WC
Approx Sample Volume (mL):	14000 mL
Clarity (ex. Clear, Cloudy, Silty):	Clear
Color (ex. Clear, Gray, Tan, Brown, Black):	Clear
QA/QC Sample ID:	260422-206-001 ~~-103~~ ST (Time: 1200)

Subsample Information

Trigger #	Date/Time	Error Message/ Subsample Result	Trigger #	Date/Time	Error Message/ Subsample Result
1			13		
2			14		
3			15		
4			16		
5			17		
6			18		
7			19		
8			20		
9			21		
10			22		
11			23		
12			24		

Comments:

QC blank filled at 4/21/26 @ 1538. Removed on 4/22/26 @ 12:34.

Date/Time Off-Site: 4/22/26 1234

If sampling is complete:	**If continuing sampling (sample bottle change-out):**
☒ Power off sampler, if separate from flowmeter	☐ Keep flowmeter running
☒ Keep flowmeter running	☐ Install new 15L bottle, add ice
☒ Add ice to sample transport cooler	☐ Restart program from beginning
	Date/Time Restarted: _____
	☐ Verify running

Liquid Height vs. Approximate Sample Volume Conversion Chart

Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume	Liquid Height	Sample Volume
0.5"	400 mL	**3.0"**	3500 mL	**5.5"**	7250 mL	**8.0"**	11000 mL	**10.5"**	14750 mL
1.0"	800 mL	**3.5"**	4250 mL	**6.0"**	8000 mL	**8.5"**	11750 mL	**11.0"**	15500 mL
1.5"	1400 mL	**4.0"**	5000 mL	**6.5"**	8750 mL	**9.0"**	12500 mL	**11.5"**	16250 mL
2.0"	2000 mL	**4.5"**	5750 mL	**7.0"**	9500 mL	**9.5"**	13250 mL	**After 12"**	1" = 1500 mL
2.5"	2750 mL	**5.0"**	6500 mL	**7.5"**	10250 mL	**10.0"**	14000 mL	**Lab min**	8,000 mL

Attachment D: Storm Event Analytical Reports

Report Date: 05/01/2026 11:58

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00467-01	ACST1B	260422-03-WG	Water		4/22/26 3:46	4/22/26 6:25
AC00467-02	ACST1B	260422-11-WG	Water		4/22/26 4:25	4/22/26 6:25
AC00467-03	ACST1B	260422-12-WG	Water		4/22/26 3:45	4/22/26 6:25
AC00467-04	ACST1B	260422-12-101	Water		4/22/26 12:00	4/22/26 6:25
AC00467-05	ACST1B	260422-12-001	Water		4/22/26 12:00	4/22/26 6:25
AC00467-06	ACST1B	260422-14-WG	Water		4/22/26 4:07	4/22/26 6:25

The contents of this report apply to the sample(s) analyzed in accordance with the Chain of Custody document
No duplication of this report is allowed, except in its entirety

Report Date: 05/01/2026 11:58

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260422-03-WG
Date/Time Collected:	04/22/2026 03:46		
Lab Number:	AC00467-01	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B261253	82.0	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/22/26 07:28	4/23/26 8:08	LRF	
Wet Chemistry										
Chlorine Screen	B261254	Absent	mg/L			SM 4500-CL G-2000 mod	04/22/26	4/22/26 6:46	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Analysis Report

Location:	ACST1B	Location Description:	260422-11-WG
Date/Time Collected:	04/22/2026 04:25		
Lab Number:	AC00467-02	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B261253	378.4	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/22/26 07:28	4/23/26 8:08	LRF	
Wet Chemistry										
Chlorine Screen	B261254	Absent	mg/L			SM 4500-CL G-2000 mod	04/22/26	4/22/26 6:46	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Boise, Idaho 83714-1076
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Analysis Report

Location:	ACST1B	Location Description:	260422-12-WG
Date/Time Collected:	04/22/2026 03:45		
Lab Number:	AC00467-03	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B261253	387.3	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/22/26 07:28	4/23/26 8:08	LRF	
Wet Chemistry										
Chlorine Screen	B261254	Absent	mg/L			SM 4500-CL G-2000 mod	04/22/26	4/22/26 6:46	LRF	

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Boise, Idaho 83714-1076
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Analysis Report

Location:	ACST1B	Location Description:	260422-12-101
Date/Time Collected:	04/22/2026 12:00		
Lab Number:	AC00467-04	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B261253	307.6	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/22/26 07:28	4/23/26 8:08	LRF	
Wet Chemistry										
Chlorine Screen	B261254	Absent	mg/L			SM 4500-CL G-2000 mod	04/22/26	4/22/26 6:46	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Water Quality Laboratory
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Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260422-12-001
Date/Time Collected:	04/22/2026 12:00		
Lab Number:	AC00467-05	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B261253	<1.0	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/22/26 07:28	4/23/26 8:08	LRF	U
Wet Chemistry										
Chlorine Screen	B261254	Absent	mg/L			SM 4500-CL G-2000 mod	04/22/26	4/22/26 6:50	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Water Quality Laboratory
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Boise, Idaho 83714-1076
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Fax (208) 608-7319

Analysis Report

Location:	ACST1B	Location Description:	260422-14-WG
Date/Time Collected:	04/22/2026 04:07		
Lab Number:	AC00467-06	Sample Collector:	S.T
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B261253	272.3	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/22/26 07:28	4/23/26 8:08	LRF	
Wet Chemistry										
Chlorine Screen	B261254	Absent	mg/L			SM 4500-CL G-2000 mod	04/22/26	4/22/26 6:50	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Microbiology									
Batch: B261253									
Blank (B261253-BLK1)									
E. Coli	Absent						04/23/2026	LRF	
LCS (B261253-BS1)									
E. Coli				Present			04/23/2026	LRF	
Duplicate (B261253-DUP1)	Source ID: AC00467-01								
E. Coli					Pass	128	04/23/2026	LRF	

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Report Date: 05/01/2026 11:58

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Notes and Definitions

Item	Definition
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Cavan Gerrish
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714–6418
Tel. (208) 407–4284

Purchase Order: 63073050
Project: Stormwater PI
Sampler(s): Steven Turner
Kristen Jolliffe
Shannon Kronz Caden Lewis

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	Analysis Methods: BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg – EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride – EPA 300.0	Total Containers
ACC04G7																									
-01	4/22/26		0846		260422-03-WG	SK	X	X												X					1
-02			0425		260422-11-WG	ST	X	X												X					1
-03			0345		260422-12-WG	CL	X	X												X					1
-04			1200		260422-12-101	CL	X	X												X					1
-05			1200		260422-12-001	CL	X	X												X					1
-06			0407		260422-14-WG	CL	X	X												X					1

Relinquished by (sign)	Date &Time Transferred	Received by (sign)	Comments/ Special Instructions
Caden Lewis	4/22/26 5:21	4/22/26 0625	

C_WQL-PI

ACC04G7

251006 ST

Report Date: 05/01/2026 11:58

Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00466-01	ACST1B	260422-206-WG	Water		4/22/26 4:28	4/22/26 6:25

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Boise City Public Works
Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
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Analysis Report

Location:	ACST1B	Location Description:	260422-206-WG
Date/Time Collected:	04/22/2026 04:28		
Lab Number:	AC00466-01	Sample Collector:	C.L
Sample Type:	Grab	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Microbiology										
E. Coli	B261253	727.0	MPN/100 mL	1.0	1.0	IDEXX - Colilert	04/22/26 07:28	4/23/26 8:08	LRF	
Wet Chemistry										
Chlorine Screen	B261254	Absent	mg/L			SM 4500-CL G-2000 mod	04/22/26	4/22/26 6:50	LRF	

* The reported adjusted "MDL" is sample-specific. The analysis MDL as defined by 40 CFR pt 136 App.B. was corrected for dilution, dry weight, or method-defined ML.

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Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Microbiology									
Batch: B261253									
Blank (B261253-BLK1)									
E. Coli	Absent						04/23/2026	LRF	
LCS (B261253-BS1)									
E. Coli				Present			04/23/2026	LRF	
Duplicate (B261253-DUP1)	Source ID: AC00467-01								
E. Coli					Pass	128	04/23/2026	LRF	

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Notes and Definitions

Item	Definition
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Cavan Gerrish
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714–6418
Tel. (208) 407–4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Cadin Lewis
Kristin Jolliffe

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	Analysis Methods: BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg – EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride – EPA 300.0	Total Containers
AC00466-01	4/22/26		0428		260422-206-WG	CL	X	X												X						1

Relinquished by (sign)	Date &Time Transferred	Received by (sign)
Cadin Lewis	4/22/26 5:21	4/22/26 0625

Comments/ Special Instructions

AC00466

Report Date: 05/12/2026 10:34

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Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Samples in this Report

Lab ID	Sample	Sample Description	Matrix	Qualifiers	Sampled	Received
AC00468-01	ACST1C	260422-11-WC	Water		4/22/26 12:02	4/22/26 13:23
AC00468-02	ACST1C	260422-11-103	Water		4/22/26 12:02	4/22/26 13:23

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Analysis Report

Location:	ACST1C	Location Description:	260422-11-WC
Date/Time Collected:	04/22/2026 04:21 - 04/22/2026 12:02		
Lab Number:	AC00468-01	Sample Collector:	S.T
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B261284	0.334	mg/L	0.0600	0.0600	Timberline Ammonia-001	04/24/26	4/24/26 12:28	ALN	
BOD5	B261269	20.5	mg/L	2.00	2.00	SM 5210 B-2016	04/23/26	4/28/26 8:20	A.T	
Chloride	B261326	3.98	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	04/29/26	4/29/26 14:46	BAK	
COD	B261282	78.0	mg/L	7.00	7.00	HH 8000, SM 5220D	04/23/26	4/23/26 9:57	GJW	
Nitrate-Nitrite, as N	B261336	0.190	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	04/28/26	4/28/26 13:39	EDM	
TKN	B261377	1.72	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	04/30/26	5/1/26 15:32	EDM	
Total Dissolved Solids	B261273	56.3	mg/L	25.0	25.0	SM 2540 C-2015	04/23/26	4/24/26 17:27	NTS	
Total Suspended Solids	B261272	51.6	mg/L	0.900	0.900	SM 2540 D-2015	04/23/26	4/23/26 10:59	ALN	
Turbidity	B261278	28.2	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	04/23/26	4/23/26 10:21	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B261286	0.297	mg/L	2.50E-3	2.50E-3	EPA 365.1, Rev. 2.0 (1993)	04/23/26	4/23/26 15:31	EDM	
Total Metals										
Mercury	B261371	0.0161	ug/L	6.00E-3	6.00E-3	EPA 245.1	04/30/26	4/30/26 12:44	SAS	J
Arsenic	B261405	1.6	ug/L	0.050	0.050	EPA 200.8	05/04/26	5/5/26 11:53	SAS	
Cadmium	B261405	0.048	ug/L	0.010	0.010	EPA 200.8	05/04/26	5/5/26 11:53	SAS	
Calcium	B261393	6.69	mg/L	0.0500	0.0500	EPA 200.7	05/01/26	5/5/26 8:59	SMC	
Lead	B261405	4.0	ug/L	0.010	0.010	EPA 200.8	05/04/26	5/5/26 11:53	SAS	
Magnesium	B261393	1190	ug/L	40.0	40.0	EPA 200.7	05/01/26	5/5/26 8:59	SMC	
Phosphorus as P	B261393	0.446	mg/L	0.0110	0.0110	EPA 200.7	05/01/26	5/5/26 8:59	SMC	
Hardness	B261393	21.6	mg/L	0.125	0.125	SM 2340 B-2011	05/01/26	5/5/26 8:59	SMC	
Dissolved Metals										
Cadmium	B261026	<0.010	ug/L	0.010	0.010	EPA 200.8	04/24/26	4/24/26 16:48	DMW	U
Copper	B261026	4.4	ug/L	0.14	0.14	EPA 200.8	04/24/26	4/24/26 16:48	DMW	
Lead	B261026	0.16	ug/L	5.00E-3	5.00E-3	EPA 200.8	04/24/26	4/24/26 16:48	DMW	
Zinc	B261026	18.0	ug/L	0.50	0.50	EPA 200.8	04/24/26	4/24/26 16:48	DMW	

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Water Quality Laboratory
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Boise, Idaho 83714-1076
Telephone (208) 608-7240
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Analysis Report

Location:	ACST1C	Location Description:	260422-11-103
Date/Time Collected:	04/22/2026 04:21 - 04/22/2026 12:02		
Lab Number:	AC00468-02	Sample Collector:	S.T
Sample Type:	Composite	Sample Matrix:	Water

Analyte Name	Batch	Result	Units	Adjusted MDL *	Method MDL	Analysis Method Reference	Prepared	Analyzed	Analyst Initials	Qualifier
Wet Chemistry										
Ammonia, as N	B261284	0.326	mg/L	0.0600	0.0600	Timberline Ammonia-001	04/24/26	4/24/26 12:32	ALN	
BOD5	B261269	21.5	mg/L	2.00	2.00	SM 5210 B-2016	04/23/26	4/28/26 8:31	A.T	
Chloride	B261326	3.90	mg/L	0.500	0.500	EPA 300.0, Rev. 2.1 (1993)	04/29/26	4/29/26 17:41	BAK	
COD	B261282	76.0	mg/L	7.00	7.00	HH 8000, SM 5220D	04/23/26	4/23/26 9:57	GJW	
Nitrate-Nitrite, as N	B261336	0.190	mg/L	0.0250	0.0250	EPA 353.2, Rev. 2.0 (1993)	04/28/26	4/28/26 13:44	EDM	
TKN	B261377	1.40	mg/L	0.100	0.100	EPA 351.2, 10-107-06-2-M (Equivalent)	04/30/26	5/1/26 15:33	EDM	
Total Dissolved Solids	B261273	55.7	mg/L	25.0	25.0	SM 2540 C-2015	04/23/26	4/24/26 17:29	NTS	
Total Suspended Solids	B261272	50.7	mg/L	0.900	0.900	SM 2540 D-2015	04/23/26	4/23/26 11:00	ALN	
Turbidity	B261278	24.6	NTU	0.3	0.3	EPA 180.1, Rev. 2.0 (1993)	04/23/26	4/23/26 10:40	ALN	
Dissolved Wet Chemistry										
Orthophosphate, as P	B261286	0.296	mg/L	2.50E-3	2.50E-3	EPA 365.1, Rev. 2.0 (1993)	04/23/26	4/23/26 15:33	EDM	
Total Metals										
Mercury	B261371	0.0163	ug/L	6.00E-3	6.00E-3	EPA 245.1	04/30/26	4/30/26 13:01	SAS	J
Arsenic	B261405	1.6	ug/L	0.050	0.050	EPA 200.8	05/04/26	5/5/26 12:11	SAS	
Cadmium	B261405	0.051	ug/L	0.010	0.010	EPA 200.8	05/04/26	5/5/26 12:11	SAS	
Calcium	B261393	6.59	mg/L	0.0500	0.0500	EPA 200.7	05/01/26	5/5/26 9:03	SMC	
Lead	B261405	3.9	ug/L	0.010	0.010	EPA 200.8	05/04/26	5/5/26 12:11	SAS	
Magnesium	B261393	1140	ug/L	40.0	40.0	EPA 200.7	05/01/26	5/5/26 9:03	SMC	
Phosphorus as P	B261393	0.435	mg/L	0.0110	0.0110	EPA 200.7	05/01/26	5/5/26 9:03	SMC	
Hardness	B261393	21.2	mg/L	0.125	0.125	SM 2340 B-2011	05/01/26	5/5/26 9:03	SMC	
Dissolved Metals										
Cadmium	B261026	<0.010	ug/L	0.010	0.010	EPA 200.8	04/24/26	4/24/26 16:12	DMW	U
Copper	B261026	4.1	ug/L	0.14	0.14	EPA 200.8	04/24/26	4/24/26 16:12	DMW	
Lead	B261026	0.19	ug/L	5.00E-3	5.00E-3	EPA 200.8	04/24/26	4/24/26 16:12	DMW	
Zinc	B261026	18.1	ug/L	0.50	0.50	EPA 200.8	04/24/26	4/24/26 16:12	DMW	

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Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry									
Batch: B261269									
Blank (B261269-BLK1)									
BOD5	<2	mg/L					04/28/2026	A.T	Seed-01, U
LCS (B261269-BS1)									
BOD5			101	84.6-115.4			04/28/2026	A.T	
LCS (B261269-BS2)									
BOD5			105	84.6-115.4			04/28/2026	A.T	
Duplicate (B261269-DUP1)	Source ID: BB05607-01								
BOD5					6.56	30	04/28/2026	A.T	
Batch: B261272									
Blank (B261272-BLK1)									
Total Suspended Solids	<0.9	mg/L					04/23/2026	ALN	U
LCS (B261272-BS1)									
Total Suspended Solids			92.3	90-110			04/23/2026	ALN	
Duplicate (B261272-DUP1)	Source ID: BB05613-02								
Total Suspended Solids					5.53	20	04/23/2026	ALN	
Batch: B261273									
Blank (B261273-BLK1)									
Total Dissolved Solids	<25	mg/L					04/24/2026	NTS	U
LCS (B261273-BS1)									
Total Dissolved Solids			98.0	90-110			04/24/2026	NTS	
Duplicate (B261273-DUP1)	Source ID: AC00468-01								
Total Dissolved Solids					1.47	10	04/24/2026	NTS	
Batch: B261278									
Blank (B261278-BLK1)									
Turbidity	<0.3	NTU					04/23/2026	ALN	U
LCS (B261278-BS1)									
Turbidity			104	90-110			04/23/2026	ALN	
Duplicate (B261278-DUP1)	Source ID: AC00468-01								
Turbidity					15.0	25	04/23/2026	ALN	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261282									
Blank (B261282-BLK1)									
COD	<7	mg/L					04/23/2026	GJW	U
LCS (B261282-BS1)									
COD			98.3	90-110			04/23/2026	GJW	
Duplicate (B261282-DUP1) Source ID: AR00006-01									
COD					21.3	10	04/23/2026	GJW	QC-02
Batch: B261284									
Blank (B261284-BLK1)									
Ammonia, as N	<0.06	mg/L					04/24/2026	ALN	U
Blank (B261284-BLK2)									
Ammonia, as N	<0.06	mg/L					04/24/2026	ALN	U
LCS (B261284-BS1)									
Ammonia, as N			102	90-110			04/24/2026	ALN	
LCS (B261284-BS2)									
Ammonia, as N			105	90-110			04/24/2026	ALN	
Duplicate (B261284-DUP1) Source ID: BB05600-01									
Ammonia, as N					2.38	20	04/24/2026	ALN	
Duplicate (B261284-DUP2) Source ID: BB05610-02									
Ammonia, as N					0.579	20	04/24/2026	ALN	D
Matrix Spike (B261284-MS1) Source ID: BB05600-01									
Ammonia, as N			116	84-115			04/24/2026	ALN	QC-05
Matrix Spike (B261284-MS2) Source ID: BB05610-02									
Ammonia, as N			110	84-115			04/24/2026	ALN	D
Matrix Spike (B261284-MS3) Source ID: EP00558-01									
Ammonia, as N			113	84-115			04/24/2026	ALN	
Matrix Spike (B261284-MS4) Source ID: EP00559-01									
Ammonia, as N			112	84-115			04/24/2026	ALN	
Matrix Spike (B261284-MS5) Source ID: AR00005-01									
Ammonia, as N			109	84-115			04/24/2026	ALN	
Matrix Spike Dup (B261284-MSD1) Source ID: BB05600-01									
Ammonia, as N			120	84-115	1.91	20	04/24/2026	ALN	QC-05
Matrix Spike Dup (B261284-MSD2) Source ID: BB05610-02									
Ammonia, as N			107	84-115	1.95	20	04/24/2026	ALN	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261326									
Blank (B261326-BLK1)									
Chloride	<0.5	mg/L					04/29/2026	BAK	U
LCS (B261326-BS1)									
Chloride			95.5	90-110			04/29/2026	BAK	
Duplicate (B261326-DUP1) Source ID: BB05617-03									
Chloride					1.51	10	04/29/2026	BAK	D
Duplicate (B261326-DUP2) Source ID: AC00468-01									
Chloride					0.226	10	04/29/2026	BAK	
Matrix Spike (B261326-MS1) Source ID: BB05617-03									
Chloride			96.3	90-110			04/29/2026	BAK	D
Matrix Spike (B261326-MS2) Source ID: AC00468-01									
Chloride			94.8	90-110			04/29/2026	BAK	
Matrix Spike Dup (B261326-MSD1) Source ID: BB05617-03									
Chloride			97.0	90-110	0.388	10	04/29/2026	BAK	D
Matrix Spike Dup (B261326-MSD2) Source ID: AC00468-01									
Chloride			96.1	90-110	1.20	10	04/29/2026	BAK	
Batch: B261336									
Blank (B261336-BLK1)									
Nitrate-Nitrite, as N	<0.025	mg/L					04/28/2026	EDM	U
Blank (B261336-BLK2)									
Nitrate-Nitrite, as N	<0.025	mg/L					04/28/2026	EDM	U
LCS (B261336-BS1)									
Nitrate-Nitrite, as N			96.0	90-110			04/28/2026	EDM	
LCS (B261336-BS2)									
Nitrate-Nitrite, as N			92.3	90-110			04/28/2026	EDM	
Duplicate (B261336-DUP1) Source ID: AC00468-01									
Nitrate-Nitrite, as N					0.412	10	04/28/2026	EDM	
Duplicate (B261336-DUP2) Source ID: BB05626-01									
Nitrate-Nitrite, as N					0.303	10	04/28/2026	EDM	
Duplicate (B261336-DUP3) Source ID: LS02706-02									
Nitrate-Nitrite, as N					0.163	10	04/28/2026	EDM	
Matrix Spike (B261336-MS1) Source ID: AC00468-01									
Nitrate-Nitrite, as N			94.0	90-110			04/28/2026	EDM	
Matrix Spike (B261336-MS2) Source ID: BB05626-01									
Nitrate-Nitrite, as N			91.0	90-110			04/28/2026	EDM	
Matrix Spike (B261336-MS3) Source ID: LS02706-02									
Nitrate-Nitrite, as N			90.6	90-110			04/28/2026	EDM	
Matrix Spike Dup (B261336-MSD1) Source ID: AC00468-01									
Nitrate-Nitrite, as N			94.2	90-110	0.175	10	04/28/2026	EDM	

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Boise, Idaho 83714-1076
Telephone (208) 608-7240
Fax (208) 608-7319

Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Wet Chemistry (Continued)									
Batch: B261336 (Continued)									
Matrix Spike Dup (B261336-MSD2) Source ID: BB05626-01									
Nitrate-Nitrite, as N			89.9	90-110	0.511	10	04/28/2026	EDM	QC-06
Matrix Spike Dup (B261336-MSD3) Source ID: LS02706-02									
Nitrate-Nitrite, as N			89.7	90-110	0.281	10	04/28/2026	EDM	QC-06
Batch: B261377									
Blank (B261377-BLK1)									
TKN	<0.1	mg/L					05/01/2026	EDM	U
Blank (B261377-BLK2)									
TKN	<0.1	mg/L					05/01/2026	EDM	U
LCS (B261377-BS1)									
TKN			91.5	80-120			05/01/2026	EDM	
LCS (B261377-BS2)									
TKN			95.1	80-120			05/01/2026	EDM	
Duplicate (B261377-DUP1) Source ID: BB05607-01									
TKN					69.1	20	05/01/2026	EDM	M-06, QC-02
Duplicate (B261377-DUP2) Source ID: BB05626-01									
TKN					0.645	20	05/01/2026	EDM	D
Duplicate (B261377-DUP3) Source ID: WB04352-06									
TKN					2.16	20	05/01/2026	EDM	D
Matrix Spike (B261377-MS1) Source ID: BB05607-01									
TKN			77.5	80-120			05/01/2026	EDM	M-06, QC-05
Matrix Spike (B261377-MS2) Source ID: BB05626-01									
TKN			86.9	80-120			05/01/2026	EDM	D
Matrix Spike (B261377-MS3) Source ID: WB04352-06									
TKN			78.5	80-120			05/01/2026	EDM	QC-05
Matrix Spike Dup (B261377-MSD1) Source ID: BB05607-01									
TKN			93.1	80-120	12.0	20	05/01/2026	EDM	M-06, D
Matrix Spike Dup (B261377-MSD2) Source ID: BB05626-01									
TKN			95.0	80-120	2.96	20	05/01/2026	EDM	D
Matrix Spike Dup (B261377-MSD3) Source ID: WB04352-06									
TKN			84.6	80-120	2.40	20	05/01/2026	EDM	D

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Wet Chemistry									
Batch: B261286									
Blank (B261286-BLK1)									
Orthophosphate, as P	<0.0025	mg/L					04/23/2026	EDM	U
LCS (B261286-BS1)									
Orthophosphate, as P			96.7	90-110			04/23/2026	EDM	
Duplicate (B261286-DUP1) Source ID: DX00402-01									
Orthophosphate, as P					0.0550	10	04/23/2026	EDM	
Matrix Spike (B261286-MS1) Source ID: DX00402-01									
Orthophosphate, as P			98.2	90-110			04/23/2026	EDM	
Matrix Spike Dup (B261286-MSD1) Source ID: DX00402-01									
Orthophosphate, as P			98.0	90-110	0.0649	10	04/23/2026	EDM	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals									
Batch: B261371									
Blank (B261371-BLK1)									
Mercury	<0.006	ug/L					04/30/2026	SAS	U
LCS (B261371-BS1)									
Mercury			98.7	85-115			04/30/2026	SAS	
Duplicate (B261371-DUP1) Source ID: AC00468-01									
Mercury					4.20	20	04/30/2026	SAS	J
Duplicate (B261371-DUP2) Source ID: EP00559-01									
Mercury					NR	20	04/30/2026	SAS	U
Matrix Spike (B261371-MS1) Source ID: AC00468-01									
Mercury			100	70-130			04/30/2026	SAS	
Matrix Spike (B261371-MS2) Source ID: EP00559-01									
Mercury			89.4	70-130			04/30/2026	SAS	
Matrix Spike (B261371-MS3) Source ID: EP00548-02RE1									
Mercury			87.3	70-130			04/30/2026	SAS	D
Matrix Spike Dup (B261371-MSD1) Source ID: AC00468-01									
Mercury			95.2	70-130	4.39	20	04/30/2026	SAS	
Matrix Spike Dup (B261371-MSD2) Source ID: EP00559-01									
Mercury			87.9	70-130	1.76	20	04/30/2026	SAS	
Batch: B261393									
Blank (B261393-BLK1)									
Calcium	<0.05	mg/L					05/05/2026	SMC	U
Magnesium	<40	ug/L					05/05/2026	SMC	U
Phosphorus as P	<0.011	mg/L					05/05/2026	SMC	U
LCS (B261393-BS1)									
Calcium			101	85-115			05/05/2026	SMC	
Magnesium			99.3	85-115			05/05/2026	SMC	
Phosphorus as P			102	85-115			05/05/2026	SMC	
Duplicate (B261393-DUP1) Source ID: AC00468-02									
Calcium					0.0267	20	05/05/2026	SMC	
Magnesium					2.57	20	05/05/2026	SMC	
Phosphorus as P					1.39	20	05/05/2026	SMC	
Matrix Spike (B261393-MS1) Source ID: AC00468-02									
Calcium			101	70-130			05/05/2026	SMC	
Magnesium			99.4	70-130			05/05/2026	SMC	
Phosphorus as P			98.6	70-130			05/05/2026	SMC	
Matrix Spike Dup (B261393-MSD1) Source ID: AC00468-02									
Calcium			102	70-130	0.744	20	05/05/2026	SMC	
Magnesium			99.6	70-130	0.205	20	05/05/2026	SMC	
Phosphorus as P			103	70-130	2.13	20	05/05/2026	SMC	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Total Metals (Continued)									
Batch: B261405									
Blank (B261405-BLK1)									
Arsenic	<0.050	ug/L					05/05/2026	SAS	U
Cadmium	<0.010	ug/L					05/05/2026	SAS	U
Lead	<0.010	ug/L					05/05/2026	SAS	U
LCS (B261405-BS1)									
Arsenic			99.1	85-115			05/05/2026	SAS	
Cadmium			102	85-115			05/05/2026	SAS	
Lead			106	85-115			05/05/2026	SAS	
Duplicate (B261405-DUP1) Source ID: AC00468-01									
Arsenic					0.455	20	05/05/2026	SAS	
Cadmium					8.23	20	05/05/2026	SAS	
Lead					0.418	20	05/05/2026	SAS	
Matrix Spike (B261405-MS1) Source ID: AC00468-01									
Arsenic			98.3	70-130			05/05/2026	SAS	
Cadmium			102	70-130			05/05/2026	SAS	
Lead			103	70-130			05/05/2026	SAS	
Matrix Spike Dup (B261405-MSD1) Source ID: AC00468-01									
Arsenic			97.5	70-130	0.683	20	05/05/2026	SAS	
Cadmium			101	70-130	0.501	20	05/05/2026	SAS	
Lead			103	70-130	0.460	20	05/05/2026	SAS	

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Quality Control Report
(Continued)

Analyte Name	Method Blank	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Analyzed	Analyst Initials	Qualifier
Dissolved Metals									
Batch: B261026									
Blank (B261026-BLK1)									
Cadmium	<0.010	ug/L					04/24/2026	DMW	U
Copper	<0.14	ug/L					04/24/2026	DMW	U
Lead	<0.0050	ug/L					04/24/2026	DMW	U
Zinc	<0.50	ug/L					04/24/2026	DMW	U
LCS (B261026-BS1)									
Cadmium			98.9	85-115			04/24/2026	DMW	
Copper			103	85-115			04/24/2026	DMW	
Lead			105	85-115			04/24/2026	DMW	
Zinc			102	85-115			04/24/2026	DMW	
Duplicate (B261026-DUP1) Source ID: AC00468-02									
Cadmium					NR	10	04/24/2026	DMW	U
Copper					0.243	10	04/24/2026	DMW	
Lead					1.54	10	04/24/2026	DMW	
Zinc					0.199	10	04/24/2026	DMW	
Matrix Spike (B261026-MS1) Source ID: AC00468-02									
Cadmium			96.7	70-130			04/24/2026	DMW	
Copper			95.8	70-130			04/24/2026	DMW	
Lead			99.1	70-130			04/24/2026	DMW	
Zinc			95.3	70-130			04/24/2026	DMW	
Matrix Spike Dup (B261026-MSD1) Source ID: AC00468-02									
Cadmium			95.8	70-130	0.998	10	04/24/2026	DMW	
Copper			96.3	70-130	0.325	10	04/24/2026	DMW	
Lead			99.1	70-130	0.0384	10	04/24/2026	DMW	
Zinc			96.4	70-130	0.693	10	04/24/2026	DMW	

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Report Date: 05/12/2026 10:34

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Water Quality Laboratory
11818 Joplin Road
Boise, Idaho 83714-1076
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Notes and Definitions

Item	Definition
D	Data reported from a dilution
J	Estimated value
M-06	The reported result has been confirmed by reanalysis.
QC-02	The RPD is greater than the method acceptance criteria. At least one of the values used to calculate the RPD, is less than or equal to the PQL.
QC-05	The spike recovery of either the MS or MSD is outside method acceptance limits. The batch was accepted because the LCS is within method acceptance criteria.
QC-06	The % recovery for this QC parameter, when rounded, meets method specified criteria.
Seed-01	The seed depletion is greater than that recommended by the method. The LCS is acceptable showing the seed supports the method.
U	Analyte included in the analysis, but not detected
NR	No result for this parameter.

Method Reference Acronyms

Colilert	Colilert, IDEXX Laboratories, Inc.
EPA	Manual of Methods for Chemical Analysis of Water and Wastes, USEPA
GS	USGS Techniques of Water-Resources Investigations
HH	Hach Spectrophotometer Procedures Manual
SM	Standard Methods for the Examination of Water and Wastewater
SW	Test methods for Evaluating Solid Waste, SW-846

Stephen Quintero or Cavan Gerrish
QA/QC Coordinator

Leslea Basterrechea
Water Quality Laboratory Manager

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Ada County Highway District

ACHD

Attn: Steven Turner
3775 Adams Street
Garden City, Idaho 83714–6418
Tel. (208) 407–4284

Purchase Order: 63073050

Project: Stormwater PI

Sampler(s): Steven Turner
Caden Lewis

Lab#	Begin Date	End Date	Begin Time	End Time	Sample Identification	Sampler Initials	Matrix: Water	Type: Grab	Type: Composite	BOD_5 - SM 5210 B	COD - Hach 8000	TSS - SM 2540 D	TDS - SM 2540 C	TKN - EPA 351.2	TP - EPA 200.7	Orthophosphate - EPA 365.1	Total As, Cd, Pb - EPA 200.8	Diss. Cd Cu, Pb, Zn - EPA 200.8	Total Hg – EPA 245.1	E. Coli - IDEXX Colilert	Turbidity - EPA 180.1	Hardness - SM 2340 B-2011	NO_3+NO_2 - EPA 353.2	Timberline Ammonia-001	Chloride - EPA 300.0	Total Containers
AC004168-01	4/22/26	4/22/26	0421	1202	260422-11-WC	ST. CL.	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	5

Relinquished by (sign)	Date &Time Transferred	Received by (sign)
Steven Turner	4/22/26 1319	4/22/26 1323

Comments/ Special Instructions

Please split 260422-11-WC for a duplicate called 260422-11-103.

TEMP°C = 1@5 - 0.9, 2@5 1.9, 3@5 3.5, 4@5 5.4

AC004168

_WQL-PI AC004168 Duplicate → AC004168-02

251006 ST

Attachment D

Americana Sub Watershed Summary

Americana Subwatershed Monitoring Summary

Water Year 2026

Prepared by
Ada County Highway District
September 2026

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Appendix A: Figures A-1
Appendix B: Tables B-1

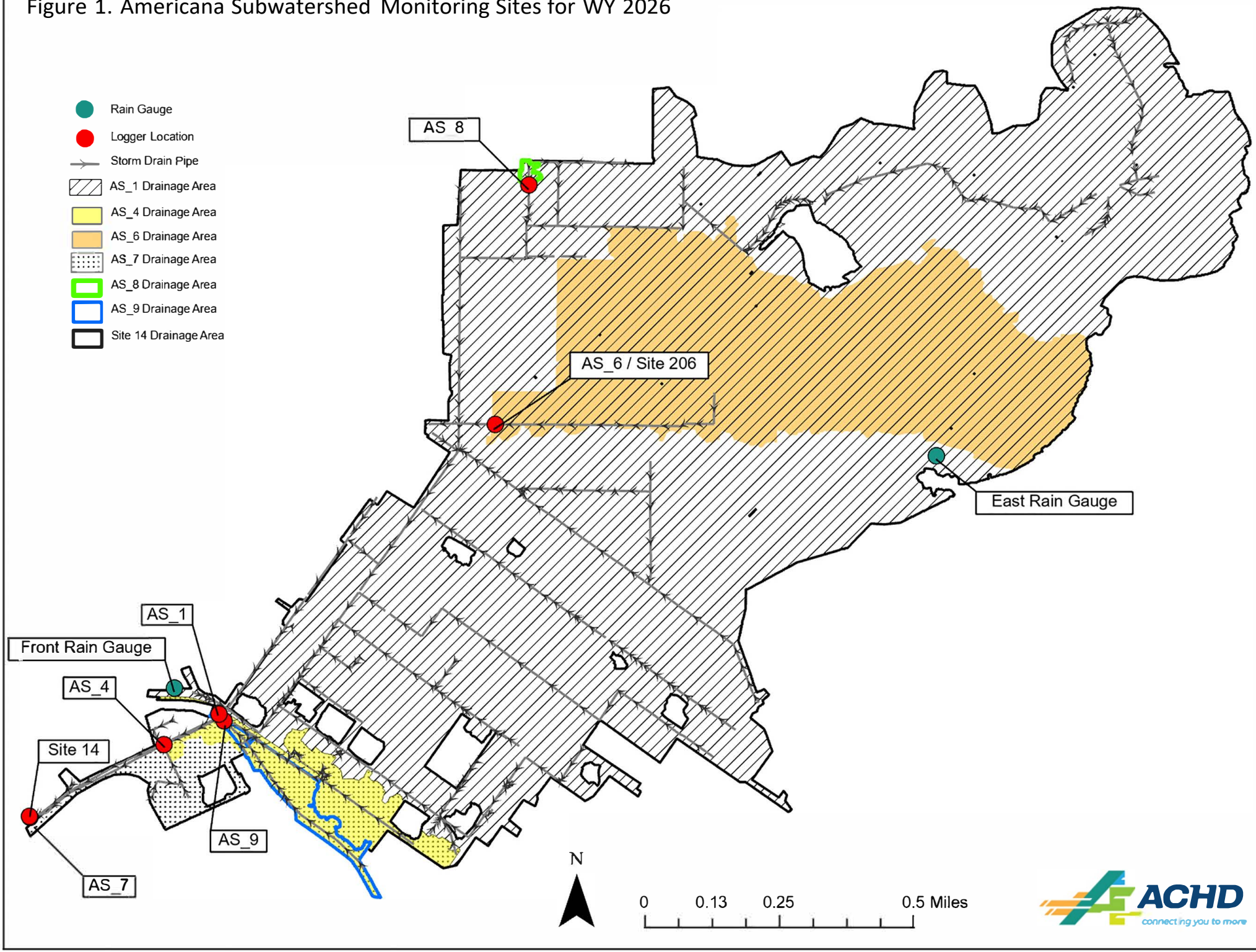
1 Introduction

Ada County Highway District, Boise State University, City of Boise, City of Garden City, Drainage District #3, and the Idaho Transportation Department District #3 (Permittees) were issued a National Pollutant Discharge Elimination System Phase I Permit #IDS027561 (Permit), effective October 1, 2021. The Permit authorizes the Permittees to discharge from municipal separate storm sewer system outfalls to the Boise River and its tributaries. According to Permit Part 6.2.2, *Subwatershed Monitoring,* Permittees are required to conduct monitoring within the Americana subwatershed to better define wet weather and dry weather flow volumes, sources, and pollutant loads.

The Americana subwatershed is one of the largest urban subwatersheds on the lower Boise River and drains a significant portion of downtown Boise and the North End and Foothills residential areas. Stormwater discharge monitoring (flow measurement and analytical sample collection) is currently conducted at the Americana outfall as identified in the *Stormwater Outfall Monitoring Plan* (SWOMP) (ACHD, 2022). While data collected at the outfall is important for understanding discharges to the Boise River, the dataset does not provide much information about the pollutant load and dry weather sources farther up in the storm drain system. Guided by the *Americana Subwatershed Monitoring Plan* (ACHD, 2020), the Americana subwatershed is divided into subcatchments at major nodes in the system to parse out non-stormwater flow sources and characterize pollutant contributions. Per Permit Part 6.4.4, the Permittees submitted the *Americana Subwatershed Monitoring Summary Report 2021-2026*, March 2026, as a final report summarizing all subwatershed monitoring data collected during the Permit cycle (Permit years 1-4) as part of the Permit Renewal Application. The following summary describes Americana subwatershed monitoring activities during water year (WY) 2026 (October 1, 2025 – September 30, 2026), the fifth year of monitoring under the Permit cycle. The data presented were collected between October 1, 2025 – June 30, 2026, to allow time for data to be analyzed and included in this annual report.

In WY 2026, data collection throughout the Americana subwatershed included precipitation, water level, flow, and water quality samples. Precipitation data were collected at two representative locations, and water level data were collected at six subwatershed locations and at the Americana monitoring station. The water level data were compared to the precipitation data to look for anomalies in the municipal separate storm sewer system, such as instances when the water level in pipe increases or decreases without a corresponding precipitation event and when the water level increases from isolated subcatchment areas. Additionally, water quality data from targeted wet weather discharges were collected from one subcatchment site (Site 206) to compare with the Americana outfall site (Site 14). The water quality data, along with flow data, were used to calculate pollutant loads and identify pollutants discharging from Site 206 that are disproportionately high compared to Site 14.

Figure 1. Americana Subwatershed Monitoring Sites for WY 2026



2 Monitoring Sites, Equipment, and Sample Types

Data were collected at the following monitoring sites during WY 2026: AS_1, AS_4, AS_7, AS_8, AS_9, Site 14, Site 206, Front, and East (Figure 1). Details on each of the monitoring sites, including subcatchment areas, pipe characteristics, and equipment deployment start and end dates, are found in Table 1. Figure 2 shows the locations of the monitoring sites in relation to each other using a conceptual layout of the storm drain system.

Site 14 is the Americana outfall monitoring station used in the SWOMP and is the primary outfall representing runoff from the Americana subwatershed. This monitoring site is equipped with a flowmeter and sampler to collect water level, velocity, flow, and composite samples. Water level, velocity, and flow data are collected at 15-minute intervals during dry weather and 1-minute intervals when the equipment is set up to monitor a forecasted storm event.

Site 206 is a subcatchment of the Americana subwatershed. Similar to Site 14, it is equipped with a flowmeter and sampler to collect flow and water quality data during targeted storm events. Site 206 is installed in approximately the same location as AS_6, a water level logger, that was uninstalled in second quarter of WY 2023.

AS_7 is a secondary outfall to Site 14, with a connection between storm drain pipes farther up in the system. This site is equipped with a flowmeter to capture continuous water level, velocity, and flow data at 5-minute intervals.

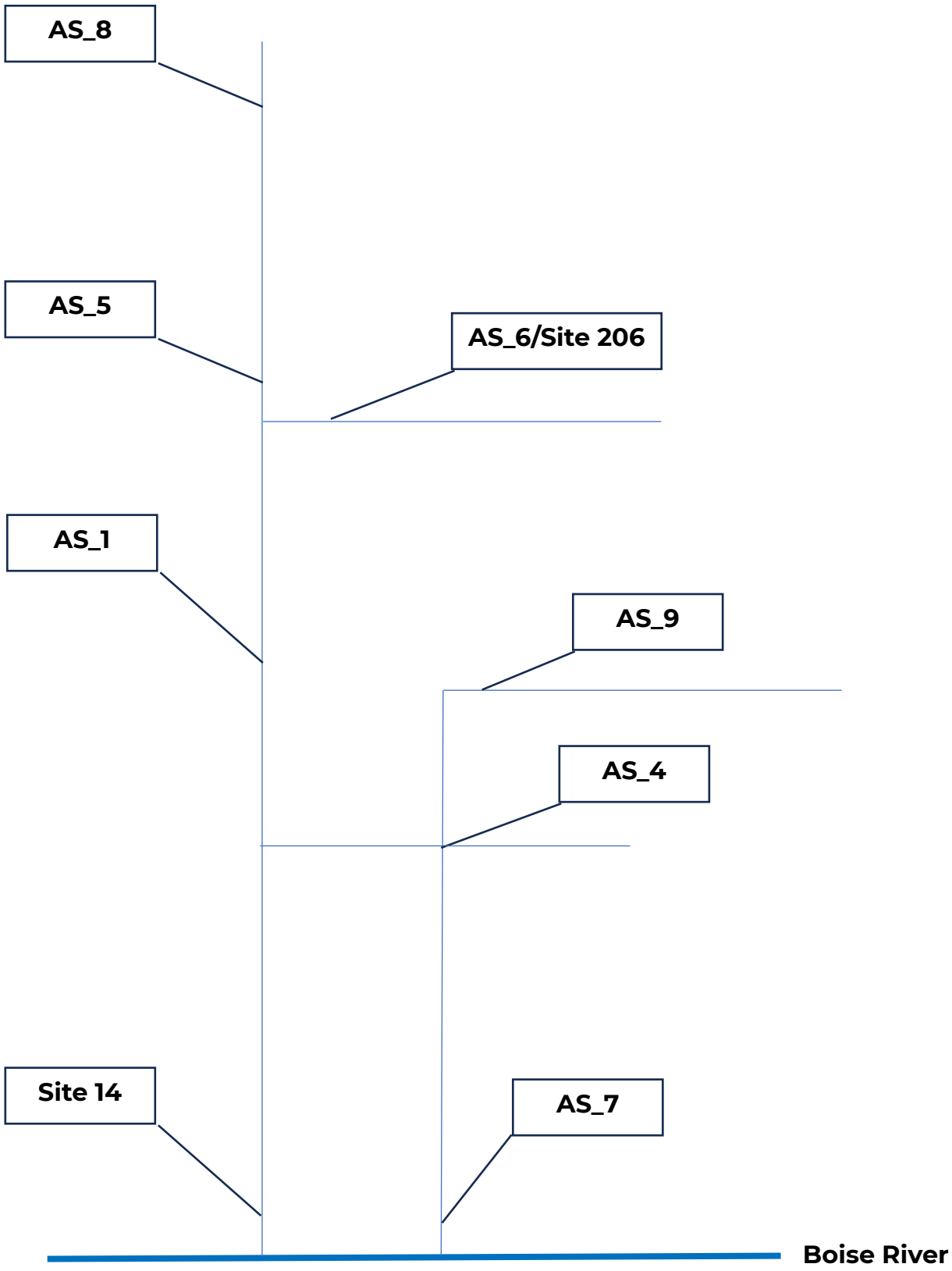
AS_1, AS_4, AS_8, and AS_9 represent subcatchment areas within the Americana subwatershed. Each site is equipped with a water level logger to collect in-pipe water level data. The loggers continuously record pressure readings at 5-minute intervals. The pressure readings are corrected using local barometric pressure and converted to water level.

The AS_8 site was installed during the second quarter of WY 2023 to replace AS_5 and capture Hull's Gulch flows into the Americana storm drain system. The site was temporarily uninstalled between the third quarter of WY 2025 and the second quarter of WY 2026 for pipe cleanings and camera inspection to better assess site conditions and reposition the logger in the storm drain system.

The AS_9 site was added to measure dry weather flow at AS_4 by splitting the subwatershed into two areas, with AS_9 representing the upstream portion of the AS_4 subwatershed.

Front and East are rain gauge sites and are equipped with tipping bucket rain gauges. The rain gauges collect continuous precipitation data in 0.01-inch increments using event data loggers. The precipitation data are used to determine the date and times of wet weather storm events and dry weather periods.

Figure 2. Conceptual Layout of Monitoring Sites



2.1 Water Quality Sample Types

The sample types collected during WY 2026 include grab samples and composite samples. Grab samples represent a discrete measurement from the overall storm discharge while composite samples represent the entire discharge. When possible, grab and composite samples collected at Site 206 coincided with samples collected at Site 14.

Grab samples were manually collected from wet weather discharges using a swing sampler. The grab samples were submitted to the Boise City Public Works Water Quality Laboratory (WQL) and analyzed for *E. coli*. At the time that *E. coli* grab samples were collected, field parameters (temperature, pH, dissolved oxygen, and conductivity) were measured using In-Situ® Aqua TROLL® 400 multiparameter probes.

Composite samples were collected using automatic samplers, which worked in conjunction with flowmeters. After a predetermined volume of flow was discharged, the flowmeters triggered the sampler to collect a subsample. Each subsample was deposited into a 15-liter carboy, resulting in a flow-proportional composite sample. The composite samples were submitted to WQL where they were split for analysis. The following constituents were analyzed: biological oxygen demand, 5-day (BOD_5); chemical oxygen demand (COD); chloride; hardness as calcium carbonate ($CaCO_3$); turbidity; total suspended solids (TSS); total dissolved solids (TDS); total phosphorus (TP); orthophosphate as P; ammonia, as N; nitrate + nitrite, as N; total Kjeldahl nitrogen (TKN); total arsenic; dissolved and total cadmium; dissolved copper; dissolved and total lead; total mercury; and dissolved zinc.

3 Americana Subwatershed Monitoring Results

This section describes water level monitoring results and water quality results and provides high-level conclusions and outcomes based on WY 2026 data.

3.1 Water Level Monitoring Results

For WY 2026, water level data from six monitoring sites (AS_1, AS_4, AS_7, AS_8, AS_9, and Site 14) were evaluated for occurrences of increasing or decreasing water level not attributed to precipitation. Though the pipe size at each site differs, the change in water level is still evident in the data. When a change in water level is seen at one or more sites, the discharge must originate from the site that is farthest “up pipe” in the storm drain system. Figures 3 – 5 (Appendix A) show hydrographs for each quarter of WY 2026. Color bands were applied to the hydrographs to indicate periods where no rain was recorded, but the water level fluctuated at one or more sites for more than two hours. While fluctuations of less than 2 hours were evaluated as non-stormwater sources, these instances were not flagged with color bands to better highlight fluctuations of longer duration in the quarterly summaries. The following conclusions were extracted from visually inspecting the hydrographs:

- Sudden water level increases and decreases were observed, which are likely caused by human-related activities such as turning on a pump or opening a headgate.
- Groundwater infiltration has been observed throughout the storm drain system, contributing to water level increases.
- The recurrent water level spikes first observed at AS_7 in WY 2023 were still present, often starting between 2330 and 0300 or 0900 and 1100. The level spikes occurred most frequently in the third quarter, coinciding with the start of irrigation season in May. Due to consistent, almost daily occurrences, color bands were omitted from WY 2026 quarterly summaries unless an AS_7 water level increase aligned with other site(s) to allow for better graph legibility. The consistent timing and

duration of these spikes occurring only at AS_7 may be associated with a pump located on W. River St. or Americana Blvd. downstream of AS_4.

- Concurrent water level increases and decreases were observed at AS_1, AS_4, AS_9, and Site 14 during the first quarter of WY 2026, similar to observations made in the first three quarters of WY 2025. Using the conceptual pipe layout in Figure 2 as a reference, it becomes apparent that there may be two different pipe connections further in the AS_4 and AS_9 subcatchment areas causing water level anomalies. Further investigation is needed to confirm the location of the pipes in the AS_4 and AS_9 subcatchment areas.
- Non-stormwater discharge originated from the AS_1 subcatchment 58 times, with the most anomalies occurring in the second quarter (52%). Water level increases associated with AS_1 and not the AS_8 subcatchment further up the system indicate that the sources of these level increases are likely located within the downtown Boise area. Non-stormwater discharge sources connecting to this subcatchment have been identified in the downtown area, including several license agreements and the Boise City Canal.
- Non-stormwater discharge originated from the AS_4 subcatchment 23 times, with the most anomalies occurring in the third quarter (82%). Water level fluctuations occurred more frequently at AS_4 than AS_9, which subdivides the AS_4 subcatchment, suggesting that the majority of non-stormwater discharges originate from Front St. or Americana Blvd. in downtown Boise. Several license agreements within this subcatchment area have been identified, including those associated with sump pumps and process water, all of which are downstream of AS_9.

3.2 Water Quality Monitoring Results

During WY 2026, water quality samples from wet weather discharges were collected from one subcatchment site (Site 206) to compare with the Americana outfall site (Site 14). Samples were collected from five storm events. A summary of the storm dates and sample types collected is provided in Table 3-1. Attempts were made to collect samples from both Site 14 and Site 206 during the same storm event. When paired samples were successfully collected from both sites, the water quality results were directly compared to one another. Rejected data and results from samples that were collected from only one of the two sites were omitted from the subsequent discussion; however, comprehensive analytical results from all samples collected are included in Table 2 (Appendix B), attached.

Table 3-1. Storm Event Summary

Storm Event Date	Site 14	Site 206
10/25/2025	Composite	Composite
12/4/2025	Grab[1,2]	--
2/16/2026	Grab[2], Composite	Grab[2], Composite
3/31/2026	Grab, Composite	Grab, Composite
4/22/2026	Grab	Grab

-- = No data

[1] Grab sample rejected due to lack of rain at the time of sample collection.

[2] E. coli sample qualified due to exceeded hold time (>8 and <16 hours).

3.2.1 Grab Samples

Paired grab samples were collected from Site 14 and Site 206 on February 16, 2026; March 31, 2026; and April 22, 2026. *E. coli*, dissolved oxygen, pH, conductivity, and temperature results were compared, and notable conclusions from each storm event are provided below.

February 16, 2026

- Conductivity was approximately 3 times higher at Site 14 than at Site 206.
- Temperature was approximately 1.5 times higher at Site 14 than at Site 206.

March 31, 2026

- *E. coli* was approximately 8 times higher at Site 206 than at Site 14.
- Conductivity was approximately 4.5 times higher at Site 14 than at Site 206.

April 22, 2026

- *E. coli* at Site 206 was approximately 2.5 times higher than at Site 14.

3.2.2 Composite Samples

Paired composite samples were collected from Site 14 and Site 206 on October 25, 2025; February 16, 2026; and March 31, 2026.

Event-specific pollutant loads for each analyzed constituent were calculated by multiplying the volume of discharge as measured at the site by the constituent concentration. The pollutant load estimates, in pounds, are in Table 3 (Appendix B), attached.

To evaluate the contribution Site 206 had on the overall pollutant load discharging from the Americana outfall, the percentage of the pollutant load was compared to the percentage of discharge volume. When the percentage of the pollutant load is greater than the percentage of discharge volume, the pollutant load discharging from the subcatchment is disproportionately high. This logic statement is illustrated below.

$$\frac{pollutant\ load\ (lbs) from\ subcatchment}{pollutant\ load\ (lbs) from\ outfall} > \frac{discharge\ volume\ (cf) from\ subcatchment}{discharge\ volume\ (cf) from\ outfall}$$

$$IF$$

$$THEN$$

$$pollutant\ load\ from\ subcatchment\ is\ disproportionately\ high$$

The percent contribution of pollutant load and the percent contribution of discharge volume were calculated for both Site 206 and Site 14 from each storm event (Figures 6, 7, and 8), attached in Appendix A. The graphs include a vertical orange line indicating the value for the percent of discharge. Constituent loads that exceed the orange line are disproportionately high. Noteworthy outcomes from each paired storm event are presented below.

October 25, 2025

- Load contributions from Site 206 were disproportionately high for all constituents except for the following parameters: chloride; hardness as $CaCO_3$; ammonia, as N; nitrate + nitrite, as N; and total arsenic.

- The percent of pollutant load from Site 206 was approximately 7.5 times higher than the percent of discharge volume for dissolved lead.
- The percent of pollutant load from Site 206 was approximately 3.0 to 3.5 times higher than the percent of discharge volume for BOD_5, COD, TP, orthophosphate as P, and TKN.
- The percent of pollutant load from Site 206 was approximately 2.5 times higher than the percent of discharge volume for total lead.
- The percent of pollutant load from Site 206 was approximately 1.5 to 2.0 times higher than the percent of discharge volume for the following parameters: TDS, dissolved cadmium, total cadmium, dissolved copper, total mercury, and dissolved zinc.

February 16, 2026

- Load contributions from Site 206 were disproportionately high for all constituents except for the following parameters: chloride; TDS; nitrate + nitrite, as N; total arsenic; dissolved cadmium; and dissolved zinc.
- The percent of pollutant load from Site 206 was approximately 6.5 times higher than the percent of discharge volume for hardness as $CaCO_3$.
- The percent of pollutant load from Site 206 was approximately 3.5 to 4.0 times higher than the percent of discharge volume for COD and dissolved lead.
- The percent of pollutant load from Site 206 was approximately 1.5 to 2.0 times higher than the percent of discharge volume for the following parameters: BOD_5, TSS, TP, orthophosphate as P, TKN, dissolved copper, total lead, and total mercury.

March 31, 2026

- Load contributions from Site 206 were disproportionately high for all constituents except for the following parameters: chloride; hardness as $CaCO_3$; TDS; nitrate + nitrite, as N; and total arsenic.
- The percent of pollutant load from Site 206 was approximately 5.5 times higher than the percent of discharge volume for dissolved lead.
- The percent of pollutant load from Site 206 was approximately 4.0 times higher than the percent of discharge volume for orthophosphate as P.
- The percent of pollutant load from Site 206 was approximately 2.5 to 3.0 times higher than the percent of discharge volume for BOD_5, TP, and TKN.
- The percent of pollutant load from Site 206 was approximately 1.5 to 2.0 times higher than the percent of discharge volume for the following parameters: COD; TSS; ammonia, as N; dissolved cadmium; dissolved copper; total lead; and total mercury.

4 Quality Assurance/Quality Control

A data validation review process was used to evaluate the analytical and field parameter results. These checklists were used to compare monitoring methods and monitoring data collected against performance criteria established to meet the data quality objectives described in the *Quality Assurance Project Plan for NPDES Stormwater Permit Monitoring* (QAPP) (ACHD, 2023). Analytical results that were qualified or rejected are identified in Table 2 (Appendix B).

4.1 QC Sample Results

Quality control sampling during WY 2026 consisted of a combination of field QC and laboratory QC samples. Field QC sampling intervals followed a predetermined schedule, included in the SWOMP.

Laboratory QC results are included in each analytical report and attached in the associated Storm Event Reports (Appendix C). Table 4 (Appendix B) summarizes the field QC samples collected during WY 2026.

4.1.1 Field QC Samples

Field QC samples collected during WY 2026 include equipment blanks and field blank composites.

Equipment Blanks

Equipment blanks are QC samples that serve as checks on equipment decontamination procedures. Equipment blanks are collected after new equipment is installed prior to the beginning of sampling for each water year. For WY 2026, equipment blanks were collected on September 9 and September 10, 2025, at Americana and Site 206. Nitrate + nitrite, as N; total arsenic; dissolved copper; and total lead were detected in the blank at Americana. Dissolved copper and dissolved zinc were detected in the blank collected at Site 206. All results were greater than five times the values detected in the equipment blanks and are unqualified.

Field Blank Composites

Field blank composites serve as checks on the cleanliness of field conditions at the time of sampling and are expected to have results less than the MDL. If a water quality parameter is detected in a field blank, all analytical results associated with the blank that exhibit a concentration of less than five times the concentration detected in the blank are qualified. Dissolved copper and dissolved zinc were detected in the composite blank collected at Site 206 on April 22, 2026. All dissolved copper and dissolved zinc results collected at Site 206 throughout WY 2026 were greater than five times the values detected in the composite blank and are unqualified.

Appendix A: Figures

Figure 3. Americana Subwatershed Water Level WY 2026 October–November

Figure 4. Americana Subwatershed Water Level WY 2026 January–March

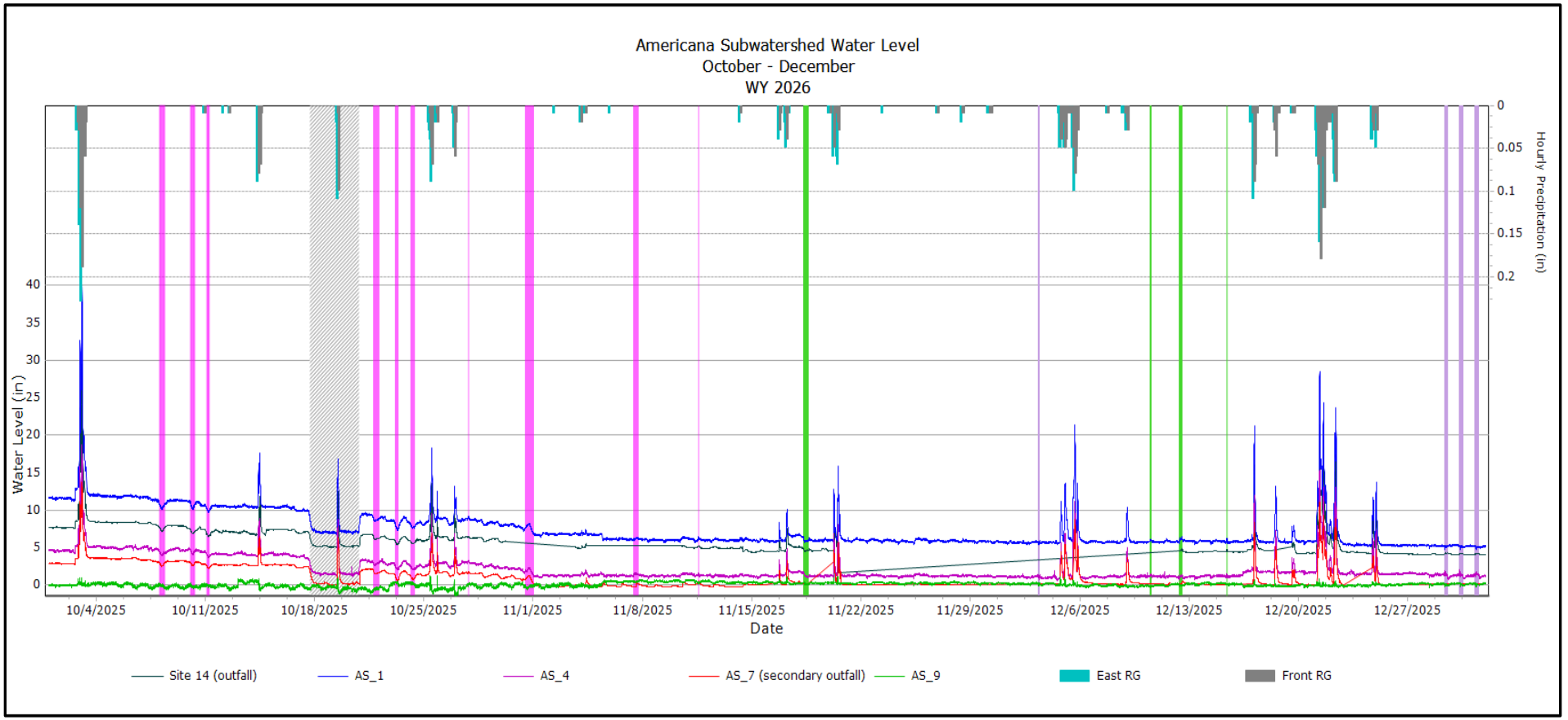
Figure 5. Americana Subwatershed Water Level WY 2026 April–June

Figure 6. Percent Contribution for Storm Event 10/25/2025

Figure 7. Percent Contribution for Storm Event 2/16/2026

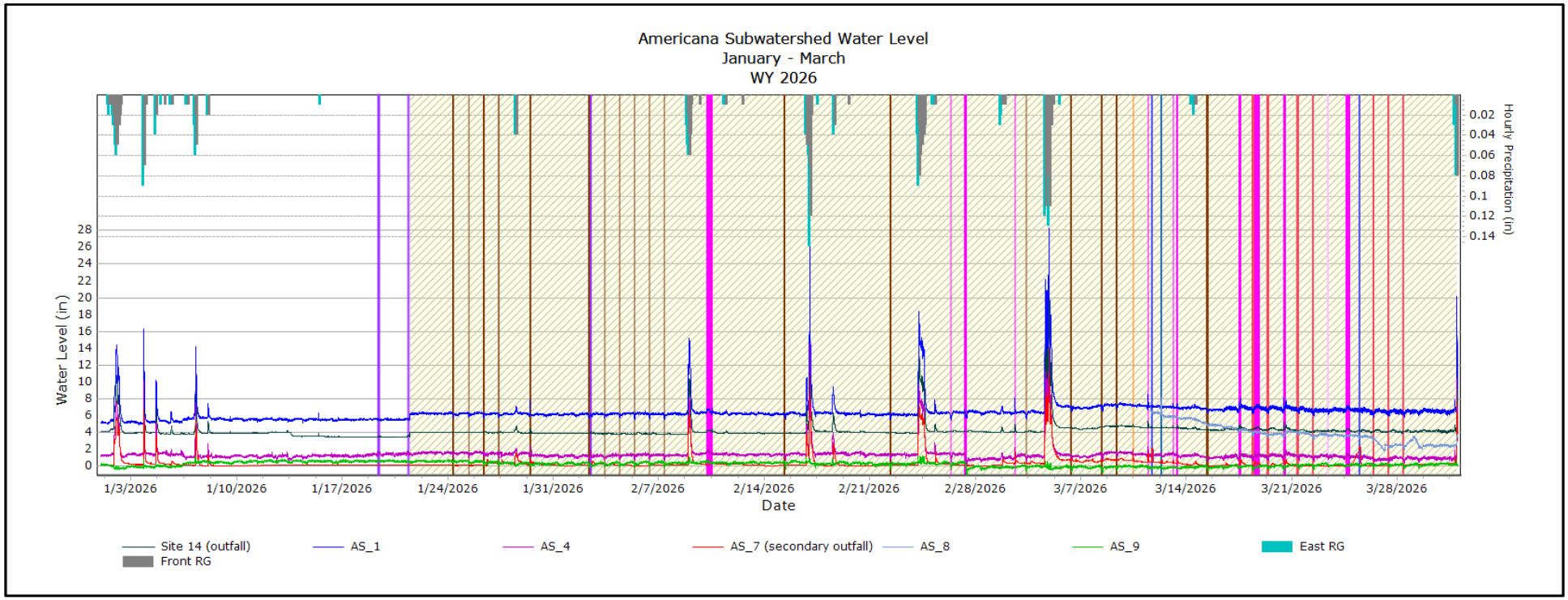
Figure 8. Percent Contribution for Storm Event 3/31/2026

Figure 3. Americana Subwatershed Water Level WY 2026 October - December



Color Code	*Beginning Date Time*	*Duration (hrs)*	*Sites Included*	*Non-stormwater source*
	10/8/2025 1:20	11.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	10/10/2025 1:15	9.0	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	10/11/2025 2:30	5.0	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	10/17/2025 17:05	77.0	AS_1, AS_4, AS_7, Site 14 (Elongated)	AS_1 Subcatchment
	10/21/2025 18:50	9.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	10/23/2025 4:30	6.0	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	10/24/2025 4:25	7.0	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	10/27/2025 19:40	2.0	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	10/31/2025 12:05	13.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	11/7/2025 11:00	7.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	11/11/2025 13:40	2.0	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	11/18/2025 7:45	8.0	AS_1, AS_4, Site 14	AS_1 Subcatchment
	12/3/2025 8:30	3.0	AS_1, AS_4, AS_9, Site 14	AS_1 Subcatchment
	12/10/2025 11:50	3.0	AS_1, AS_4, Site 14	AS_1 Subcatchment
	12/12/2025 9:25	5.0	AS_1, AS_4, Site 14	AS_1 Subcatchment
	12/15/2025 9:10	2.0	AS_1, AS_4, Site 14	AS_1 Subcatchment
	12/29/2025 8:20	6.0	AS_1, AS_4, AS_9, Site 14	AS_1 Subcatchment
	12/30/2025 7:10	6.5	AS_1, AS_4, AS_9, Site 14	AS_1 Subcatchment
	12/31/2025 7:05	6.5	AS_1, AS_4, AS_9, Site 14	AS_1 Subcatchment

Figure 4. Americana Subwatershed Water Level WY 2026 January - March

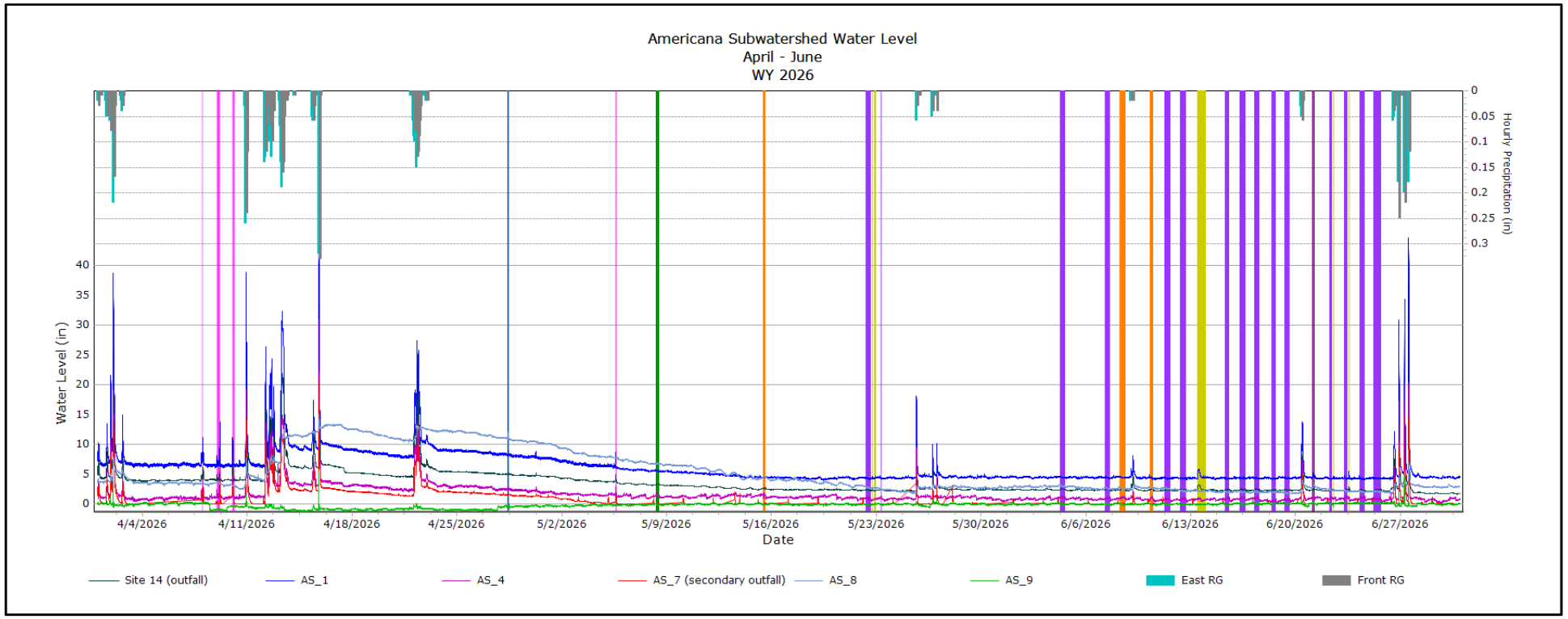


Notes:

1. AS_8 was reinstalled on March 11, 2026.

Color Code	Beginning Date Time	Duration (hrs)	Sites Included	Non-stormwater source
	1/19/2026 7:30	6	AS_4, Site 14	AS_4 Subcatchment
	1/21/2026 7:20	3	AS_4, Site 14	AS_4 Subcatchment
	1/21/2026 11:30	1668	AS_1, Site 14 (Elongated)	AS_1 Subcatchment
	1/24/2026 8:20	2	AS_1, AS_4, AS_7	AS_1 Subcatchment
	1/25/2026 8:35	2	AS_1, AS_4, AS_7	AS_1 Subcatchment
	1/26/2026 8:50	3	AS_1, AS_4, AS_7	AS_1 Subcatchment
	1/27/2026 8:10	2.5	AS_1, AS_4, AS_7	AS_1 Subcatchment
	1/29/2026 11:05	3.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	2/2/2026 8:25	2.5	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/2/2026 10:50	3	AS_4, Site 14	AS_4 Subcatchment
	2/3/2026 8:50	2	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/4/2026 8:45	2	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/5/2026 8:20	2	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/6/2026 8:40	2	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/7/2026 8:15	2	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/10/2026 3:55	11	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	2/15/2026 7:55	3	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/22/2026 7:35	3.5	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/26/2026 7:55	3	AS_1, AS_4, AS_7	AS_1 Subcatchment
	2/27/2026 6:40	5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/2/2026 14:45	2	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/3/2026 8:20	2.5	AS_1, AS_4, AS_7	AS_1 Subcatchment
	3/6/2026 7:35	3.5	AS_1, AS_4, AS_7	AS_1 Subcatchment
	3/8/2026 8:35	3.5	AS_1, AS_4, AS_7	AS_1 Subcatchment
	3/9/2026 8:30	3.5	AS_1, AS_4, AS_7	AS_1 Subcatchment
	3/10/2026 10:50	2	AS_4, AS_7, Site 14	AS_4 Subcatchment
	3/11/2026 10:30	2.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/11/2026 16:25	3	AS_7	AS_7 Subcatchment
	3/12/2026 8:00	2.5	AS_8, AS_1, AS_4, AS_7, Site 14	AS_8 Subcatchment
	3/13/2026 2:00	2.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/13/2026 8:15	4	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/15/2026 8:40	3.5	AS_1, AS_4, AS_7	AS_1 Subcatchment
	3/17/2026 11:50	4	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/18/2026 8:15	4.5	AS_8, AS_1, AS_9, AS_4	AS_8 Subcatchment
	3/18/2026 12:40	9.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/19/2026 7:50	4	AS_8, AS_1, AS_9, AS_4	AS_8 Subcatchment
	3/20/2026 10:35	5.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/21/2026 8:20	3.5	AS_8, AS_1, AS_9, AS_4	AS_8 Subcatchment
	3/22/2026 8:15	3.5	AS_8, AS_1, AS_9, AS_4	AS_8 Subcatchment
	3/23/2026 8:55	3	AS_1, AS_4, AS_8, AS_9, Site 14	AS_8 Subcatchment
	3/24/2026 13:55	7.5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	3/25/2026 11:15	3	AS_7	AS_7 Subcatchment
	3/26/2026 9:30	2	AS_8, AS_1, AS_9, AS_4	AS_8 Subcatchment
	3/27/2026 9:00	3.5	AS_8, AS_1, AS_9, AS_4	AS_8 Subcatchment
	3/28/2026 8:45	3.5	AS_8, AS_1, AS_9, AS_4	AS_8 Subcatchment

Figure 5. Americana Subwatershed Water Level WY 2026 April - June



Color Code	Beginning Date Time	Duration (hrs)	Sites Included	Non-stormwater source
	4/7/2026 22:05	5	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	4/8/2026 22:40	7	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	4/9/2026 23:20	3	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	4/28/2026 9:40	2.5	AS_8, AS_1, AS_4, AS_7, Site 14	AS_8 Subcatchment
	5/5/2026 14:15	2	AS_1, AS_4, AS_7, Site 14	AS_1 Subcatchment
	5/15/2026 11:20	6	AS_4, AS_7, Site 14	AS_4 Subcatchment
	5/15/2026 11:20	4.5	AS_4, AS_7, Site 14	AS_4 Subcatchment
	5/22/2026 7:05	8.5	AS_4, Site 14	AS_4 Subcatchment
	5/22/2026 17:05	2.5	AS_1, Site 14	AS_1 Subcatchment
	5/22/2026 22:10	2	AS_1, Site 14	AS_1 Subcatchment
	5/23/2026 7:05	2	AS_4, Site 14	AS_4 Subcatchment
	6/4/2026 7:05	8	AS_4, Site 14	AS_4 Subcatchment
	6/7/2026 7:25	8	AS_4, Site 14	AS_4 Subcatchment
	6/8/2026 6:55	9	AS_4, AS_7, Site 14	AS_4 Subcatchment
	6/10/2026 7:25	5	AS_4, AS_7, Site 14	AS_4 Subcatchment
	6/11/2026 7:00	9	AS_4, Site 14	AS_4 Subcatchment
	6/12/2026 7:20	10	AS_4, Site 14	AS_4 Subcatchment
	6/13/2026 10:40	14	AS_1, Site 14	AS_1 Subcatchment
	6/15/2026 7:00	8	AS_4, Site 14	AS_4 Subcatchment
	6/16/2026 6:45	10	AS_4, Site 14	AS_4 Subcatchment
	6/17/2026 6:05	9	AS_4, Site 14	AS_4 Subcatchment
	6/18/2026 10:45	7	AS_4, Site 14	AS_4 Subcatchment
	6/19/2026 7:00	8.5	AS_4, Site 14	AS_4 Subcatchment
	6/21/2026 3:45	4	AS_8, AS_1, Site 14	AS_8 Subcatchment
	6/22/2026 7:20	4	AS_4, Site 14	AS_4 Subcatchment
	6/22/2026 12:30	2	AS_1, Site 14	AS_1 Subcatchment
	6/23/2026 6:50	5	AS_4, Site 14	AS_4 Subcatchment
	6/23/2026 13:25	2	AS_1, Site 14	AS_1 Subcatchment
	6/24/2026 7:00	9	AS_4, Site 14	AS_4 Subcatchment
	6/25/2026 5:45	12	AS_4, Site 14	AS_4 Subcatchment

Figure 6. Percent Contribution 10/25/2025

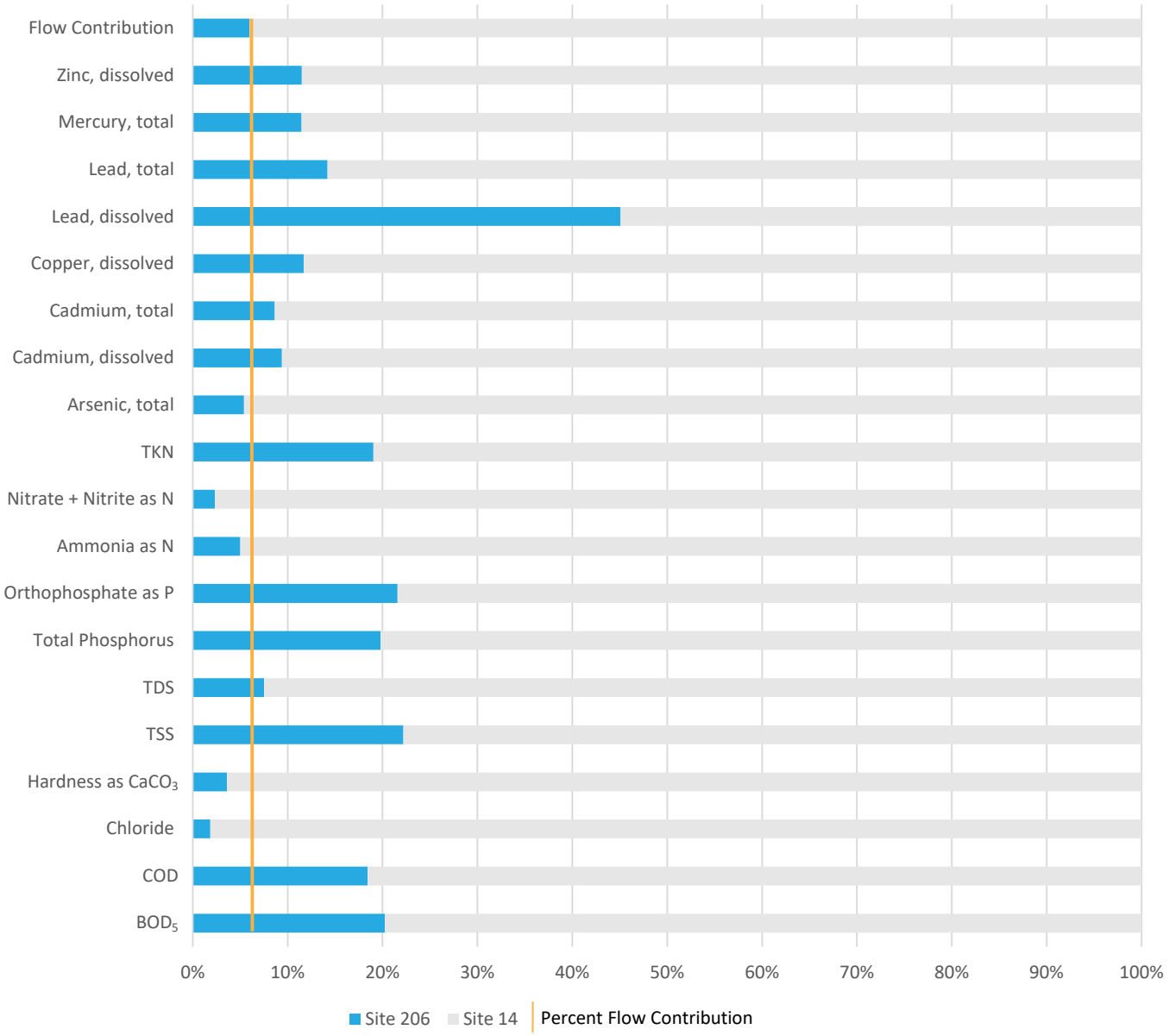


Figure 7. Percent Contribution 2/16/2026

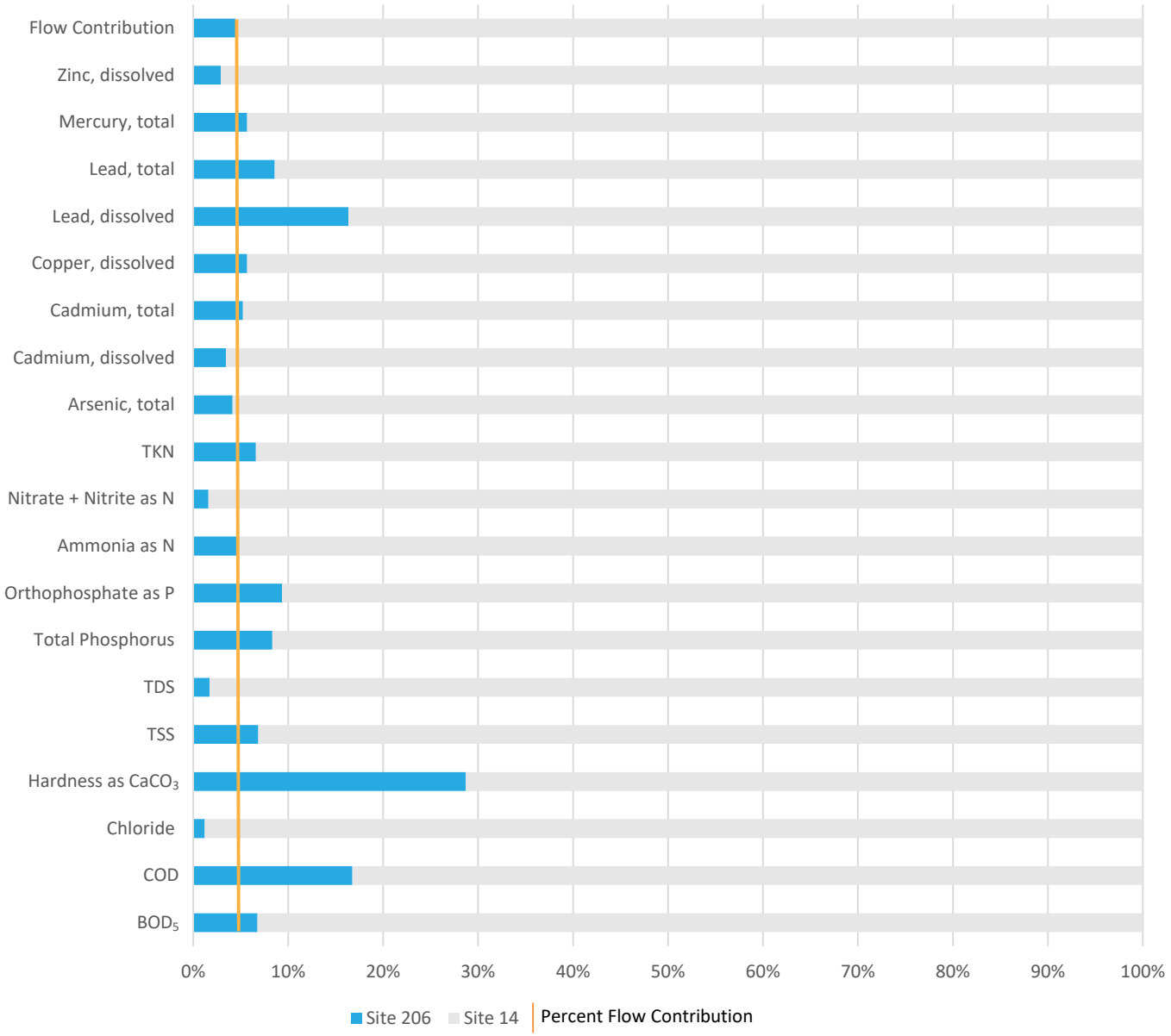
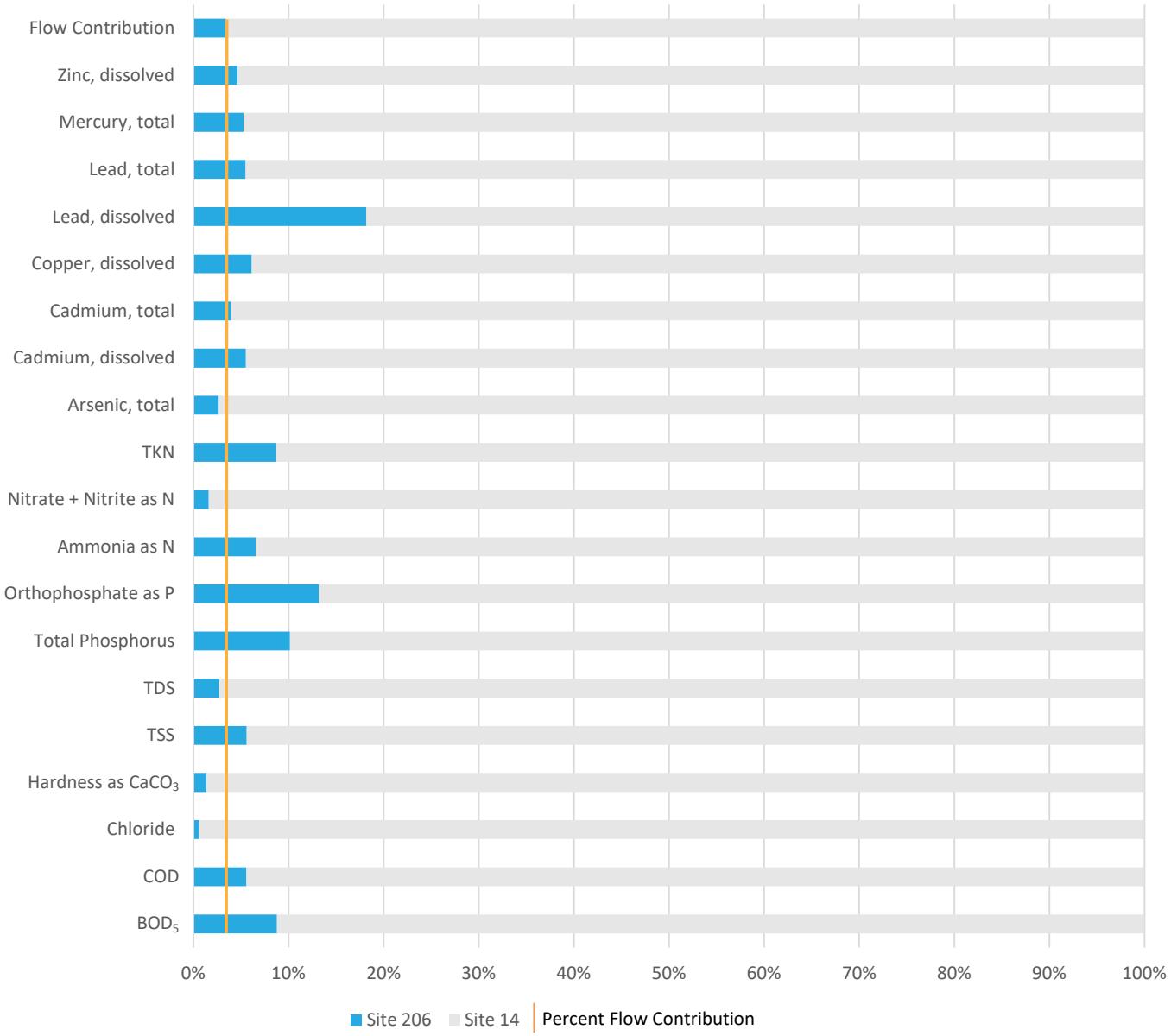


Figure 8. Percent Contribution 3/31/2026



Appendix B: Tables

Table 1. Monitoring Site Information

Table 2. Field and Analytical Data Summary

Table 3. Event Pollutant Loading Estimates in Pounds

Table 4. QC Sample Summary

Table 1. Monitoring Site Information

Monitoring Site Name	Monitoring Site ID	Latitude/ Longitude	Manhole ID (SWMM File)	Manhole ID (Americana Manholes Files)	Subcatchment Total Area (acres)	Subcatchment Impervious Area (acres)	Pipe Diameter (in)	Pipe Construction	Manning's Coefficient (n value)	Pipe Slope	Water Level During Installation (in)	Equipment ID	Equipment Deploy Start Date	Equipment Deploy End Date	Installation Notes
Americana Monitoring Station	Site 14	43°36'57.93"N 116°13'16.37"W	NA	NA	915	291	48	concrete	NA	NA	NA	Hach Flowmeter (FL-23)	2013	9/8/2020	
												Hach Sampler (SA-17)	2013	9/8/2020	
												ISCO Signature Flowmeter (FL-29)	9/8/2020	NA	
												ISCO 6712 Sampler (SA-20)	9/8/2020	NA	
16th_Front	AS_1	43°37'7.57"N 116°12'52.66"W	J87872	33634	869	255	42	concrete	0.015	0.0001	4.13	HOBO U20L-04 Logger (SN:20029104)	8/10/2018	9/15/2023	Logger installed downstream of manhole with conduit facing downstream.
												ISCO 2150 Flowmeter (FL-21)	10/25/2019	1/24/2020	
												HOBO U20L-04 Logger (SN:20029102)	9/15/2023	11/7/2023	
												HOBO U20L-04 Logger (SN:20029105)	11/7/2023	NA	
Americana_River_South	AS_2	43°37'4.63"N 116°13'0.20"W	J5567	35568	39	28	42	concrete	0.015	0.0001	1.5	HOBO U20L-04 Logger (SN:20029109)	8/10/2018	4/28/2020	Large pipe downstream of manhole (south) that leads to secondary outfall with conduit facing downstream flow.
Americana_River_East	AS_3	43°37'4.63"N 116°13'0.20"W	J5567	35568	10	5	16	concrete	0.015	0.0001	2	HOBO U20L-04 Logger (SN:20029106)	8/10/2018	1/6/2021	Small pipe upstream of manhole (east) with conduit facing upstream.
Americana_River	AS_4	43°37'4.63"N 116°13'0.20"W	J5567	35568	29	23	42	concrete	0.015	0.0001	NA	HOBO U20L-04 Logger (SN:20029101)	8/10/2018	3/7/2024	Large pipe upstream of manhole (north) with conduit perpendicular to flow.
											2.7	ISCO 2150 Flowmeter (FL-21)	7/10/2020	3/5/2021	Water level at installation: 2.7 inches
											2	HOBO U20L-04 Logger (SN:20029102)	3/7/2024	4/2/2024	Water level at installation: 2.0 inches
											3	HOBO U20L-04 Logger (SN:21904490)	4/2/2024	NA	Water level at installation: 3.0 inches
15th_Resseguie	AS_5	43°37'36.17"N 116°12'21.10"W	J5577	23810	289	49	30	concrete	0.015	0.0001	1.5	HOBO U20L-04 Logger (SN:20029105)	8/10/2018	2/17/2023	Logger installed downstream of manhole with conduit facing downstream.
14th_Resseguie	AS_6	43°37'35.73"N 116°12'16.60"W	J16834	13187	206	23	22	corrugated metal	0.024	0.0001	NA	HOBO U20L-04 Logger (SN:20029102)	8/17/2018	3/7/2023	Installed downstream of catch manhole.
	Site 206	43°37'35.73"N 116°12'16.60"W	J16834	13187	203	22	18	PVC	0.024	0.0001	NA	Hach Flowmeter (FL-25)	1/23/2020	3/4/2020	Installed upstream of catch manhole and has a smaller drainage area than AS_6. Equipment was uninstalled from 11/14/2025 - 12/16/2025 for roadway construction and storm drain pipe replacement. The storm drain pipe changed from a 22 inch corrugated metal to an 18 inch PVC.
												Hach Flowmeter (FL-18)	3/4/2020	4/18/2024	
												Hach Sampler (SA-11)	1/23/2020	10/9/2020	
												Hach Sampler (SA-13)	10/9/2020	9/16/2024	
												Hach Sampler (SA-14)	9/16/2024	12/10/2024	
												Hach Sampler (SA-09)	12/10/2021	4/18/2024	
												Hach Flowmeter (FL-31)	9/18/2024	3/18/2025	
												Hach Sampler (SA-17)	9/18/2024	11/14/2025	
												Hach Flowmeter (FL32)	3/18/2025	11/14/2025	
												Hach Sampler (SA-17)	12/16/2026	NA	
												Hach Flowmeter (FL32)	12/16/2026	NA	
Americana East	AS_7	43°36'57.66"N 116°13'17.75"W	NA	NA	40	30	42	concrete	0.015	0.00	NA	ISCO 2150 Flowmeter (FL-20)	1/10/2019	NA	ISCO flowmeter installed.
13th_Lemp to Heron	AS_8	43°37'59.66"N 116°12'11.80"W	NA	NA	0.7	0.4	36	corrugated metal	0.024	0.0001	NA	HOBO U20L-04 logger (SN: 20029106)	2/24/2023	11/7/2023	Logger was uninstalled from 7/14/2025 to 3/11/2026 to assess site conditions, allow for pipe cleaning, and reposition the logger installation.
												HOBO U20L-04 logger (SN:20029104)	11/7/2023	7/14/2025	
												HOBO U20L-04 logger (SN:20029104)	3/11/2026	NA	
16th_Rhodes	AS_9	43°37'7.18"N 116°12'52.07"W	NA	NA	10	5	21	concrete	0.015	0.0001	NA	HOBO U20L-04 logger (SN:20029109)	2/24/2023	4/2/2024	There was a data gap between 9/15/2023 and 11/7/2023 because of a dead battery and no replacements. The manufacture sent back the logger and was reinstalled. Logger was unistalled on 4/2/2024 and replaced with SN:21904491.
												HOBO U20L-04 logger (SN:21904491)	4/2/2024	NA	

Table 2. Field and Analytical Data Summary

Sample Date	Monitoring Station	Sample ID Grab	Field Parameters				Analytical Parameters																				
			Dissolved Oxygen	pH	Conductivity	Temperature	E. coli	Sample ID Composite	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
			mg/L	S.U.	µS/cm	°C	MPN/100 mL		mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
10/25/2025	Site 14	--	--	--	--	--	--	251025-14-WC	24.1	78.0	21.1	54.7	21.1	31.9	130	0.356	0.238	0.319	0.560	0.851	2.80	0.0111	0.0548	3.62	0.0674	2.33	0.0118	22.6
	Site 206	--	--	--	--	--	--	251025-206-WC	96.4	277	6.52	32.1	68.5	143	166	1.38	1.03	0.264	0.210	3.15	2.44	0.0178	0.0822	7.55	0.870	6.06	0.0240	46.1
12/4/2025	Site 14	251204-14-WG	9.88[1R]	7.603[1R]	751.2[1R]	10.67[1R]	231.0[1,1R]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/16/2026	Site 14	260216-14-WG	9.33	7.74	505.6	11.86	46.5[1]	260216-14-WC	10.8	88.0	49.2	75.5	24.0	76.3	164	0.244	0.104	0.509	0.858	1.76	2.9	0.013	0.084	2.7	0.076	5.2	0.0156	16.0
	Site 206	260216-206-WG	9.97	7.55	168.6	8.05	51.2[1]	260216-206-WC	16.9	381	8.03	20.0	20.8	121	62.0	0.478	0.230	0.526	0.303	2.67	2.7	0.010	0.10	3.5	0.32	10.5	0.0202	10.3
3/31/2026	Site 14	260401-14-WG	8.725	7.706	564.6	14.39	816.4	260331-14-WC	28.3	146	44.6	92.8	15.7	99.1	203	0.504	0.262	0.996	1.10	2.78	4.4	0.017	0.12	7.1	0.15	5.2	0.0132	38.2
	Site 206	260401-206-WG	8.855	7.449	126.8	11.69	6500	260331-206-WC	76.7	243	7.77	35.9	21.8	166	161	1.61	1.12	1.98	0.505	7.53	3.4	0.028	0.14	13.1	0.94	8.5	0.0207	52.8
4/22/2026	Site 14	260422-14-WG	9.404	7.362	146.5	12.78	272.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Site 206	260422-206-WG	9.292	7.089	105.4	12.16	727.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

-- = No data.

[1] E. coli sample qualified due to exceeded hold time (>8 and <16 hours).

[1R] Data rejected due to lack of rainfall at the time of sample collection.

Table 3. Event Pollutant Load Estimates in Pounds

Event Date	BOD_5		COD		Chloride		Hardness as $CaCO_3$		TSS		TDS		Total Phosphorus		Orthophosphate as P		Ammonia as N		Nitrate + Nitrite as N		TKN		Arsenic, total		Cadmium, dissolved		Cadmium, total		Copper, dissolved		Lead, dissolved		Lead, total		Mercury, total		Zinc, dissolved	
	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206	Site 14	Site 206
10/25/2025	167.4	42.6	541.8	122.4	146.6	2.9	380.0	14.2	221.6	63.2	903	73	2.473	0.610	1.653	0.455	2.22	0.117	3.890	0.093	5.91	1.39	0.0194	0.00108	0.0000771	0.0000079	0.000381	0.0000363	0.0251	0.00334	0.000468	0.000384	0.0162	0.00268	0.0000820	0.0000106	0.157	0.0204
2/16/2026	112.8	8.2	919.2	184.9	788.7	9.7	250.7	100.9	797.0	58.7	1713.1	30.1	2.549	0.232	1.086	0.112	5.32	0.255	8.963	0.147	18.38	1.30	0.0303	0.00131	0.000136	0.00000485	0.000877	0.0000485	0.0282	0.00170	0.000794	0.000155	0.0543	0.00509	0.000163	0.00000980	0.167	0.00500
3/31/2026	133.1	12.8	686.8	40.5	209.8	1.3	436.5	6.0	466.2	27.6	954.9	26.8	2.371	0.268	1.232	0.187	4.69	0.330	5.174	0.0841	13.08	1.25	0.0207	0.00057	0.0000800	0.00000466	0.000564	0.0000233	0.0334	0.00218	0.000706	0.000157	0.0245	0.00142	0.0000621	0.00000345	0.180	0.00879

Table 4. QC Sample Summary

Event Date	Parent Sample	Sample ID	QC Sample Type	Analytical Parameters																				
				E. coli	BOD_5	COD	Chloride	Hardness as $CaCO_3$	Turbidity	TSS	TDS	Total Phosphorus	Orthophosphate as P	Ammonia as N	Nitrate + Nitrite as N	TKN	Arsenic, total	Cadmium, dissolved	Cadmium, total	Copper, dissolved	Lead, dissolved	Lead, total	Mercury, total	Zinc, dissolved
				MPN/100 mL	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
September 9, 2025	--	250909-14-003	Equipment blank	--	<2.00	<7.00	<0.500	<0.125	<0.3	<0.900	<25.0	<0.0110	<0.003	<0.0450	0.0251	<0.100	0.10	<0.0100	<0.0100	0.35	<0.005	0.042	<0.0100	<0.500
September 10, 2025	--	250910-206-003	Equipment blank	--	<2.00	<7.00	<0.500	<0.125	<0.3	<0.900	<25.0	<0.0110	<0.003	<0.0450	<0.0250	<0.100	<0.0500	<0.0100	<0.0100	0.16	<0.005	<0.0100	<0.0100	1.7
April 22, 2026	--	260422-206-002	Composite blank	--	<2.00	<7.00	<0.500	<0.125	<0.3	<0.900	<25.0	<0.0110	<0.00250	<0.0600	<0.0250	<0.100	<0.050	<0.010	<0.010	0.58	<0.010	<0.010	<0.006	1.5

-- = No data.

Attachment E:

Temperature Monitoring Summary

Temperature Monitoring Summary

Water Year 2026

Prepared by
Ada County Highway District
September 2026

Table of Contents

1 Introduction 1
2 Monitoring Sites, Equipment, and Sample Types 1
3 Results 2
4 Quality Assurance/ Quality Control 3
Appendix A: Figures A-1

1 Introduction

Ada County Highway District, Boise State University, City of Boise, City of Garden City, Drainage District #3, and the Idaho Transportation Department District #3 (Permittees) were issued a National Pollutant Discharge Elimination System Phase I Permit #IDS027561 (Permit), effective October 1, 2021. The Permit authorizes the Permittees to discharge from municipal separate storm sewer (MS4) outfalls to the Boise River and its tributaries. According to Permit Part 4.1, *Temperature Monitoring,* Permittees must monitor temperature in stormwater discharges from the MS4 to the Boise River including assessment units 17050114SW005_06, 17050114SW005_06a, and 17050114SW005_06b. The Boise River assessment units (AU) within the Permit area are 17050114SW011a_06 and 17050114SW005_06. The remaining two AUs, 17050114SW005_06a and 17050114SW005_06b, are not in the Permit area and therefore do not receive Permittee stormwater contributions. Temperature data is collected from all water quality samples collected from the MS4 to the Boise River and other waterways. The following summary provides temperature data collected during water year (WY) 2026 (October 1, 2025 – September 30, 2026) from the MS4 directly to the Boise River assessment units 17050114SW011a_06 and 17050114SW005_06. The data presented were collected between October 1, 2025, and June 30, 2026, to allow time for data to be analyzed and included in this annual report.

2 Monitoring Sites, Equipment, and Sample Types

Temperature monitoring occurred at 11 outfalls that discharge to the Boise River assessment units 17050114SW011a_06 and 17050114SW005_06. Temperature data were collected as either discrete or continuous measurements. Discrete measurements represent one instance in time and were measured manually using In-Situ® Aqua TROLL® 400 multiparameter probes. Continuous temperature measurements were collected at specified intervals by ISCO® area velocity sensors installed at Main/ Main Alternate, Americana, and AS_7, and a HOBO® Tidbit® temperature logger installed at Plantation. Table 2-1 below displays the assessment unit designation, number of outfalls where temperature data was collected, outfall ID, and sample type. Figure 1 is a map of the sampled outfall locations.

Table 2-1. Temperature Monitored Outfalls to the Boise River

Assessment Unit	# of Temperature Monitored Outfalls	Outfall ID (Station Name)	Sample Type
17050114SW011a_06	10	3n2e04_010 (Main/ Main Alternate)	Discrete and Continuous
		3n2e09_024 (Americana)	Discrete and Continuous
		3n2e09_025 (AS_7)	Continuous
		3n2e10_012	Discrete
		3n2e10_022	Discrete
		3n2e10_031	Discrete
		3n2e14_012	Discrete
		3n2e14_013	Discrete
		3n2e14_017	Discrete
		3n2e24_025	Discrete
17050114SW005_06	1	4n2e30_012 (Plantation)	Continuous

3 Results

All discrete dry weather and wet weather temperature results collected during WY 2026 are provided in Table 3-1, organized by outfall ID and date. Figure 2 provides a visual representation of the accepted data derived from dry weather or wet weather discharges, symbolized by a circle or star, respectively.

Table 3-1. Discrete Temperature Results

Outfall ID (Station Name)	Date	Weather	Temperature (°C)
3n2e04_010 (Main/ Main Alternate)	12/4/2025 2/16/2026 3/31/2026 4/22/2026	Wet Weather	8.104 10.28 12.00 14.78
3n2e09_024 (Americana)	1/14/2026 5/7/2026 5/13/2026	Dry Weather	15.32 16.54 18.16
3n2e09_024 (Americana)	12/4/2025 2/16/2026 3/31/2026 4/22/2026	Wet Weather	10.67[1R] 11.86 14.39 12.78
3n2e10_022	11/14/2025 1/14/2026 6/5/2026	Dry Weather	17 14.72 20.88
3n2e10_031	6/10/2026	Dry Weather	15.14
3n2e14_012	5/7/2026 5/13/2026	Dry Weather	11.96 12.22
3n2e14_013	1/14/2026 5/7/2026	Dry Weather	14.44 14.81
3n2e14_017	11/14/2025 6/18/2026	Dry Weather	16.88 16.66
3n2e24_025	6/3/2026	Dry Weather	17.99

Notes:

[1R] Data rejected due to insufficient rainfall at the time of sample collection.

Graphs of continuous temperature results are found in Figures 3-6. Figure 3 includes continuous temperature collected only during targeted storm events. The graphs from sites where temperature is recorded using ISCO® area velocity sensors (Figures 3-5) display water temperature, water level, and hourly precipitation for reference. Temperature at the Plantation site is recorded using a HOBO® TidbiT® temperature logger that records data associated with the presence of water. Figure 6 displays Plantation temperature results and hourly precipitation for reference. Notable observations from these graphs are discussed below.

On April 21, 2026, monitoring equipment was installed at the Main Alternate monitoring station due to high water levels in the Boise River surcharging the Main monitoring station. The April 22, 2026, data displayed in Figure 3 were collected at Main Alternate.

During the first quarter of WY 2026, several area velocity sensor malfunctions occurred at the Americana monitoring station, resulting in large data gaps reflected in Figure 4. The malfunctions were resolved by replacing the area velocity sensor and resetting the site programming.

Throughout WY 2026, low water levels were often observed at AS_7. According to the sensor manufacturer, accuracy of the area velocity sensor decreases at water levels below one inch. It is difficult to discern the accuracy of the low flow data and distinguish between air and water temperature under these conditions. Therefore, all recorded temperature data from AS_7 has been included in the graph shown in Figure 5, except when recorded water levels decreased to negative values. Negative level values and associated temperature data were rejected due to confidence in dry pipe conditions at those times.

Gaps in the Plantation temperature data, shown in Figure 6, indicate water was not present or the data was rejected due to debris interference. Unlike the other graphs of continuous temperature results, water level data is not available at this monitoring site. From late March through the end of June, daily intermittent water temperature readings were recorded. Due to the daily occurrences of these readings, temperature in Figure 6 appears to be continuous despite being intermittent throughout each day. Visual observations have confirmed that the intermittent readings can often be attributed to sprinkler runoff throughout the drainage area. On May 29, 2026, debris was observed on the temperature logger, which yielded results that water was present when the logger was observed to be dry. Therefore, temperature readings recorded from May 27, when the logger began recording water presence, until May 29, when the logger was cleaned, have been rejected.

4 Quality Assurance/ Quality Control

All dry weather temperature samples collected throughout WY 2026 met program criteria and are accepted. Rejected discrete wet weather temperature samples are identified in Table 2-1. Further information regarding rejected wet weather samples can be found in the Storm Event Reports located in Appendix C of the *Stormwater Outfall Monitoring Summary* (ACHD, 2026). The following program criteria were used to identify representative grab sample collection for wet and dry weather temperature samples.

Wet Weather

- Storm criteria are met when the precipitation amount is greater than 0.10 inches, and the storm was preceded by a minimum of 72 hours of dry weather from the previous measurable storm event (rainfall greater than 0.10 inches).
- Grab sample collection occurred within the composite sample duration.
- Sufficient rainfall occurred at the time of grab sample collection.

Dry Weather

- Dry weather criteria are met when the antecedent dry period is less than 0.10 inches for the previous 72-hour period.
- Temperature measurements were taken within fifteen minutes of sample collection.

Appendix A: Figures

Figure 1. Location Map of Temperature Monitored Outfalls WY 2026

Figure 2. Discrete Temperature Graph WY 2026

Figure 3. Continuous Temperature Graph – Main/ Main Alternate WY 2026

Figure 4. Continuous Temperature Graph – Americana WY 2026

Figure 5. Continuous Temperature Graph – AS_7 WY 2026

Figure 6. Continuous Temperature Graph – Plantation (4n2e30_012) WY 2026

Figure 1. Location Map of Temperature Monitored Outfalls WY 2026

Created: 7/10/2026



Figure 2. Discrete Temperature Graph WY 2026

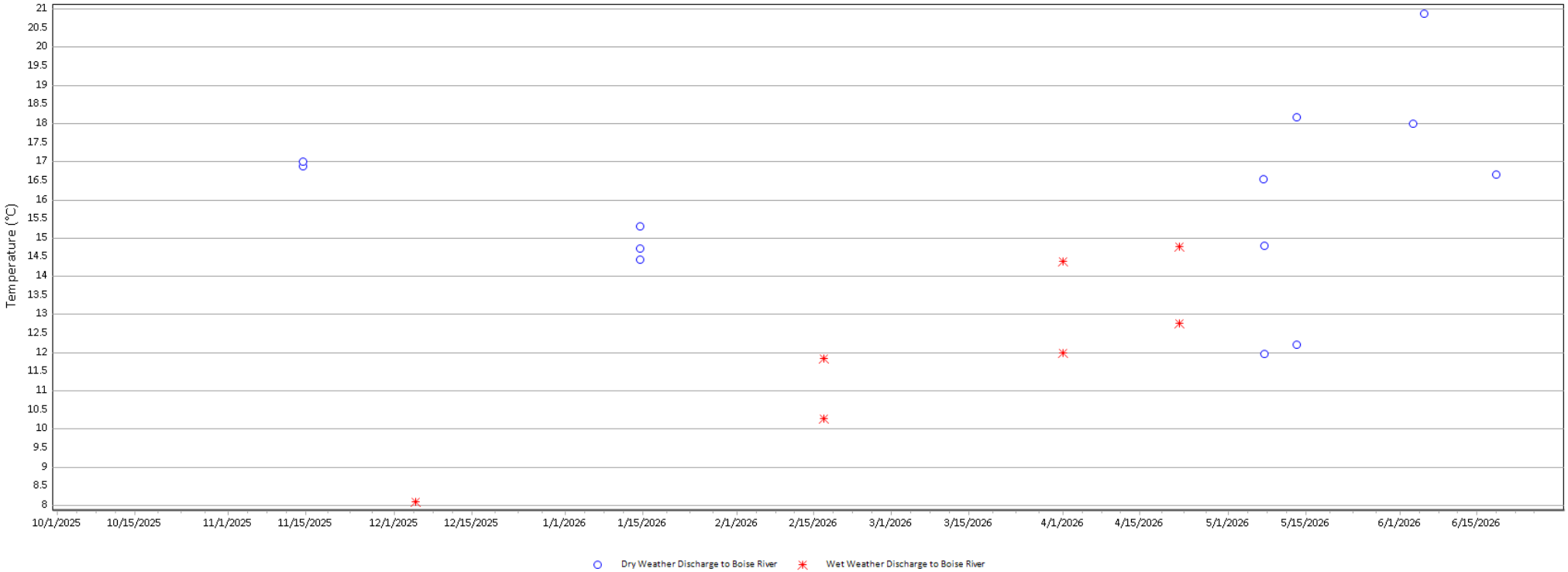


Figure 3. Continuous Temperature Graph - Main/ Main Alternate WY 2026

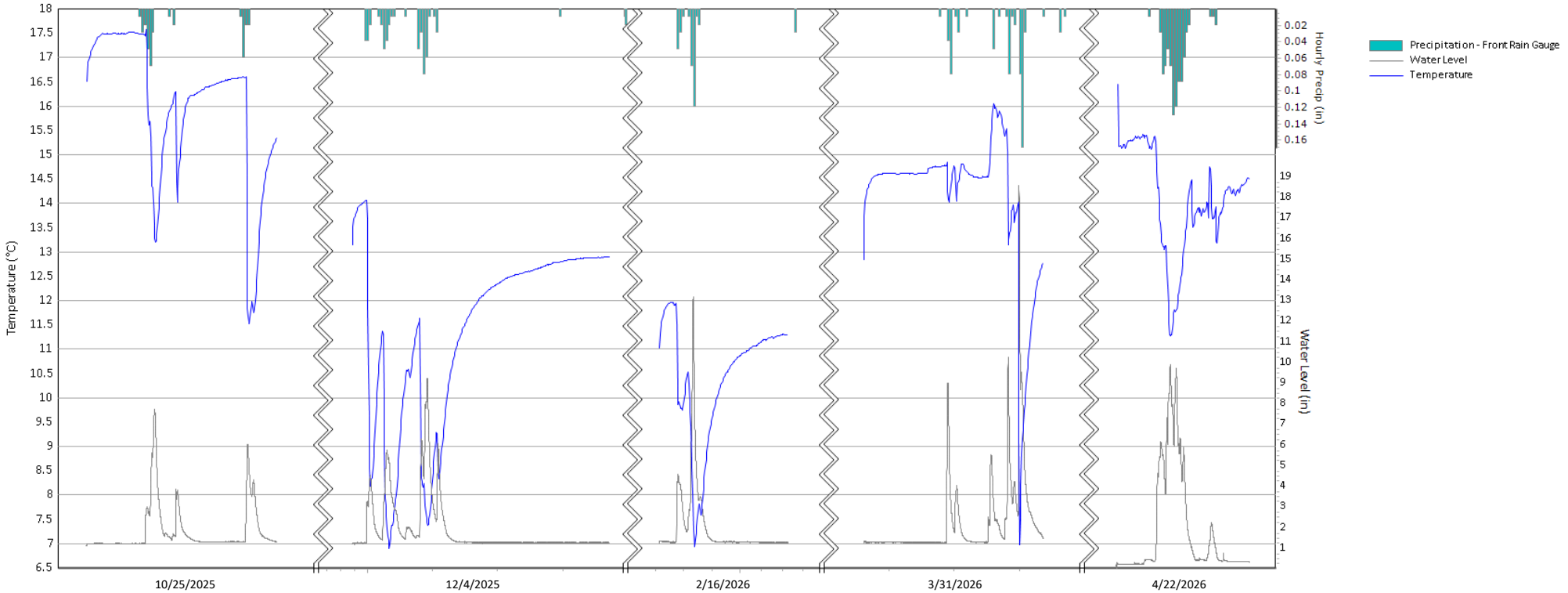


Figure 4. Continuous Temperature Graph - Americana WY 2026

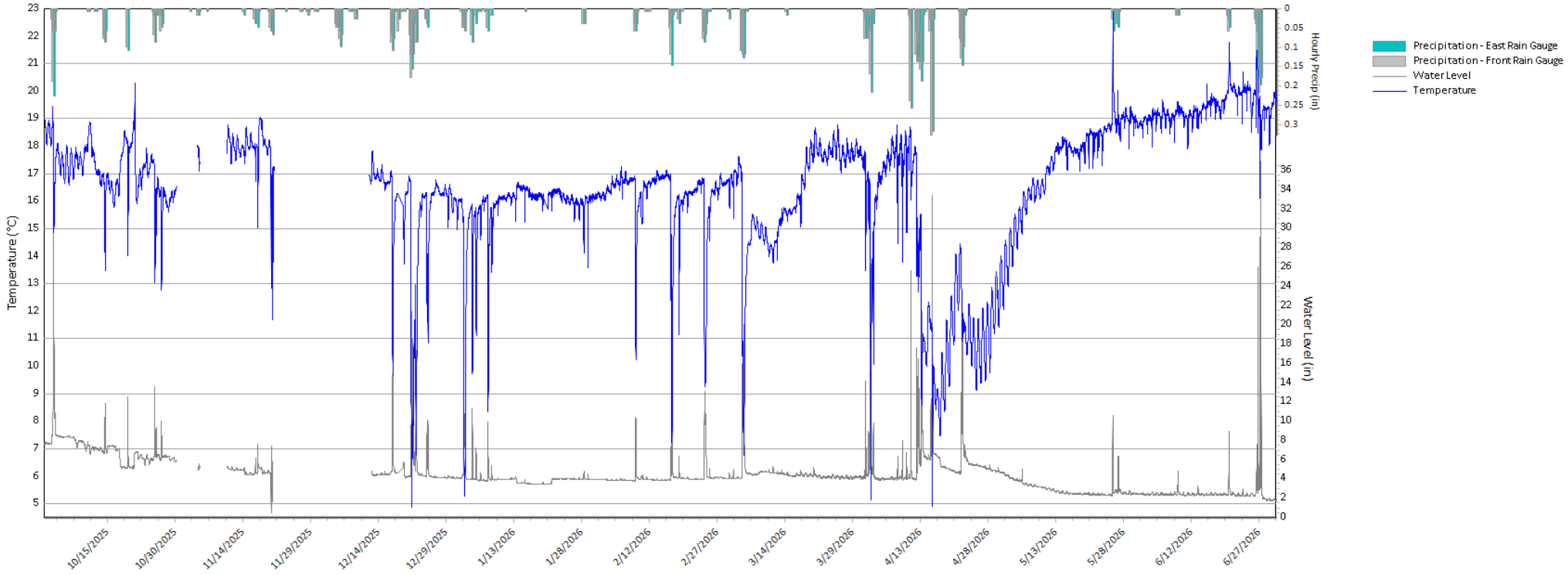


Figure 5. Continuous Temperature Graph - AS_7 WY 2026

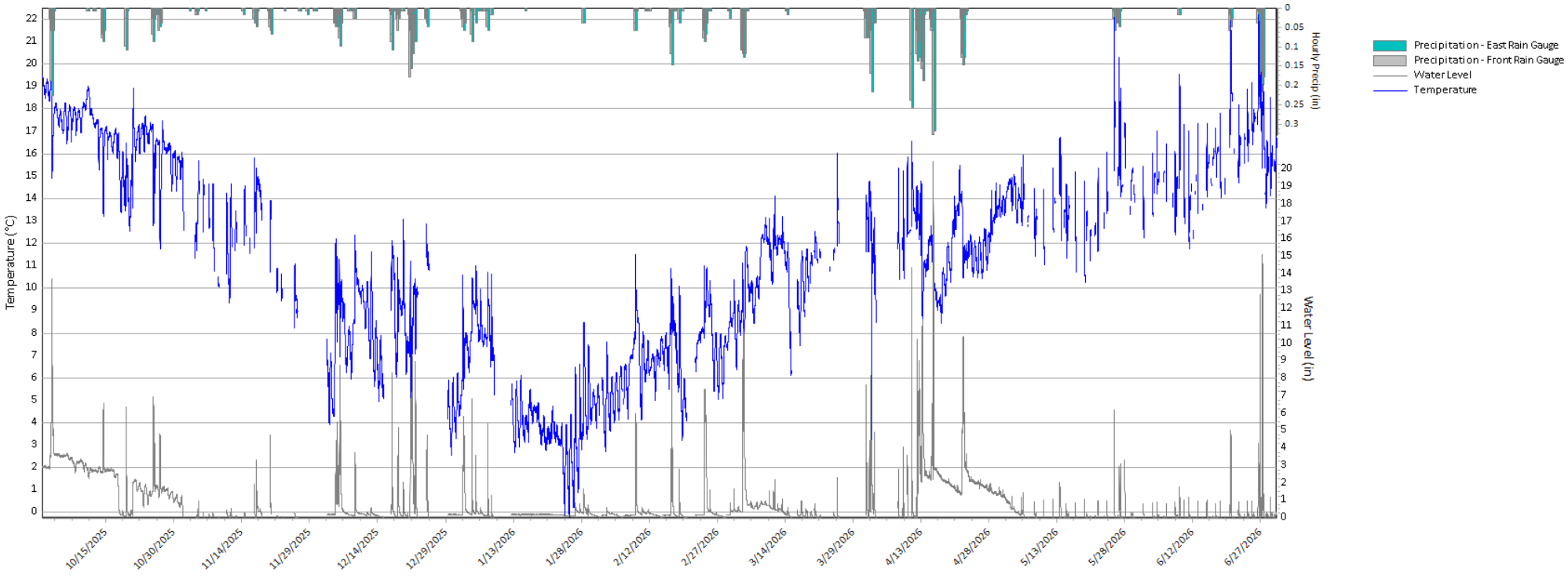
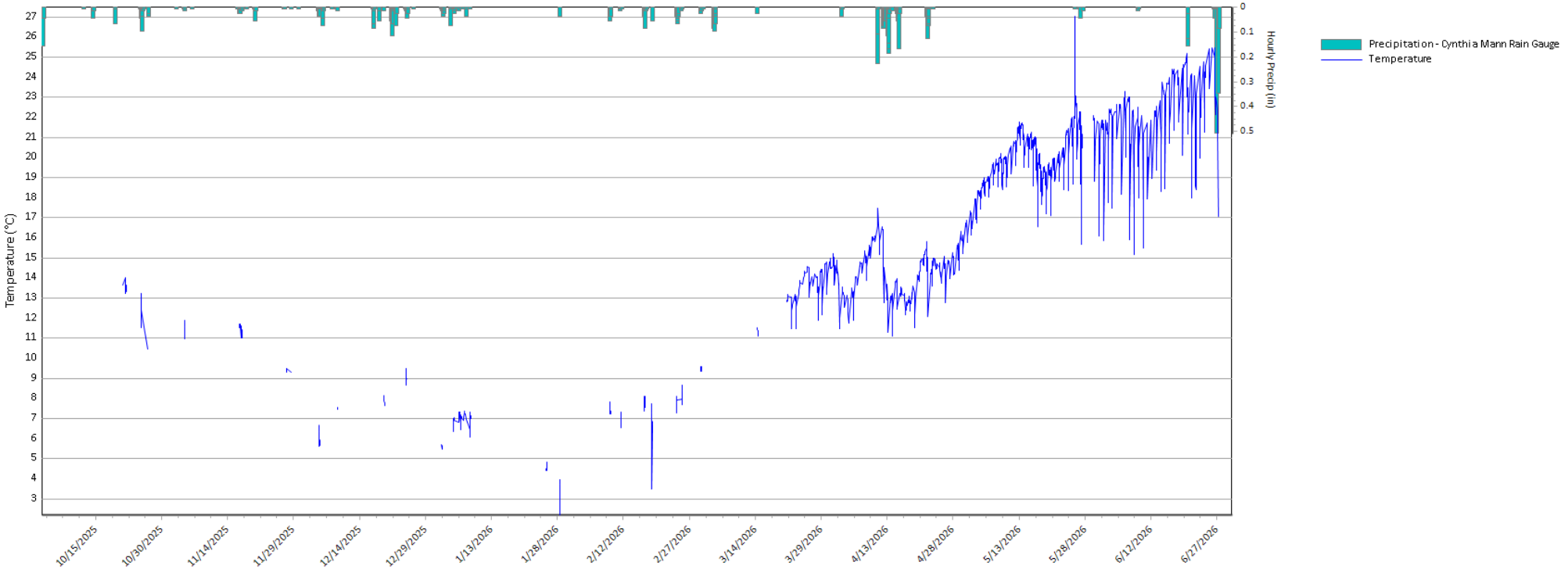


Figure 6. Continuous Temperature Graph – Plantation (4n2e30_012) WY 2026



Attachment F:

ITD Dry Weather Monitoring

IIDIFF

Submitted By: D3_GISData

Submitted Time: September 15, 2026 1:54 PM

Creation Time: September 25, 2026 10:42 AM

Page 1

further_action

Initial Information

Today's Date

September 15, 2026

Time

08:38

Outfall ID

01-05

Investigator

GV

Subwatershed

Warm Springs Canal

Title

Env Plnr

Highway Description / Location

Coffee St, Boise

Temperature (^{0}F)
51

Rainfall (in.)
Last 24 Hours
0

Last 48 Hours
0

Last 72 Hours
0

Latitude
43.65695472749186

Longitude
-116.28406331566727

MS4 Area
Phase I

Event Communication

Sampling Event
Dry Weather Screening

Event Initiation & Date

Event Initiation

Annual screening

Date of Initiation

September 15, 2026

Field Observations

Drainage Area Description

Channel- Urban

Condition

Good

Maintenance

N/A

Material

Other

Shape

Circular

Submerged

Diameter/Dimensions (in.)
8

Material

Width

Depth

Flow Present
No

Page 2

Nature of Discharge

Other

Flow Description

IIDIFF

Submitted By: D3_GISData

Submitted Time: September 15, 2026 1:55 PM

Creation Time: September 25, 2026 10:42 AM

Page 1

further_action

Initial Information

Today's Date

September 15, 2026

Time

13:19

Outfall ID

01-03

Investigator

Gv

Subwatershed

Ridenbaugh canal

Title

Env plnr

Highway Description / Location

I-84

Temperature (^{0}F)
69

Rainfall (in.)
Last 24 Hours
0

Last 48 Hours
0

Last 72 Hours
0

Latitude
43.5995822530057

Longitude
-116.55787410998957

MS4 Area
Phase I

Event Communication

Sampling Event
Dry Weather Screening

Event Initiation & Date

Event Initiation
Annual screening

Date of Initiation
September 15, 2026

Field Observations

Drainage Area Description
Interstate

Condition
Good

Maintenance
N/A

Material

Shape
Circular

Submerged
In Water

Diameter/Dimensions (in.)
30

Material

Width

Depth

Flow Present
No

Page 2

Nature of Discharge

Other

Flow Description

Photos

