



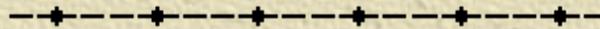
Water Resources of North Ada County

Our Current Understanding



Idaho Department of Water
Resources

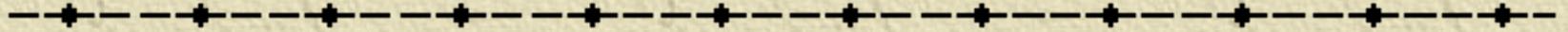
August 21, 2007



Overview of Meeting

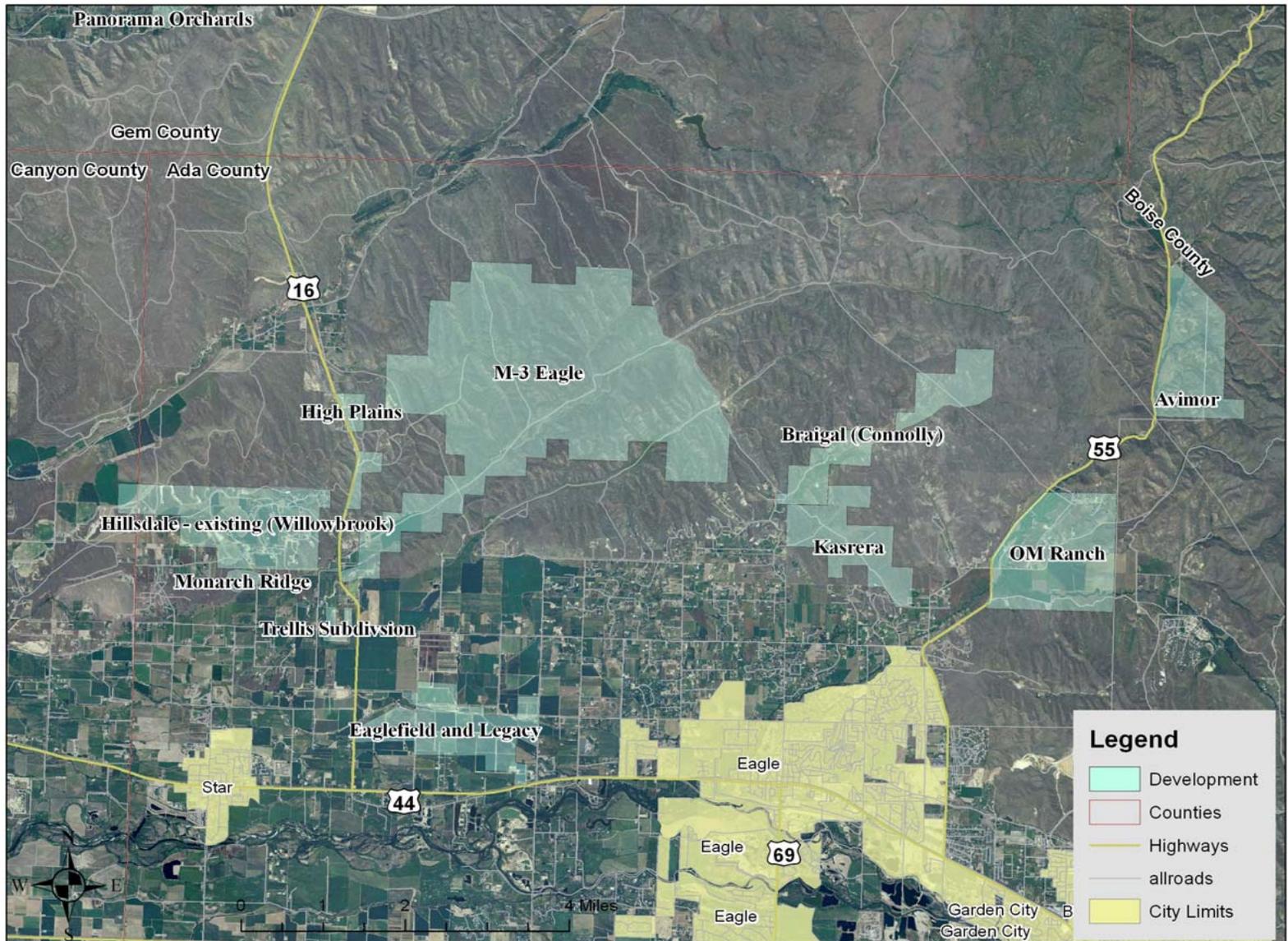
- ✦ Introduction / Background
- ✦ IDWR Policy
- ✦ Hydrogeology of Area
- ✦ Proposed Investigation
- ✦ Q & A

Statement of the Problem



- ✦ North Ada County is undergoing intense land and water resource development
- ✦ Area of concern is at the valley margin, outside the boundaries of Treasure Valley Hydrogeologic Project

Area of Concern



Water Right Applications

Proposed Development	Application/ WR Number	Proposed Diversion Rate	Date Received	Status
Willowbrook	63-31862	3.26 cfs	1-29-04	Active Permit
	63-12125	0.33 cfs	7-26-94	Active Permit
Avimor	63-32061	5.00 cfs	1-25-05	Draft Permit
	63-31966	5.00 cfs	5-21-04	Active Permit
M3	63-32573	42.50 cfs	11-21-06	Active App.
Dry Creek	63-32423	5.00 cfs	8-22-06	Active App.
High Plains Estates	63-31656	3.55 cfs	3-14-03	Active Permit
	63-31770	1.00 cfs	9-10-03	Active Permit
Monarch Ridge	63-31679	3.96 cfs	4-3-03	Active Permit
Trellis Subdivision	63-31511	3.90 cfs	7-21-02	Active Permit
Eaglefield & Legacy Subdivisions	63-32089	4.0 cfs	1-19-05	Draft Permit
	63-32090	4.9 cfs	1-19-05	Draft Permit

❖ Other proposed developments have yet not applied for water rights.

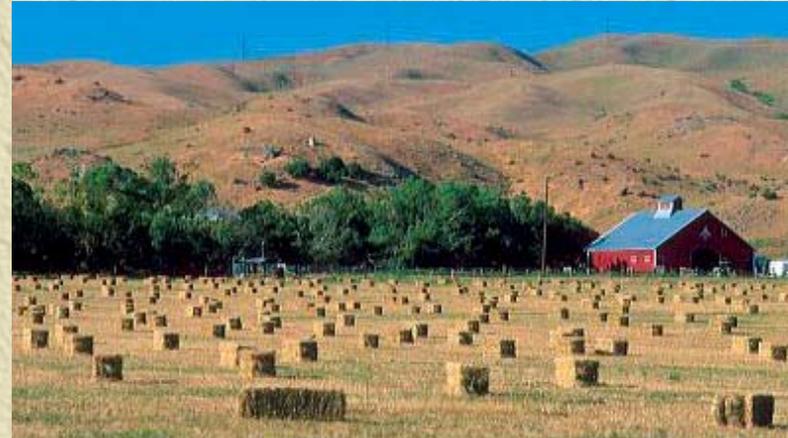
Hydrogeology

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- ✦ Complex hydrogeologic setting
 - ✦ Multiple aquifers
 - ✦ Ground water and surface water divides do not coincide



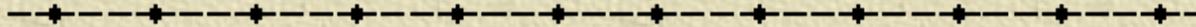
Concerned Entities

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- ✦ NACFA
 - ✦ Dry Creek Rural Neighborhood Association
 - ✦ Protestants
 - ✦ Developers
 - ✦ Local government

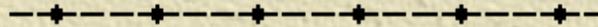




IDWR Policy



Dr. Dave Tuthill
Director, IDWR





North Ada Hydrogeology



Dr. Spencer Wood

Professor, Boise State University

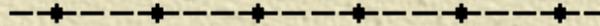




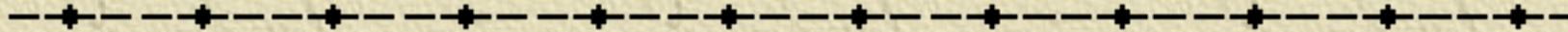
North Ada County Project



Dennis Owsley, IDWR

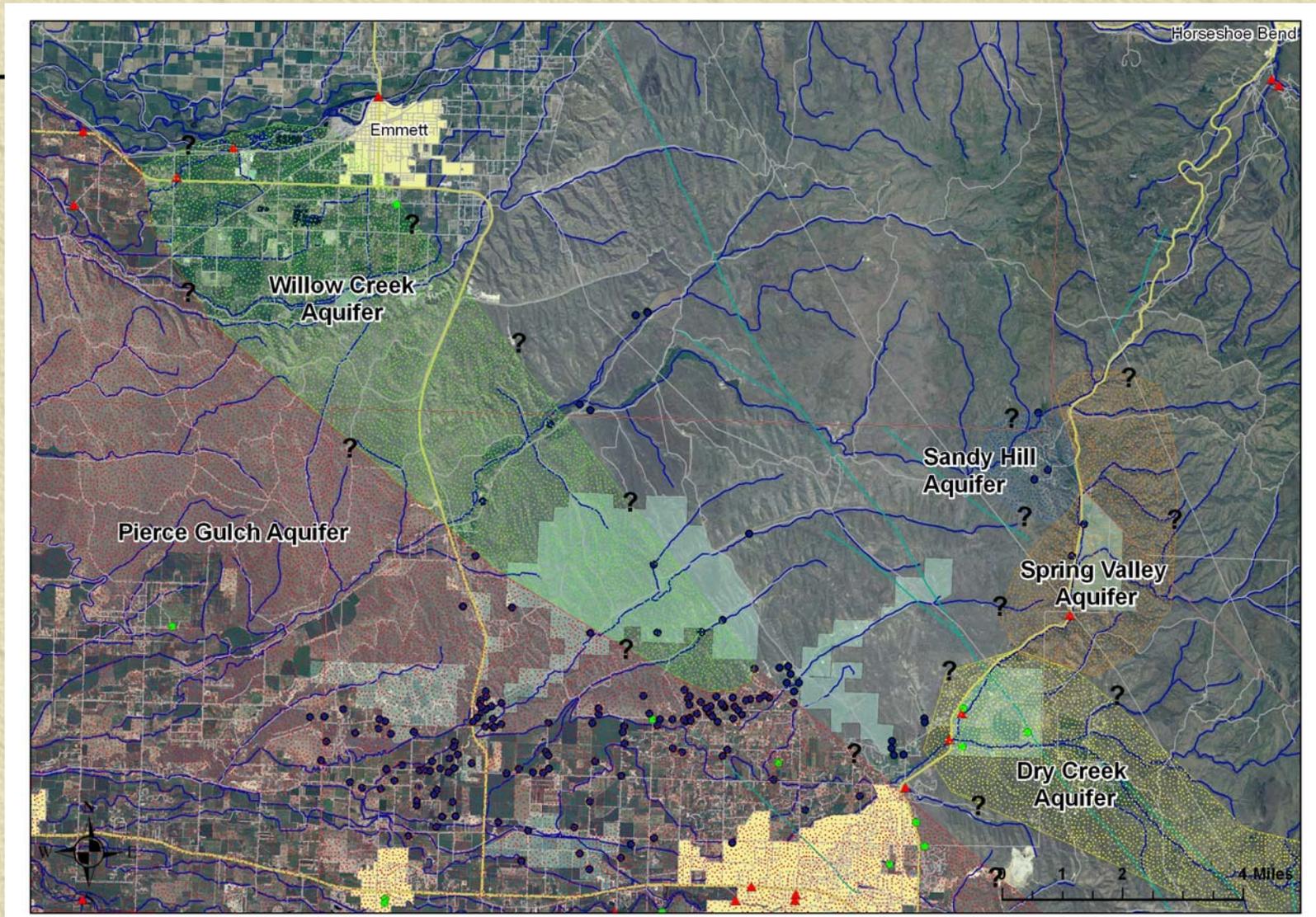


Previous and Ongoing Research

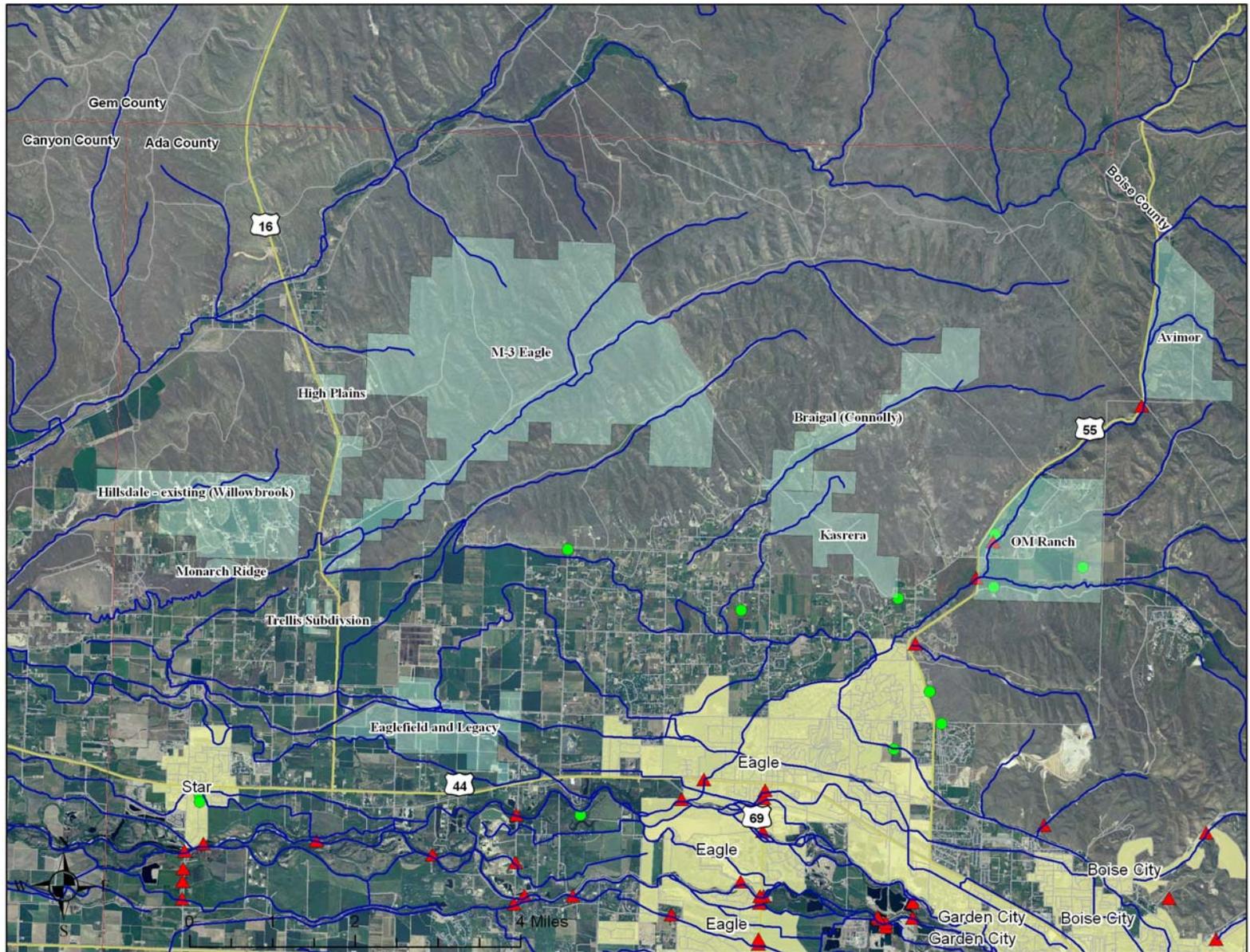


- ✦ TVHP
- ✦ Bureau of Reclamation
- ✦ SPF and Hydro Logic, Inc.
- ✦ University of Idaho and Boise State University
- ✦ USGS/IDWR Monitoring Wells

Hydrogeology



Hydrology



North Ada County Project

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- ✦ Additional research is needed to synthesize the existing data and fully characterize the local hydrogeology.



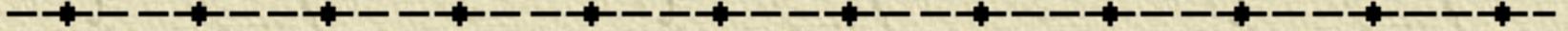
North Ada County Project

✦ In response to written requests from public and private entities, IDWR is developing a comprehensive hydrogeologic investigation to support water management decisions in the area.

- ✦ Draft work plan/cost estimate
- ✦ Not yet funded



Project Scope



- ✦ Development of a water budget across the study area.
- ✦ Scope includes:
 - ◆ Drilling monitoring wells
 - ◆ Geochemical analysis
 - ◆ Large scale, long term pumping tests.
 - ◆ Quantify surface water flows
 - ◆ Expand existing ground water monitoring network.
 - ◆ Geophysics (borehole and surface)

North Ada County Project

- ✦ Establish a Technical Working Group.
 - ◆ Technical representation from concerned groups (IDWR, Developers, Citizen Groups, City/Counties, etc.)
- ✦ The goal of the group is to provide a forum for technical input on the hydrogeologic investigation.

Summary

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- ✦ Significant ground water withdrawals are proposed in the area to accommodate development projects.
 - ✦ The aquifer systems in the area are complex and not fully characterized.
 - ✦ Additional research is needed to better evaluate sustainability of the aquifers and to assess potential impacts from water resource development.
 - ✦ IDWR has developed a draft scope of work and cost estimate for a comprehensive investigation of the hydrogeology of North Ada county.

Contact Information

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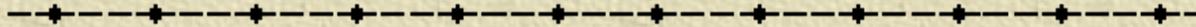
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<http://www.idwr.idaho.gov/hydrologic/project/nac/>



Thank You



Questions????

