

Assured Water Supply Application A

Designated Water Providers

FOR CITY OF BOISE USE ONLY		
City of Boise Planning and Development Services 150 North Capital Blvd. Boise, ID 83702	Date Received:	
Application No.		

Assured Water Supply Application A is intended for a Designated Water Provider (DWP) to demonstrate the requirements to obtain an Assured Water Supply (AWS) Certificate or an AWS Recertification.

Please contact the City of Boise ((208) 608-7100) for additional support with this application including pre-application support and submittal details.



Section A – Designated Water Provider Information

SECTION PURPOSE: Section A includes general information about the DWP and what the DWP is seeking.

1. Designated Water Provider:

DWP Name	
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2. Did the DWP have a pre-application meeting with the City of Boise? If yes, please provide the date of that meeting.

Yes

No

Meeting Date	
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3. Contact Person for Questions Regarding this Application:

Contact Person Name:	
Title:	
Email:	
Phone:	
Office Information	
Mailing Address:	
City:	
Zip Code:	
State:	

4. DWP is seeking:

AWS Certification

AWS Recertification



By signing this document, I certify that:

	The information contained in this application and all accompanying information is true and correct to the best of my knowledge and belief.
	The DWP intends to be bound to the information and representations herein and will require any successor in interest to also be bound.
	I am the sole representative for the DWP or am authorized to sign on behalf of the DWP.

[Light blue rectangular box for Printed Name]

Printed Name

[Light blue rectangular box for Title]

Title

[Light blue rectangular box for Signature]

Signature

[Light blue rectangular box for Date]

Date

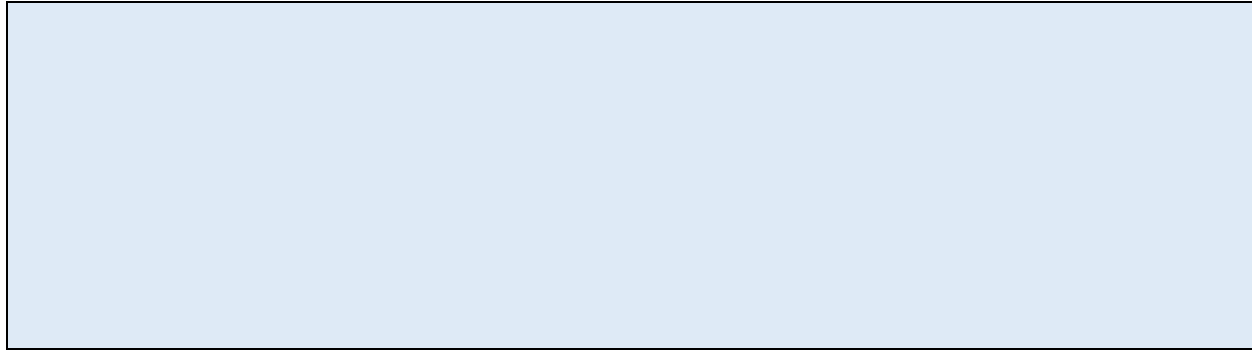
This concludes Section A – Designated Water Provider Information of the Application.



Section B – Service Area Information

SECTION PURPOSE: *Section B includes information about the DWP's Service Area and infrastructure locations within the DWP's Service Area.*

1. Provide a general explanation of the DWP's Service Area that is to be included in the AWS Certification or Recertification.



2. Provide a map clearly outlining the extent of the DWP's Service Area, including Boise city limits and impact areas. If this is an AWS Recertification including changes to the DWP's Certificated Area, clearly outline the changes on the map. Provide map as "**Exhibit B-1.**"
3. Provide a map or series of maps including the following information, as applicable. Provide as "**Exhibit B-2.**"
 - **Water Sources:** Identify the water supplies used by the DWP to serve the Service Area. This may include water rights owned by the DWP and water rights rented within the previous five (5) years.
 - **Water Supply Infrastructure:** Identify all utility owned or operated raw water supply infrastructure including wells, diversions, intakes, pumping stations, and raw water supply pipelines.
 - **Water Treatment Plants:** Display the locations of water treatment plants where raw water is treated before distribution.
 - **Water Distribution System:** Display the infrastructure of the water distribution system, including pipelines, water mains, pumping stations, and water storage facilities.
 - **Irrigation Systems:** Identify irrigation system components such as diversions, wells, canals, and ditches.

This concludes Section B – Service Area Information of the Application.



Section C – Demand Information

SECTION PURPOSE: Section C includes information about projected water demands and historical water demands.

1. Provide a completed demand estimate worksheet showing the estimated water demands for the DWP’s Service Area. Provide as “Exhibit C-1.”

2. What is the Current Annual Demand of the Service Area?

The Current Annual Demand is the total water production for the most recently completed calendar year. This includes both potable and non-potable water sources, as well as non-charge water.

Current Annual Demand (acre-feet per year)		Year	
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3. What is the Committed Annual Demand of the Service Area?

The Committed Annual Demand is the maximum estimated annual demand for currently approved and not-yet-completed developments within the Service Area. Committed demand includes water that has been allocated to users via “will serve” letters. The Committed Annual Demand should not be included within the Current Annual Demand value.

Committed Annual Demand (acre-feet per year)	
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4. What is the Projected Annual Demand of the Service Area?

The Projected Annual Demand is the maximum estimated demand for future developments and other increased usage expected to be added during the 10-year term of the designation for AWS. Projected demand estimates should include water that has not been committed or allocated to users. The Projected Annual Demand should not be included within the Current Annual Demand or the Committed Annual Demand.

Projected Annual Demand (acre-feet per year)	
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5. What is the Total Annual Demand of the Service Area?

The Total Annual Demand is the sum of the current, committed, and projected demand during the term of the designation for AWS and should be based on total demand calculated to be required at the end of the 10-year term of the designation for AWS.

Total Annual Demand (acre-feet per year)	
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6. Complete the table below to identify water demand projections for the Service Area included in this application. Year 1 shall be the year of this application.

Year						Full Buildout of Service Area
Year No.	1	5	10	25	50	
Projected Population Served						
Total Annual Demand Estimate <i>Represented in acre-feet per year</i>						
Average Daily Demand Estimate <i>Represented in acre-feet per day</i>						
Maximum Daily Demand Estimate <i>Represented in acre-feet per day</i>						
Maximum Wintertime Daily Demand Estimate <i>Represented in acre-feet per day</i>						



7. Complete the table below regarding historical water demands. Provide the average and maximum day water demands for the past 10 years.

Year	Average Day Demand		Maximum Day Demand	
	Year	Quantity (acre-feet per day)	Date	Quantity (acre-feet per day)
1 Year Ago				
2 Years Ago				
3 Years Ago				
4 Years Ago				
5 Years Ago				
6 Years Ago				
7 Years Ago				
8 Years Ago				
9 Years Ago				
10 Years Ago				

8. Provide data or a chart displaying the historical (at least 10 years) average and maximum water demands by month, so seasonal trends can be observed. Provide as "**Exhibit C-2**".

This concludes Section C – Demand Information of the Application.



Section D – Physical and Legal Water Availability

SECTION PURPOSE: Section D includes requirements and questions to demonstrate with a reasonable likelihood that the water supply is physically and legally available.

1. Demonstrate sufficient legal water availability by providing the following:
 - A detailed list or spreadsheet of the DWP's water right permit(s) or license(s) issued by the Idaho Department of Water Resources (IDWR) or water right decrees issued by a court of competent jurisdiction. The list should include water right numbers, priority dates, authorized uses, diversion rates, water sources, places of use, and authorized annual diversion volumes as well as annual consumptive use volumes. Provide as "**Exhibit D-1**".

2. Demonstrate sufficient physical water availability by providing the following:
 - A hydrologic analysis demonstrating the physical water supply, under such right(s), when used consistently over time, will be sufficient to meet the forecasted demand at full buildout within the existing Certificated Area. Provide as "**Exhibit D-2**." The hydrologic analysis shall be signed and sealed by a professional geologist or qualified professional engineer licensed in the state of Idaho, and must be clearly written, contain an executive summary and an orderly presentation of data, and utilize currently accepted scientific practices. The hydrologic analysis shall include, at a minimum, the following elements:
 - o Description of the study area corresponding with the Service Area defined in this application;
 - o Description of all supply sources;
 - o Water demand information, including current annual demand, committed demand, projected demand, and total annual demand;
 - o Summary of maximum depth to static water levels after 50 years; and
 - The hydrologic study shall outline the DWP's steps and the data collected to demonstrate groundwater availability. The DWP must demonstrate groundwater is available in the aquifer and have the financial capability to access the groundwater at depth. The hydrologic study should evaluate and demonstrate the physical availability of the groundwater based on depth-to-static water level after 50 years of pumping to meet the projected total demand.
 - o Aquifer characterization and evaluation, including:
 - **Geologic Background** – Describe geologic units in the Service Area with formation/unit names, lithologic descriptions, thickness, and whether unit is water-bearing. The description must also identify the

depth to bedrock in the Service Area and how groundwater supplies are affected by depths found in the Service Area. Include a map showing bedrock depths below land surface with a 100' contour interval or less.

- **Geologic Structure** – Describe major and minor structural features like faulting and fractured groundwater flow.
- **Geophysical Information** – Present all geophysical logs with data and location points and additional geophysical studies relevant to water supply, like gravity and resistivity.
- **Geologic Maps and Cross-Sections** – Include a geologic map showing detailed surface geology with any structural features, appropriate geologic cross-sections, water-bearing units, bedrock units, volcanic, fine-grained units, low permeability units, faults, wells listing total depths, water levels, perched groundwater zones, and the location of the Service Area.
- **Aquifer Description** – Provide a detailed description of water-bearing units, thickness, confined/unconfined conditions, lateral extent, lithologic characteristics, and range of saturated thickness. The range of variability of the water producing aquifers in the Service Area.
- **Description of Well(s) to be used** – Demonstrate the wells have sufficient capacity and/or will be constructed in a timely manner to serve the proposed uses for 50-years. Provide the details of existing and future wells, including cadastral location, estimated saturated thickness and depth to bedrock in each well, number of wells needed to meet demand, well construction, specific capacity for wells, and existing well conditions.
- **Aquifer Tests** – Conduct aquifer test for the proposed volume of groundwater withdrawal. Aquifer tests incorporating observation wells are the preferred testing methodology.
- **Groundwater Levels** – Present current measurements for static water levels across the Service Area. Measurements shall be in tabular format with both elevation above mean sea level and depth to static water levels below land surface.
- **Changes in Water Levels** – Describe any water level decline rates and include hydrographs with trend analysis for both long-term period of record (50-years) and a short-term period of record (10-years). Include an estimate of the decline rate based on the decline rate data.
- **Aquifer Recharge/Discharge** – Describe the natural recharge and discharge of the aquifer. Include a map illustrating recharge,

underflow, and discharge areas, and incorporate a conceptual water budget for the services area.

3. Does the DWP have the legal right to divert and use water to serve the DWP's Service Area?

- Yes
- No

Please explain.

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4. Does the DWP rent water rights to supply the DWP's Service Area?

- Yes
- No

Please explain.

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5. What is the total appropriated volume of the DWP's existing water rights portfolio?

Total Appropriated Volume (Acre-Feet)	
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6. Based on the DWP's existing water rights, what is the estimated population that can be served within the Service Area:

Estimated Population Served	
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7. Will new water rights (permits and/or licenses) be required to supply the Service Area?
- Yes
 - No

Please explain.

8. Does the DWP have proof of raw water storage contracts? If yes, please explain and include as **“Exhibit D-3.”**
- Yes (please explain)
 - No

9. Does the DWP have any long-term purchase, exchange, or option agreements related to water supply? If yes, please explain and include as **“Exhibit D-4.”**
- Yes (please explain)
 - No

This concludes Section D – Physical and Legal Water Availability of the Application.



Section E – Continuous Water Availability

SECTION PURPOSE: Section E includes requirements and questions to demonstrate with reasonable likelihood that the water supply will be continuously available for 50 years.

1. Please check all administrative/legal authorizations available to the DWP as a source of water supply used to meet the existing demands in the DWP's system:

- Groundwater Rights
- Surface Water Rights (Boise River)
- Surface Water Rights (other than Boise River)
- Reservoir Storage Contract Entitlements
- Idaho Water Supply Bank Water Right Rentals
- Irrigation District Entitlements
- Canal Company Shares
- Recycled Water Allocations
- Other (Please explain)

2. If the DWP checked surface water rights above, does the DWP measure and/or monitor streamflow characteristics? Please explain.

- Yes
- No
- Not Applicable

3. If the DWP checked surface water rights above, does the DWP lease surface water from or provide water to other entities? If yes, please explain.

- Yes
- No
- Not Applicable



4. If the DWP checked surface water rights above, does the DWP have any seasonal withdrawal constraints (e.g. can only withdraw water during certain months or under certain streamflow conditions)? If yes, please explain.
- Yes
 - No
 - Not Applicable

5. If the DWP checked groundwater rights above, does the DWP measure levels in groundwater wells?
- Yes
 - No
 - Not Applicable

6. For each well, provide the IDWR well tag number or well ID number and affirm that well log (water level measurements) for the most recent 25-year period of record are attached as **"Exhibit E-1"**. Provide additional sheets as necessary.

IDWR Well Permit No.	Water Level Well Logs Attached	If No, Explain why this data is not provided
	Yes No	
	Yes No	
	Yes No	
	Yes No	
	Yes No	
	Yes No	
	Yes No	
	Yes No	
	Yes No	
	Yes No	



7. Did the DWP sell water to another water system (public or private) during the past 10 years? If yes, please explain.
- Yes (please explain)
 - No

8. Did the DWP purchase or lease water from another water system (public or private) during the past 10 years? If yes, please explain.
- Yes (please explain)
 - No

9. Does the DWP have plans, programs, and/or policies regarding drought management, water demand management, water conservation, and integrated water resources management? If yes, include as "**Exhibit E-2**". If DWP checked 'yes', please provide an explanation on the plans, programs, and/or policies that are established. If DWP checked 'no', please provide an explanation of why the aforementioned plans, programs, and/or policies are not established.
- Yes
 - No

Please explain.

This concludes Section E – Continuous Water Availability of the Application.



Section F – Adequate Delivery and Quality

SECTION PURPOSE: *Section F includes requirements and questions to demonstrate with reasonable likelihood that the water provided by the DWP is of sufficient quality and adequately delivered for the proposed use(s).*

- 1. DWP shall provide copies of the following documents:
 - Most recently updated facilities plan(s) for water supply, treatment, storage, and distribution systems. Provide as **"Exhibit F-1"**.
 - Annual consumer confidence reports for the previous 10 years. Provide as **"Exhibit F-2"**.

- 2. Does the DWP operate water treatment facilities? If yes, please identify and describe.
 - Yes
 - No

- 3. What is the current and projected 10-year water treatment capacity of the DWP's treatment facilities?

Current Treatment Capacity (acre-feet per year)		Future 10-Year Estimated Treatment Capacity (acre-feet per year)	
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- 4. Does the DWP operate finished water storage facilities? If yes, please identify and describe.
 - Yes
 - No



5. What is the current and projected 10-year storage capacity of the DWP's storage facilities?

Current Storage Capacity (acre-feet per year)		Future 10-Year Estimated Storage Capacity (acre-feet per year)	
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6. Does the DWP conduct or utilize hydraulic modeling to help determine infrastructure sizes and anticipated system operating conditions?

- Yes
- No

Please explain.

7. Does the DWP have an infrastructure asset management plan, or similar document such as an asset inventory, and inspection and replacement schedule? If yes, provide as "**Exhibit F-3**".

- Yes
- No

8. What is the anticipated average and low distribution system operating pressure within the Service Area?

Average Distribution System Operating Pressure within the Service Area (psi)	
Low Distribution System Operating Pressure within the Service Area (psi)	

9. What is the average water age (in days) within the Service Area?

Average water age within the Service Area	
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10. Does the DWP provide adequate fire flow?

- Yes
- No

Please explain.

11. In the previous 10 years, were there any instances where the DWP could not meet water demands? If yes, please explain.

- Yes
- No

This concludes Section F – Adequate Delivery and Quality of the Application.



Section G – Compliance with GMD, CGA, GMA, and ARD Standards

SECTION PURPOSE: Section G includes requirements and questions to demonstrate with reasonable likelihood that the proposed water use complies with Groundwater Management District (GMD), Critical Groundwater Area (CGA), Groundwater Management Area (GMA), and Aquifer Recharge District (ARD) standards.

If all or part of the Service Area is located in a GMD, CGA, GMA, or ARD, the AWS Certification will be conditioned on meeting applicable state standards and requirements.

1. Is all or part of the Service Area is located within a (check all that apply):
 - Groundwater Management District (GMD)
 - Critical Groundwater Area (CGA)
 - Groundwater Management Area (GMA)
 - Aquifer Recharge District (ARD)
 - Not located in GMD, CGA, GMA, or ARD

Note that the State of Idaho utilizes the following acronyms for GMD, CGA, GMA:

- GMD as Ground Water Management District (GWMD)
- CGA as Critical Ground Water Area (CGWA)
- GMA as Ground Water Management Area (GWMA)

2. If all or part of the Service Area is located within a GMD, CGA, GMA, or ARD, the DWP shall explain in narrative form how the provision of water to portions of the Service Area that are within a GWM, CGA, GMA, or ARD are compliant with all applicable standards and requirements for management of water within the designated area, including but not limited to management plans, policies, mitigation strategies and other water conservation practices. Include attachments as necessary as **“Exhibit G-1”**.

This concludes Section G – Compliance with GMD, CGA, GMA, and ARD Standards of the Application.



Section H – AWS Certificate

Application No.	
AWS Certification No.	

For City of Boise Staff Use Only

- Approved
 Approved with Conditions Below

Pursuant to Code 11-04-010, notice is hereby given that the subsequent application has been reviewed and an AWS Certificate has been approved given the following conditions:

Special Conditions	
1.	EXAMPLE: The following technical requirements pursuant to Code 11-04-010
2.	EXAMPLE: Approval of "New Water Rights" not secured at this time.
3.	

Printed Name

Title

Signature

Date



Section I – Application Checklist

SECTION PURPOSE: *Section I includes a checklist (to be completed by the DWP) to ensure the DWP completed the appropriate sections and attached the required exhibits.*

General Checklist for Submission		
<input type="checkbox"/>	1.	Did the DWP complete all sections of the application form?

Required Exhibits			
<input type="checkbox"/>	B-1	Did the DWP provide a map showing the Service Area extents and/or changes to the Service Area as Exhibit B-1?	Required
<input type="checkbox"/>	B-2	Did the DWP provide a map or map(s) showing locations of water sources, water supply infrastructure, water treatment plants, water distribution system, and irrigation systems as Exhibit B-2?	Required
<input type="checkbox"/>	C-1	Did the DWP provide a demand estimate worksheet as Exhibit C-1?	Required
<input type="checkbox"/>	C-2	Did the DWP provide monthly water demands for the previous 10 years as Exhibit C-2?	Required
<input type="checkbox"/>	D-1	Did the DWP provide a copy of water right permit(s) or license(s) as Exhibit D-1?	Required
<input type="checkbox"/>	D-2	Did the DWP provide a hydrological analysis as Exhibit D-2?	Required
<input type="checkbox"/>	D-3	Does the DWP have proof of water storage contracts? If yes, did the DWP explain and provide as Exhibit D-3?	Required, as applicable
<input type="checkbox"/>	D-4	Does the DWP have any long-term purchase, exchange, or option agreements related to water supply? If yes, did the DWP explain and provide as Exhibit D-4?	Required, as applicable
<input type="checkbox"/>	E-1	Did the DWP include groundwater well information, including registration number, water level measurements, and dates as Exhibit E-1?	Required, as applicable

Required Exhibits			
<input type="checkbox"/>	E-2	Did the DWP include plans, programs, and/or policies regarding drought management, water demand management, water conservation, and integrated water resources management? Provide as Exhibit E-2.	Required, as applicable
<input type="checkbox"/>	F-1	Did the DWP include copies of its most recently facilities plan(s)? Provide as Exhibit F-1.	Required
<input type="checkbox"/>	F-2	Did the DWP include copies of its annual consumer confidence reports for the previous 10 years? Provide as Exhibit F-2.	Required
<input type="checkbox"/>	F-3	Did the DWP include asset management plans and/or asset inventory information as Exhibit F-3?	Required, as applicable
<input type="checkbox"/>	G-1	If the property is located within Groundwater Management District (GMD), Critical Groundwater Area (CGA), Groundwater Management Area (GMA), and Aquifer Recharge District (ARD), the DWP shall explain how applicable standards and requirements are met. Did the DWP include attachments as necessary as Exhibit G-1?	Required, as Applicable

This concludes Section I – Application Checklist of the Application.

