

**GRANT APPLICATION**  
**Multipurpose Water Storage Assessment**  
**Under the Watershed Planning Act**

Please provide two hard copies and one electronic copy of your application. Send to:  
Cathy Hubbard, Department of Ecology, PO BOX 47600, Olympia, WA 98504-7600.

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**NOTE:** *For electronic version press F11 to go to each field*

**Water Resource Inventory Area(s):** *WRIA 54*

**If you are also submitting a water quality grant please tell us which of these two grant applications is a higher priority.**

Water Quality application:                      Multipurpose Water Storage application: **X**

**Have you completed the phase 2 water quantity assessment in RCW 90.82.070?**

*Yes*

**Is this application for:**

*X a detailed assessment of multipurpose water storage opportunities*

**OR**

studies of specific multipurpose storage projects which opportunities or projects are consistent with and support the other elements of the planning unit's watershed plan developed under this chapter;

**CONTACT INFORMATION**

Project Manager:                      *Rob Lindsay/Bill Gilmour*  
Address, City Zip:                      *1026 West Broadway Ave.*  
Telephone:                                *(509) 477-7259/477-7260*  
FAX:                                         *(509) 477-4715*  
Internet/E-Mail Address: *rlindsay@spokanecounty.org/bgilmour@spokanecounty.org*

**BILLING INFORMATION**

Payee Name:                              *Spokane County Utilities*  
Address, City Zip:                      *1026 West Broadway Ave.*  
   *Spokane, WA 99206*

Federal Tax ID #                        *91-6001370*  
Legislative District                      *6<sup>th</sup> & 7<sup>th</sup>*  
Congressional District                    *5<sup>th</sup>*

## Funding Request Summary

Amount Requested From Ecology *\$100,000*  
Total Cost of Project = *\$100,000*

## Application Authorization

Ecology is requested to consider this application for financial assistance for the purpose of meeting the water quality component under RCW 90.82.090. We agree to cooperate with Ecology by providing any additional information needed to determine grant eligibility and to adhere to all applicable state and federal rules governing grant funds. We certify that to the best of our knowledge, the information in this application is true and correct.

Designated Lead Agency: *Spokane County*

Authorized Representative: \_\_\_\_\_ (signature) \_\_\_\_\_ (date)

Print name and title: *Bruce Rawls Utilities Director*

**1) What were the conclusions of the completed phase 2 water quantity assessment in RCW 90.82.070?**

*The Phase 2 water quantity assessment identified that future water demand is predicted to increase by 33% by the year 2025. Most of this increase will occur in the West Plains and Suncrest regions, which are proximal to the City of Spokane, and heavily influenced by suburban development. In addition, the West Plains region is targeted for industrial growth, some of this linked to diverting these land uses away from locations where the Spokane Valley/Rathdrum Prairie Aquifer, a sole source aquifer, is present.*

*In addition, the Chamokane Creek valley (Ford and Camas Valley subbasins) has been identified as a region where competing water needs and use of the water table aquifer may be limiting available water and impacting Chamokane Creek.*

*The Phase 2 water quantity assessment also concluded that several aquifers in WRIA 54 may hold promise for water storage opportunities, and may already be overallocated. Additional study of these aquifers is needed.*

**2) Identify the goals and objectives of the assessment or the specific storage project.**

*Goal 1: Inventory groundwater and surface water storage opportunities for surface water and groundwater in WRIA 54:*

*Objective: Consider groundwater and/or surface water storage options to augment existing water uses,*

*Objective: Consider groundwater and/or surface water storage options to augment instream flows.*

*Goal 2: For each storage option, the following issues are recommended to be researched and summarized:*

*Objective: Water quality of both storage and source water and the storage basin,*

*Objective: Technical and economic feasibility,*

*Objective: Access Agreements with Landowners*

*Objective: Legal and public perception limitations to storage and reuse.*

**3) List any existing water storage studies; summarize the findings from them and how you plan to use them.**

*Golder Assoc. Inc. (2004) Storage Assessment for Little Spokane River and Middle Spokane River (WRIAs 55 & 57).*

*The project was split into two phases, the first being an initial broad assessment of storage options in the WRIAs, and the second being a more focused assessment of three specific options. The first phase included estimating the quantities of instream water that may be needed in the future given increased population and water demand, characterizing the hydrology of the watershed from a*

*perspective of water availability for storage, and identifying a broad range of storage options and concepts that may be considered for inclusion in the watershed plan.*

*The three specific storage options investigated in detail were; aquifer storage and recovery in the Lower Little Spokane River watershed, evaluation of new dam potential on Beaver and Buck Creeks in northwestern WRIA 55, and Saltese Flats restoration and storage potential in WRIA 57.*

*This storage assessment is recent and directly applicable to the WRIA 54 storage assessment goals and objectives. Even though the storage assessment was not within WRIA 54, it is adjacent to WRIA 54, the general list of storage opportunities generated by Golder Associates Inc. should be considered initially as part of the inventory of storage options. Additionally, the storage concepts should be used as a baseline to be expanded upon with more current information.*

**Provide a scope of work for the type of Multipurpose Storage application that you are submitting. (a scope of work for 1 or 2 below)**

**1. Assessment of multi-purpose water storage opportunities**

**Using the technical assessment information on water availability and future water needs from the phase 2 water quantity assessment, develop a scope of work for identifying storage opportunities which:**

- Considers the type of storage projects that would be useful in that watershed, given the current and future water supply and demand.
- Considers and scopes the full range of storage alternatives and identifies potential site locations for: off-channel storage, underground storage, enlargement or enhancement of existing storage and on channel storage. Both large and small scale storage options should be considered.
- Includes an inventory and assessment of the water storage infrastructure needs including public and private water systems. This inventory should ensure that small drinking water systems and fire safety needs are addressed.
- The assessments should consider how to balance the full range of potential uses for stored water (multipurpose).
- Identifies potential environmental effects associated with the different storage alternatives.

*See Attachment A*

**2. Study of specific multi-purpose water storage projects**

**Using the technical assessment information on water availability and future water needs from the phase 2 water quantity assessment develop a scope of work for assessing a specific storage project which addresses the following:**

- How does this specific project(s) fit into the overall watershed plan?
- Explain why this project(s) was selected over other water management strategies and other storage projects.
- Explain how this project(s) is a multipurpose storage project.
- Explain how this project(s) is consistent with and supports the other elements of the watershed plan.
- Explain why the proposed site(s) is suitable for storage.
- Identify potential environmental effects associated with this specific storage project.

**Not Applicable**

## **Attachment A**

### The Lower Spokane River Multi-Purpose Water Storage Assessment

## **Scope of Work**

### **TASK 1.0 - Project Facilitation and Administration**

Subtask 1.1 - Spokane County, as Lead Agency, shall be responsible for developing contract agreements and other documents used to hire outside technical contractors (consultant) to conduct the Multi-Purpose Water Storage Assessment (storage assessment). Note: The technical consultant for the Phase 2, Level 1 Data Assessment for WRIA 54 may perform this assessment.

Subtask 1.2 - Spokane County will prepare quarterly progress reports and Payment Requests for review and approval by Ecology.

Subtask 1.3 - Spokane County will provide regular project updates to the Planning Unit at the monthly WRIA 54 Planning Unit meetings.

**Deliverables:** Quarterly billings; Quarterly reports; project completion report

**Due Date:** Ongoing throughout the project

**Cost:** \$5,500 (note: approximately 85% [\$4,675] will be spent in the 05/07 biennium, the remaining 15% [\$825] will be spent in the 07/09 biennium).

### **TASK 2.0 - Project Scoping and Definition**

Subtask 2.1 – Spokane County will assemble a Multi-Purpose Storage Group (MSG) and facilitate meetings with the MSG as necessary to prepare the specific storage assessment scope of work with the technical consultant. The MSG will be comprised of members of the WRIA 54 Planning Unit, including but not limited to the Spokane Tribe, and Ecology.

Subtask 2.2 – The MSG may review available Phase 2 Level 1 data, projects from WRIs surrounding WRIA 54, and other sources to evaluate data gaps and needs.

Subtask 2.3 – The MSG will determine whether to retain the existing WRIA 54 technical consultant or to instruct the Lead Agency to conduct a consultant selection process to conduct the storage assessment.

Subtask 2.4 – The MSG shall coordinate with the Planning Unit and the technical consultant to determine the approach that would best utilize the limited funding for the storage assessment. Possible approach options include, but are not limited to, (1) conducting a two step process where the technical consultant conducts a general survey of potential projects throughout WRIA 54, and then presents the results to the Planning Unit for selection of a few projects to further evaluate the water storage option technical and economic feasibility, or (2) conduct detailed evaluation(s) of selected project(s) in select geographic area(s).

- a. Subtask 2.5 – The MSG shall coordinate a public meeting (may occur during a regular monthly Planning Unit meeting) to receive comment on the selected approach and collect additional information (i.e., site-specific information, recommendations for project areas, etc.) to aid the technical consultant in developing the detailed scope of work (Subtask 2.6).

Subtask 2.6 – The technical consultant will prepare a scope of work for the Multi-Purpose Water Storage assessment. At a minimum, the scope of work shall:

- Consider the type of storage projects that would be useful in that sub-basin or geographic area, given the current and future water supply and demand for water.
- Consider and scope the full range of storage alternatives and identify potential site locations for: off-channel storage, underground storage, enlargement or enhancement of existing storage and on channel storage. Both large and small scale storage options should be considered.
- Include an inventory and assessment of the water storage infrastructure needs including public and private water systems. This inventory should ensure that small drinking water systems and fire safety needs are addressed.
- The assessments should consider how to balance the full range of potential uses for stored water (multi-purpose).
- Identify potential environmental effects associated with the different storage alternatives.

**Deliverable:** Detailed Scope of Work for WRIA 54 Multi-Purpose Water Storage Assessment

**Due Date:** 1/15/07

**Cost:** \$16,500

### **TASK 3.0 - Conduct the Multi-Purpose Water Storage Assessment**

The Detailed Scope of Work for WRIA 54 Multi-Purpose Water Storage Assessment developed in Task 2 will be implemented in this task. If environmental monitoring will be conducted that requires a Quality Assurance/Project Plan (QAPP), Spokane County or its consultant will complete and obtain approval for the QAPP in accordance with the Special Terms and Conditions (A) (11) before conducting any field work.

**Deliverable:** Ecology approved QAPP (if needed)

**Due Date:** 2/28/07 (if needed)

**Cost:** \$55,500

#### **TASK 4.0 – Prepare Draft Multi-Purpose Water Storage Assessment Report**

This task consists of compiling the data into a draft WRIA 54 Multi-Purpose Storage Assessment Report, compiling comments from the Planning Unit, resource agencies and public through the process described below and producing (10) final paper reports and (30) digital copies on Compact disk.

- a. Spokane County or the project consultant preparing a *Draft WRIA 54 Multi-Purpose Water Storage Assessment Report* for review by the WRIA 54 Planning Unit.  
**Deliverable: Draft WRIA 54 Multi-Purpose Storage Assessment Report by May 31, 2007.**
- b. Spokane County or the project consultant presenting the findings of the *Draft WRIA 54 Multi-Purpose Water Storage Assessment Report* at a public meeting or a WRIA 54 Planning Unit Meeting on or before June 27, 2007.
- c. Spokane County or the project consultant accepting public comment on the *Draft WRIA 54 Multi-Purpose Water Storage Assessment Report* from May 31, 2007 to July 31, 2007.
- d. Spokane County or the project consultant preparing a table that documents the comments received and responses to those comments to facilitate preparing the final draft report and to be included in an appendix of the final report.  
**Deliverable: Comment Response Table submitted to commenters and/or WRIA 54 Planning Unit by August 31, 2007.**
- e. Spokane County or the project consultant preparing a final draft report.  
**Deliverable: Final Draft WRIA 54 Multi-Purpose Storage Assessment Report on or before September 30, 2007.**
- f. Spokane County or its consultant providing the WRIA 54 Planning Unit and public an opportunity to review the final draft report. Spokane County or the project consultant accepting public comment on the *Final Draft WRIA 54 Multi-Purpose Water Storage Assessment Report* from September 30, 2007 to October 31, 2007.
- g. Spokane County or the project consultant producing the final report deliverables (detailed above) that includes an all comments received and responses to each comment as an appendix

**Deliverable: Final Multi-Purpose Water Storage Assessment Report**

**Due Date: December 15, 2007.** Note: Task 4 requires a Draft, Final Draft, and Final Report.

**Cost:** \$22,500 (note: approximately 85% [\$19,125] will be spent in the 05/07 biennium, and the remaining 15% [\$3,375] will be spent in the 07/09 biennium).

## 1.1 ESTIMATED BUDGET BY ELEMENT

	<u>05/07 Biennium</u>	<u>07/09 Biennium</u>
SALARIES/BENEFITS	\$ 5,675	\$ 825
CONTRACTED SERVICES	\$ 89,625	\$ 3,375
TRAVEL	\$ 0	
EQUIPMENT	\$ 0	
GOODS AND SERVICES	\$ 500	
OVERHEAD	<u>\$ 0</u>	<u>\$ 0</u>
Biennium Distribution of Budget	\$95,800	\$ 4,200
TOTAL BUDGET BY ELEMENT	<u>\$100,000</u>	

## 1.2 BUDGET BY TASK

	<u>05/07 Biennium</u>	<u>07/09 Biennium</u>
1. Project Administration and Facilitation	\$ 4,675	\$ 825
2. Project Scoping and Definition	\$16,500	
3. Conduct the Storage Assessment	\$55,500	
4. Prepare Draft Storage Assessment Report	<u>\$19,125</u>	<u>\$ 3,375</u>
Biennium Distribution of Budget	\$95,800	\$ 4,200
TOTAL BUDGET BY TASK	<u>\$100,000</u>	