CBSWC

columbia basin sustainable water coalition

Regional Water Planning

Franklin, Lincoln, Adams & Grant Counties

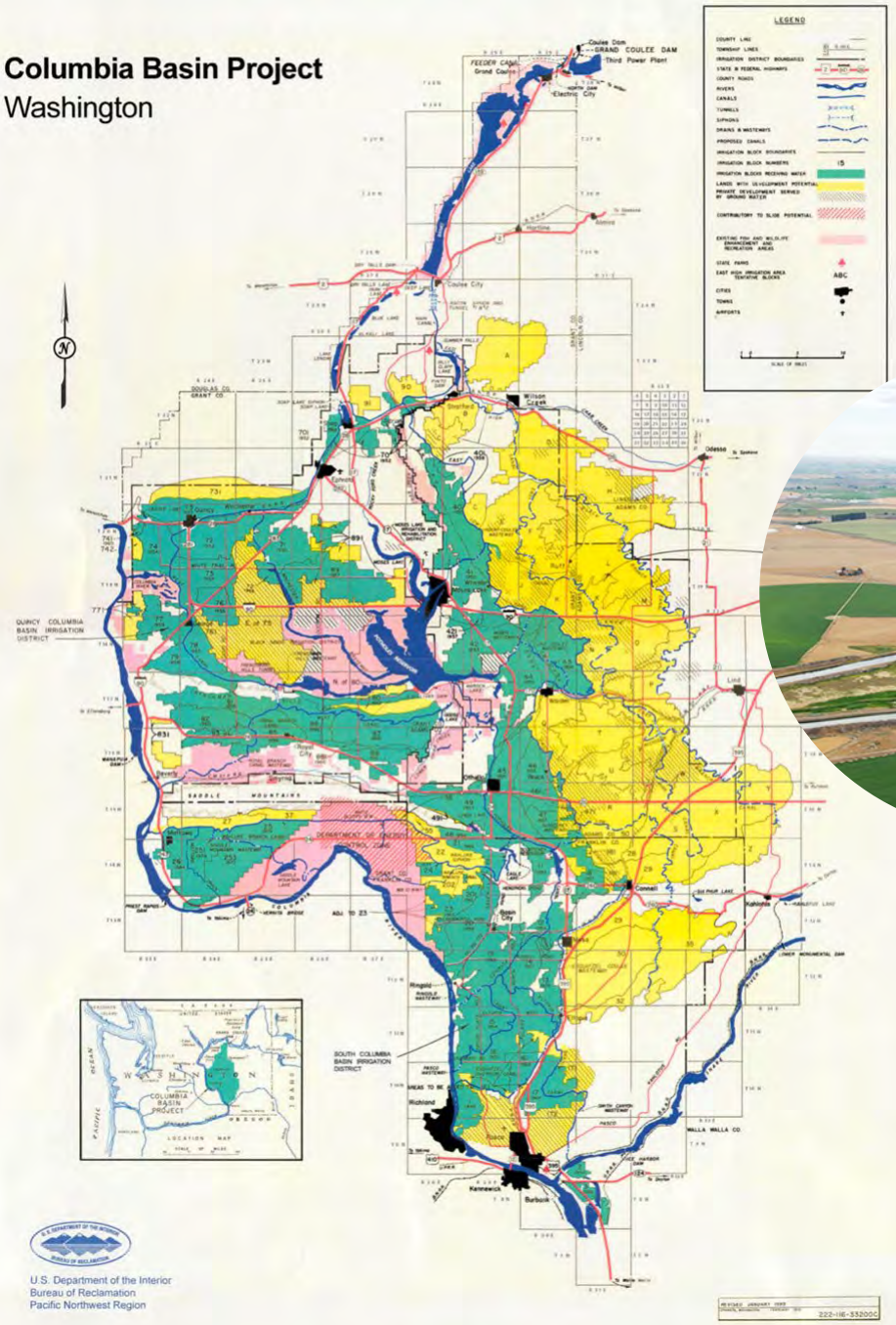
Kristina Ribellia

Executive Director, Columbia Basin Conservation District

Board Member, Columbia Basin Sustainable Water Coalition

May 15, 2024 | 1st Annual Water Law in Eastern Washington Conference

RECLAMATION
Managing Water in the West



Background

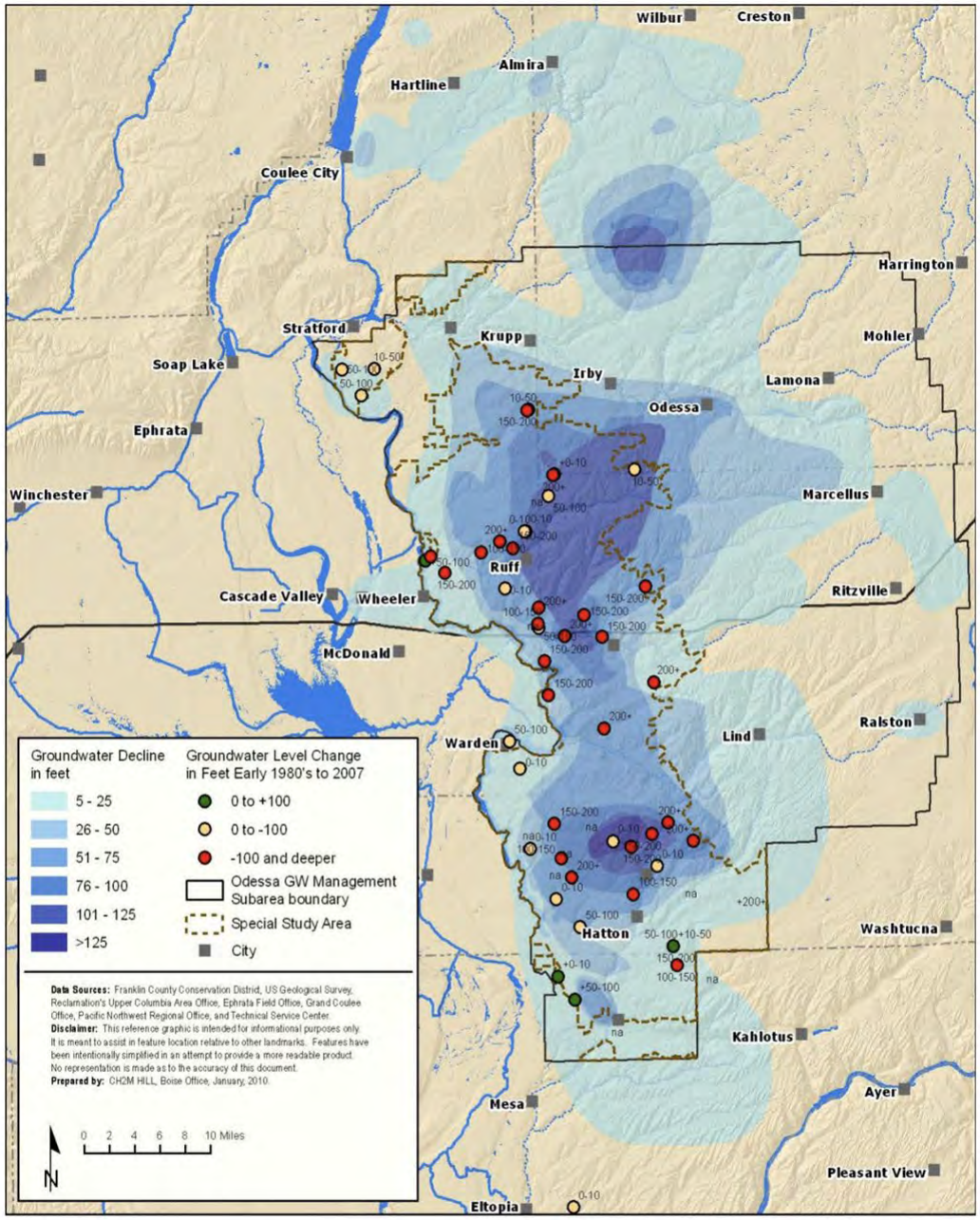
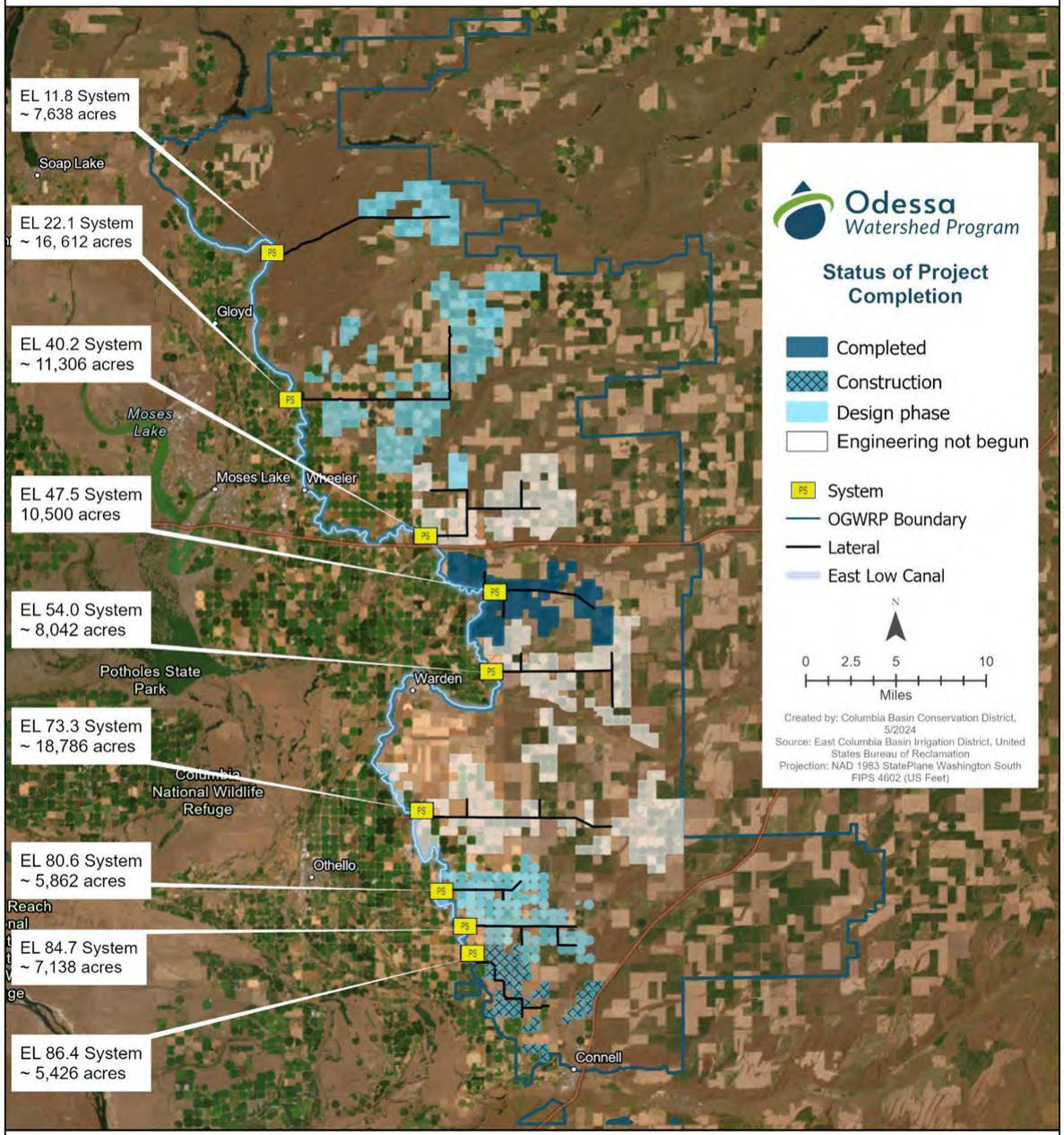


Figure 3. Groundwater level decline in aquifers of the Odessa Subarea, 1981 to 2007.

The Challenge

Odessa Groundwater Replacement Program (OGWRP)



ColumbiaBasin CONSERVATION DISTRICT

Earthstar Geographics, WA State Parks GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USFWS, The information on this map is meant for planning level purposes only.

Part of the Solution

In the Meantime

- Some municipalities:
  - Drilling new and deeper wells
  - Looking to shallow groundwater
  - Considering aquifer storage and recovery (ASR)
- Many don’t have alternative water supplies or financial resources to adapt

Post-GWMA initiative began in 2016

- WSDOH began Mid-Columbia Basin Data Collection and Technical Assistance Project (Health, Evergreen Rural Water)

Forming & Funding the CBSWC

2017-2022

Interagency agreement between WSDOH and Commerce (Small Communities Initiative) to provide facilitation and begin coalition building

2022-2023

WaterSmart funding through USBR for organizational development and watershed planning

2023-Present

Admin support from Commerce and Conservation Districts

- Columbia Basin CD
- Lincoln County CD
- Franklin CD

In-kind from CBSWC Members

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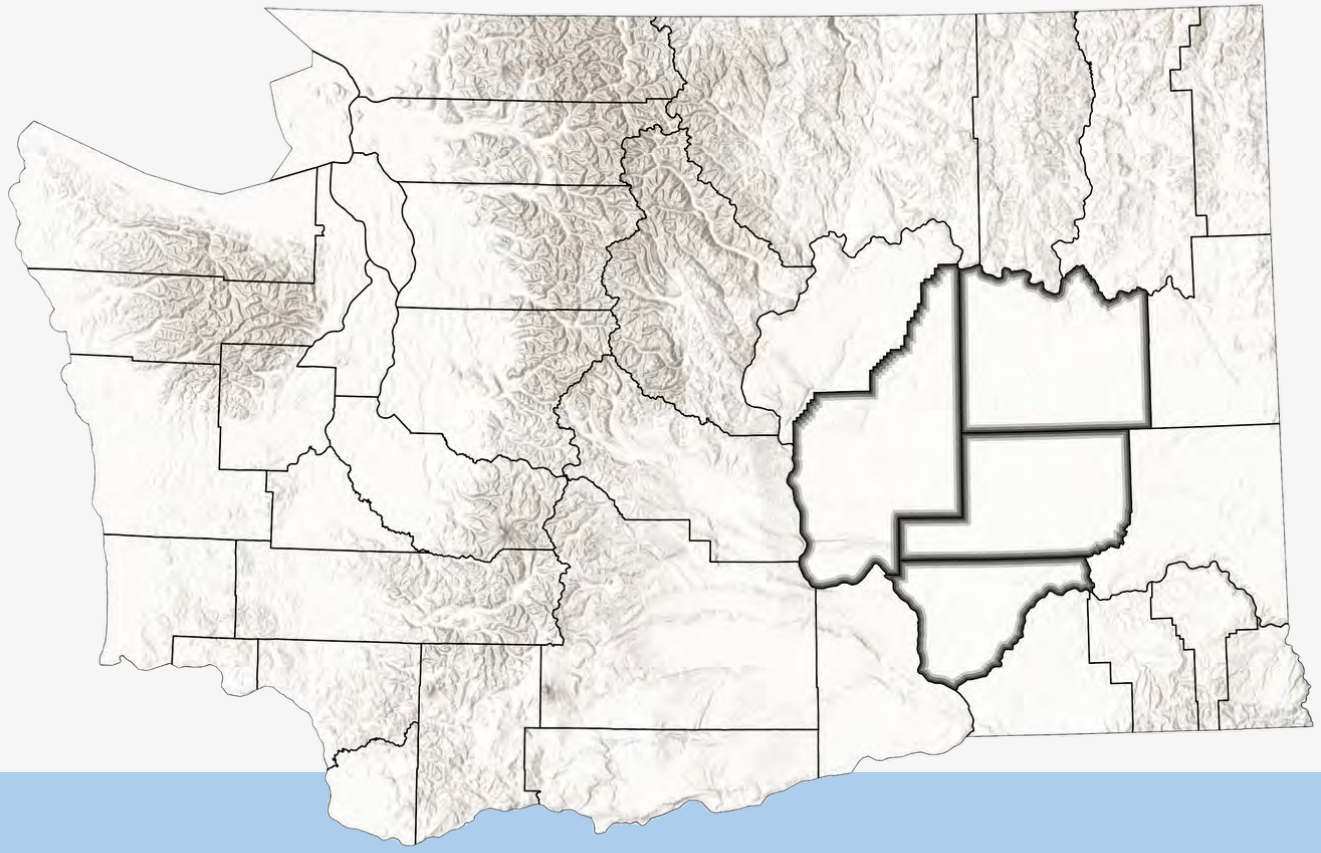

Mission

Address potable groundwater supply issues by creating locally driven recommendations that influence water management and policy that will direct resources to create sustainable water solutions.

Developed CBSWC Bylaws

BYLAWS
OF
COLUMBIA BASIN SUSTAINABLE WATER COALITION

ARTICLE 1. ORGANIZATION

1.1 Name
The Name of this organization shall be the Columbia Basin Sustainable Water Coalition.

1.2 Structure
The organization shall be an informal nonprofit coalition.

ARTICLE 2. PURPOSE

The purpose of the organization shall be to develop locally and regionally implementable activities to address potable groundwater supply issues for Group A and B water systems in Franklin, Lincoln, Adams, and Grant counties in Washington State. Any system with more than 14 connections or that serves 25 or more individuals for 60 or more days per year is a Group A system. Group B systems serve fewer than 15 connections and fewer than 25 people per day.

ARTICLE 3. OFFICES

The principal office of the organization shall be located at its principal place of business or such other place as the Board of Directors ("Board") may designate. The organization may have such other offices within the State of Washington, as the Board may designate or as the business of the organization may require from time to time.

ARTICLE 4. MEMBERSHIP

4.1 Qualifications for Membership.
The membership of the organization shall be comprised of members as outlined below. An "entity" is defined as a legal for-profit company, nonprofit, local government, or local quasi-government agency.

4.2 Categories of Members
The organization shall initially have two categories of members: members and associate members. Additional categories of members, the manner of determining each category of members, and the qualifications and rights of each category of members may be established by amendment to these Bylaws.

Formed CBSWC's Board *& Held Elections*

- **Elsa Bowen, Chair**
  Lincoln County Conservation District
- **Shawn O'Brien, Vice Chair**
  City of Ephrata
- **Kristina Ribellia, Secretary**
  Columbia Basin Conservation District
- **Judi Ellis, Treasurer**
  Group A & B Satellite Mgt. Agency
- **Paul Wollman**
  Warden Hutterian Brethren
- **Commissioner Rob Jones**
  Grant County
- **Commissioner Clint Didier**
  Franklin County
- **Commissioner Jo Gilchrist**
  Lincoln County
- **Michele Kiesz,** *Farmer*
- **Richard Law,** *City of Moses Lake*
- **Bob Davis,** City of Quincy
- **Kristine Shuler,** *City of Warden*
- **Cameron Williamson,** *City of Othello*

Conducting Outreach

Stakeholder Meetings

Bi-Monthly

PAST MEETING TOPICS

- Centralized Treatment & Regional Distribution
- Integrated Planning
- PFAS/PFOAS
- USBR M&I Water
- Aquifer Management
- Reclaimed/Reused Water
- Purveyor Roundtable

UPCOMING TOPICS

- May 16th - OGWRP Update
- July 18th - Reclaimed/Reused Water
- Sept. 19th - CRI Update (Tentative)
- TBD - Elected Officials Forum

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PRELIMINARY WATERSHED MANAGEMENT PLAN

Mid-Columbia Basin, Washington

December 21, 2023

Prepared for

Columbia Basin Sustainable Water Coalition
Mid-Columbia Basin, Washington

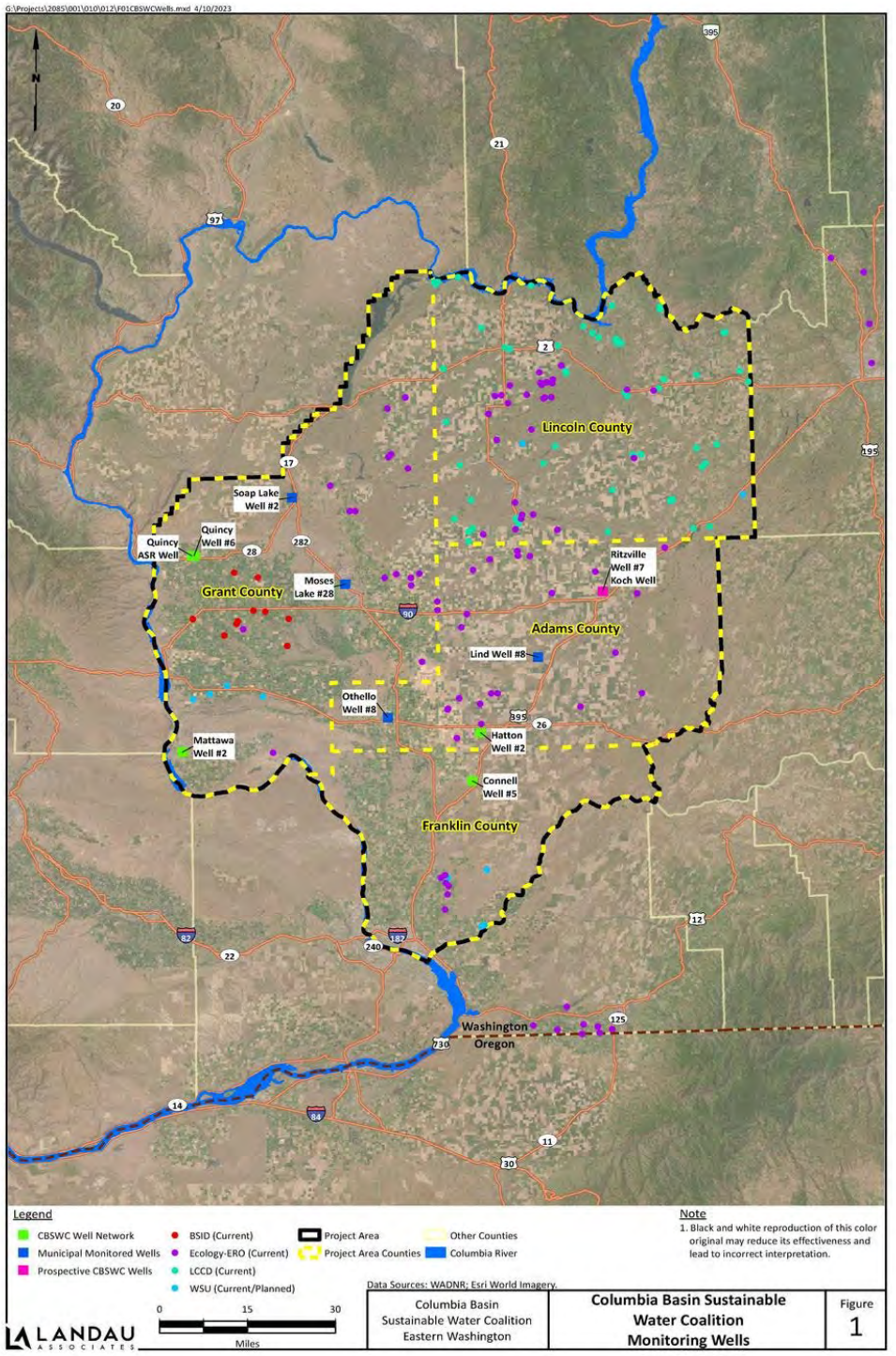
LANDAU ASSOCIATES

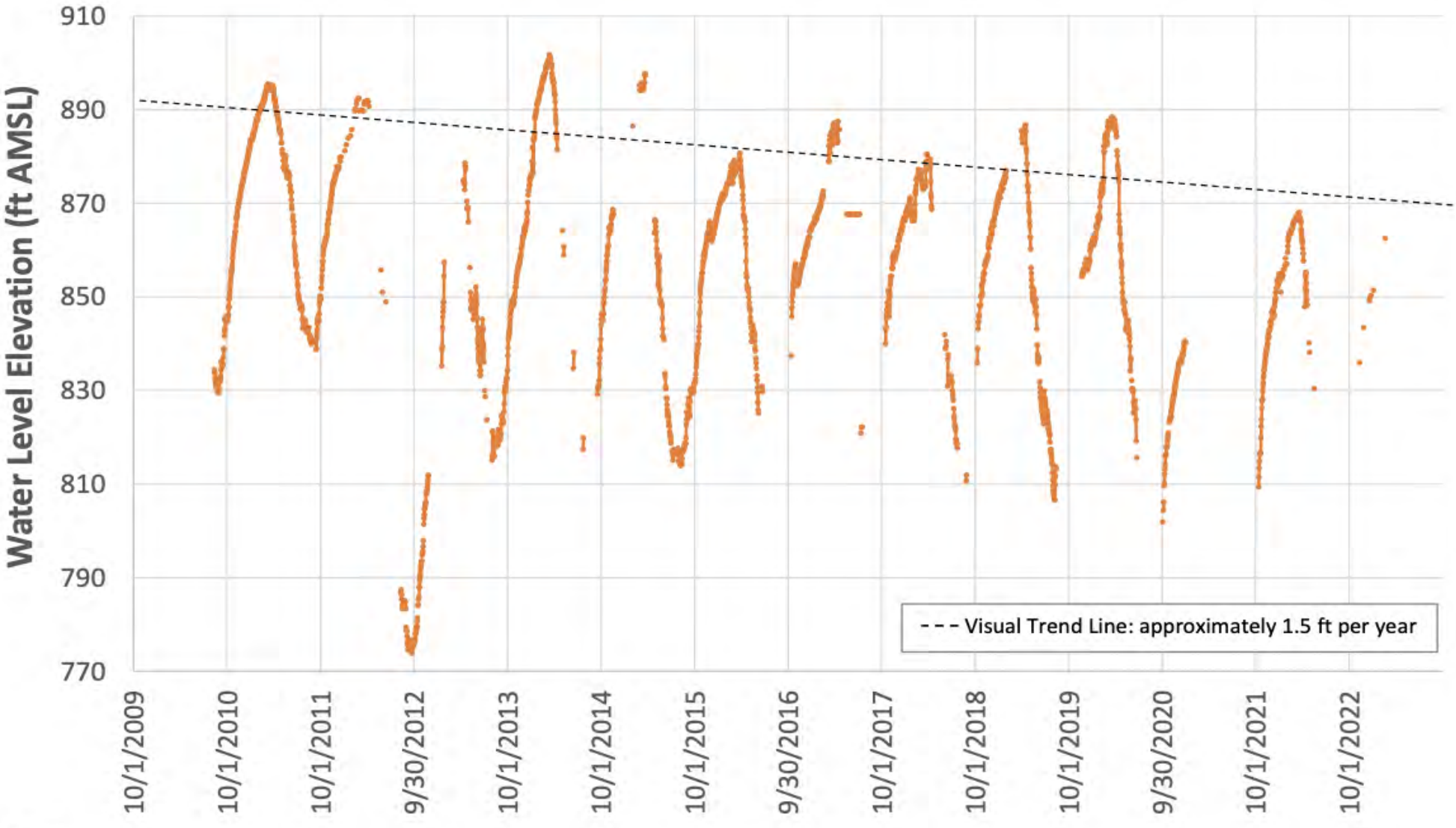
GeoEngineers

The preliminary watershed management plan provides:

- Initial assessment of the groundwater supply challenges faced by CBSWC municipalities and other water purveyor members
- Recommendations regarding water resource management projects, tools, and planning alternatives

Well Monitoring Network





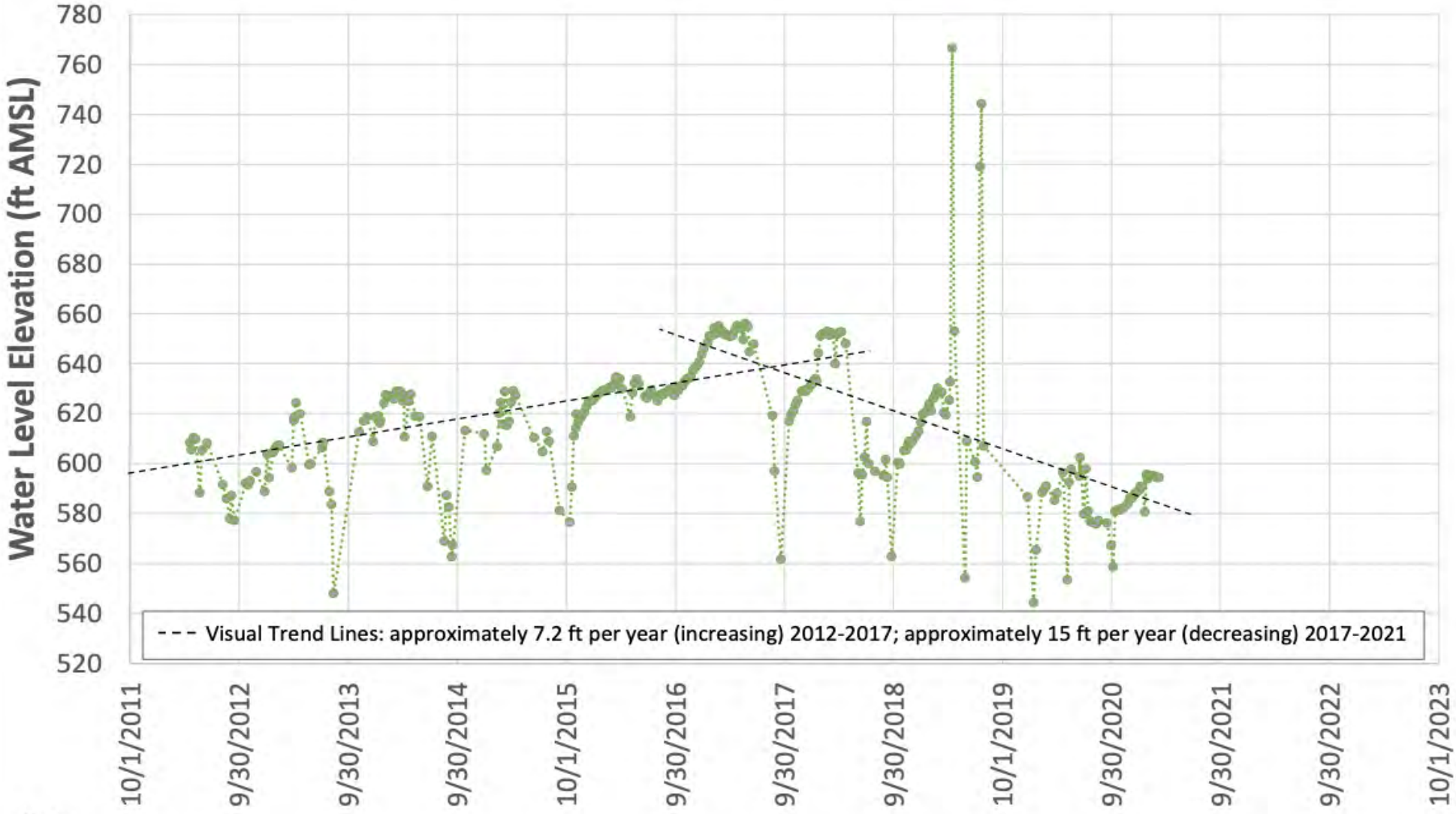
Notes

1) This plot includes water level elevation data recorded only while the pump was off and is therefore representative of background aquifer water levels.

2) A visual trend line was used to assess the approximate trend in off-season (i.e., winter, non-irrigation pumping season) peak water levels over time.

LANDAU ASSOCIATES	Columbia Basin Sustainable Water Coalition Mid-Columbia Basin, Washington	**City of Moses Lake Well #28 Hydrograph**

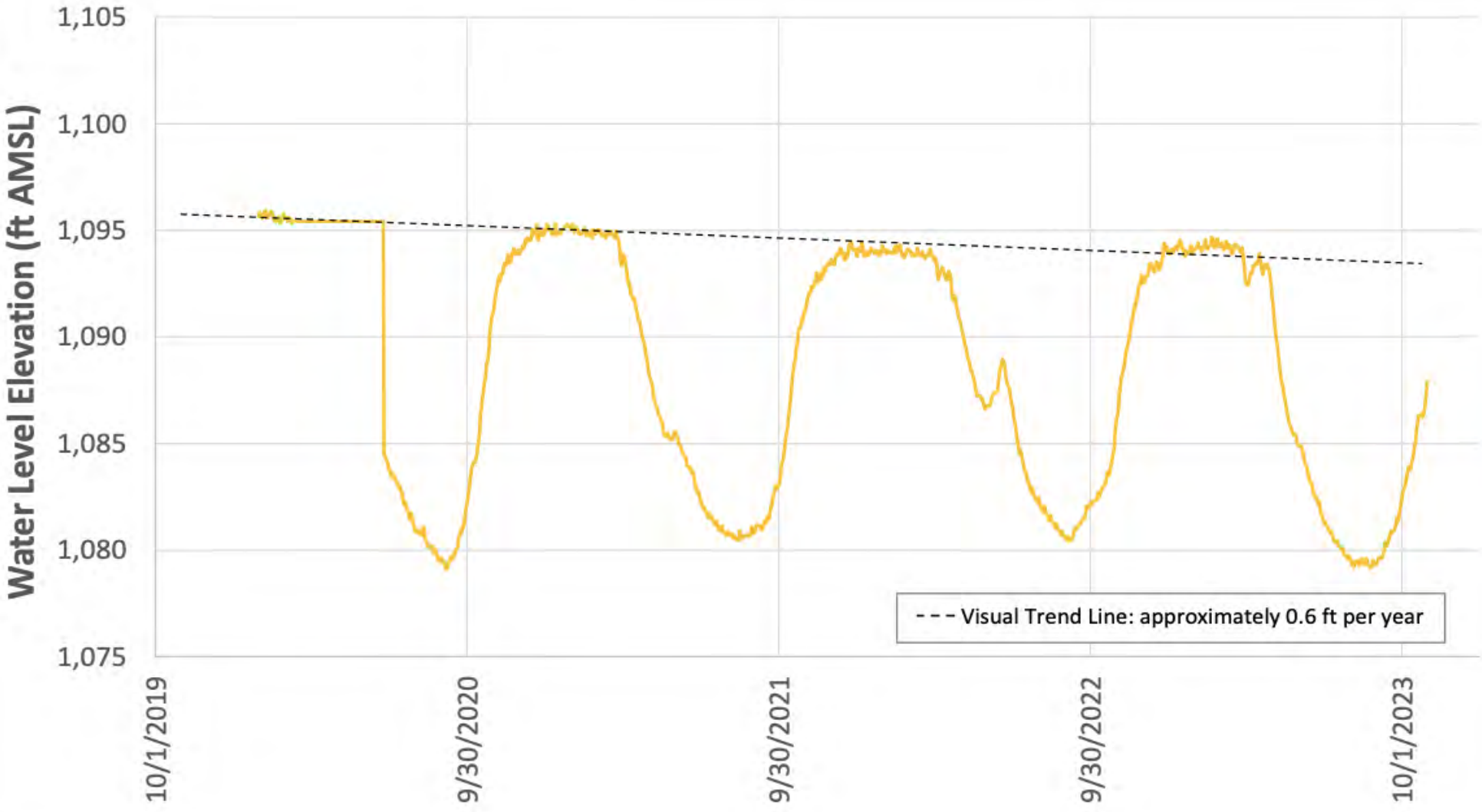
Figure 5



Notes

1) This plot includes water level elevation data recorded only while the pump was off and is therefore representative of background aquifer water levels.
2) A visual trend line was used to assess the approximate trend in off-season (i.e., winter, non-irrigation pumping season) peak water levels over time.

LANDAU ASSOCIATES	Columbia Basin Sustainable Water Coalition Mid-Columbia Basin, Washington	**City of Othello Well #8 Hydrograph**	Figure 6



Notes

1) This well is not fitted with a pump; therefore, the water level elevation data recorded is representative of background aquifer water levels.

2) A visual trend line was used to assess the approximate trend in off-season (i.e., winter, non-irrigation pumping season) peak water levels over time.

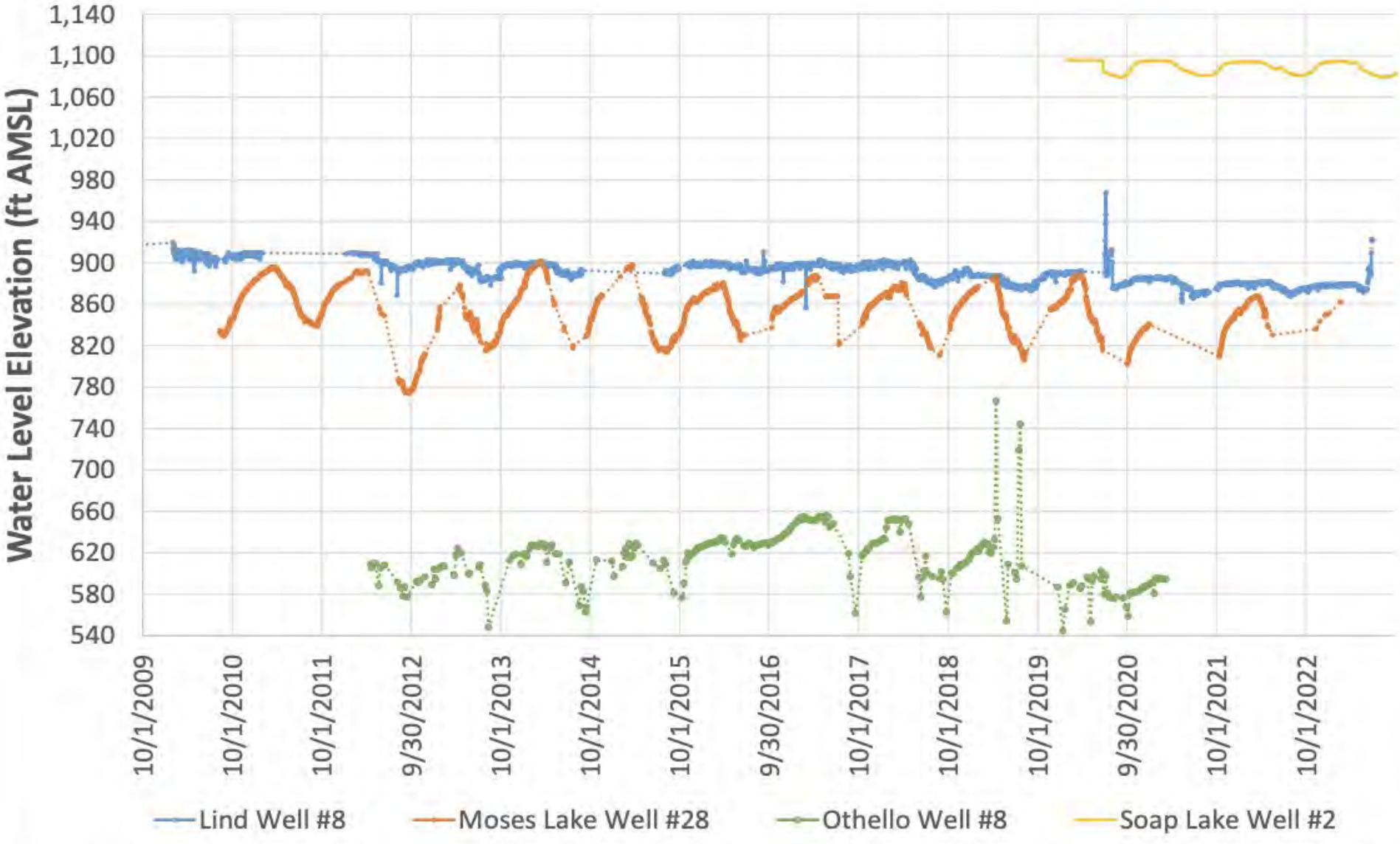
LANDAU ASSOCIATES	Columbia Basin Sustainable Water Coalition Mid-Columbia Basin, Washington	**Soap Lake Well #2 Hydrograph**	Figure **8**

Notes

1) This plot includes water level elevation data recorded only while the pump was off and is therefore representative of background aquifer water levels.
2) A visual trend line was used to assess the approximate trend in off-season (i.e., winter, non-irrigation pumping season) peak water levels over time.

LANDAU ASSOCIATES

Columbia Basin Sustainable Water Coalition Mid-Columbia Basin, Washington	**Town of Lind Well #8 Hydrograph**	Figure **7**



Note: Graph excludes water level elevations recorded while respective pumps are on (Lind Well #8, Moses Lake Well #28, and Othello Well #8. The Soap Lake Well #2 does not have a pump installed).

LANDAU ASSOCIATES	Columbia Basin Sustainable Water Coalition Mid-Columbia Basin, Washington	**Combined Hydrographs**	Figure 9

Long-term declining trends of 1-5 ft per year in the deep aquifer

(in some cases more)

Evaluated Alternatives

Developed and utilized a scoring criteria and ranking

Preferred Project Alternatives

1. Odessa Groundwater Replacement Program
2. New Source Treatment and Regional Distribution
3. Water Conservation
4. CBP Completion
5. Aquifer Recharge by Deep Well Injection
6. Aquifer Recharge by Passive Rehydration

Preferred Water Resource Management Tool Alternatives

1. Groundwater Level Monitoring
2. Numerical Groundwater Modeling

Preferred Water Resource Planning Alternatives

1. Integrated Planning and Project Implementation
2. Groundwater Management Planning
3. Bureau of Reclamation Basin Study
4. Coordinated Water System Planning

Now it’s time to take action.

Project Advocacy & Implementation

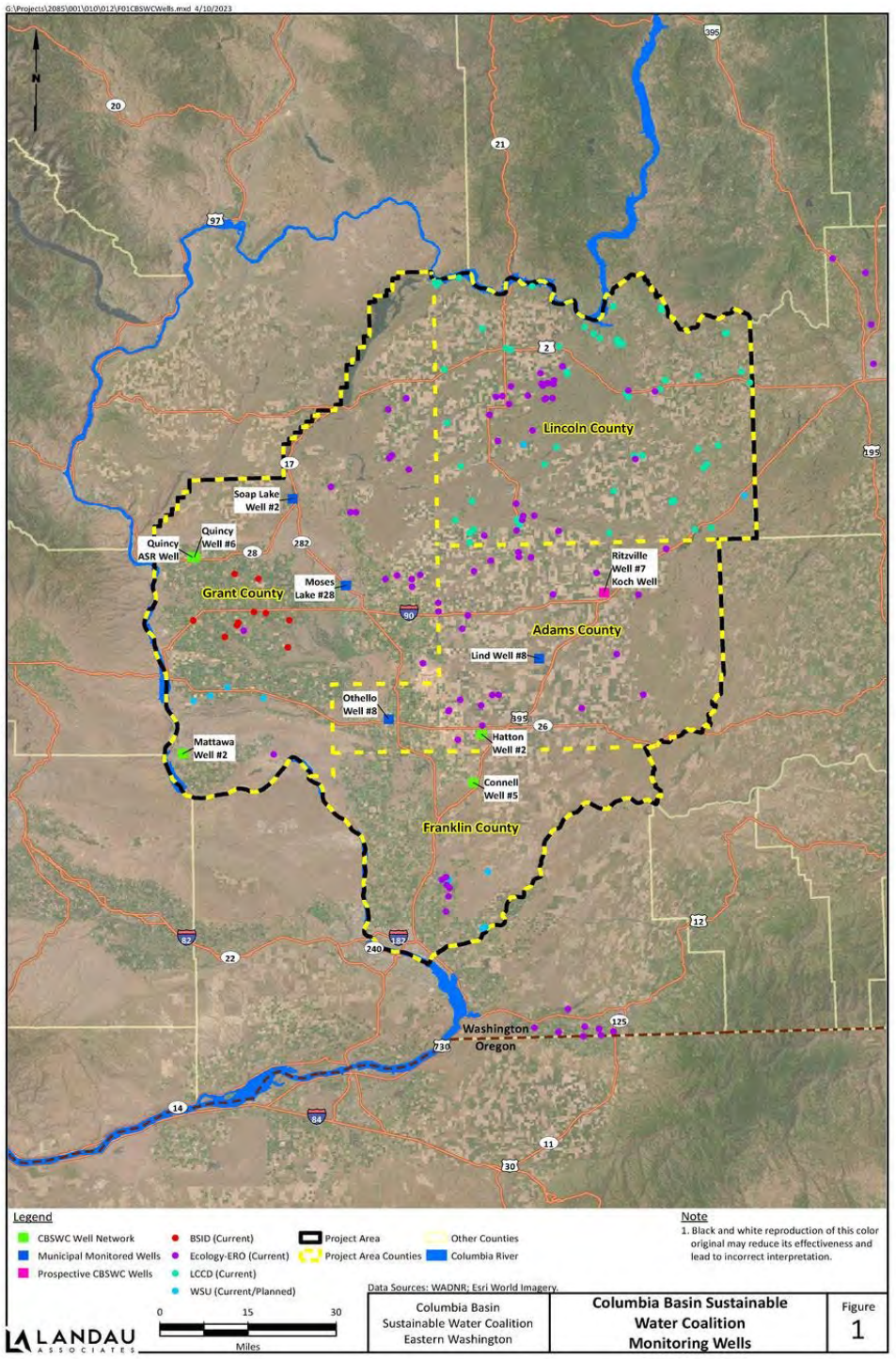
- #1 Priority: Odessa Groundwater Replacement Program
- Support other projects and conservation efforts
- Pursue USBR WaterSmart Phase 2 (project implementation) funding

Meeting with NRCS Chief Cosby and Regional Conservationist Astor Boozer

Washington DC | May 2024

Help Inform Decision Making

- Continue monitoring and collaboration with partners
- Develop the Columbia Basin Groundwater Cooperative Interactive Web Application
  - Include GWMA data from 1998-2014 and new well monitoring data
  - With funding from:
    USBR - $98,324
    OCR - $56,000



Help Improve Water Management & Policy

CBSWC is helping lead an effort to request legislative action to form an Aquifer Storage and Recovery Technical Work Group

- Study current technical and regulatory conditions for ASR in Washington
- Provide recommendations for future legislation to help reduce barriers

City of Othello ASR pilot project (2020)

Pursue Additional Planning Where Needed

- Applied for “Drought Planning and Preparedness” funding through Ecology for FLAG counties plan
- Possibly pursue or support more formal integrated planning effort

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Questions?

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visit us at www.cbswc.org