

Last Updated: July 2017

Colorado Water Conservation Board

Water Plan Grant Application

Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Supply and Demand Gap Projects	Gregory.Johnson@state.co.us
Water Storage Projects	Anna.Mauss@state.co.us
Conservation, Land Use Planning	Kevin.Reidy@state.co.us
Engagement & Innovation Activities	Mara.MacKillop@state.co.us
Agricultural Projects	Brent.Newman@state.co.us
Environmental & Recreation Projects	Linda.Bassi@state.co.us

Applicants interested in submitting an ‘Intent to Apply’ in the future are encouraged to check here ☐ and fill in all sections with the best information available at the time. Exhibits may be excluded.

This “Intent to Apply” will help CWCB prioritize Projects that are not ready for fully completed Water Plan Grant Application due to the initial timeframe and required deadlines.

FINAL SUBMISSION: Submit all application materials to waterplan.grants@state.co.us in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents.

Water Project Summary

Name of Applicant	Arkansas River Watershed Collaborative	
Name of Water Project	Arkansas Basin Project Implementation Guide to Watershed Health	
CWP Grant Request Amount	\$90,903	
Other Funding Sources _____	\$	
Other Funding Sources _____	\$	
Other Funding Sources _____	\$	
Applicant Funding Contribution	\$35,000	
Total Project Cost	\$125,903	

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Applicant & Grantee Information	
Name of Grantee(s)	Arkansas River Watershed Collaborative
Mailing Address	PO BOX 726, Lake George, CO 80827
FEIN	
Organization Contact	Carol Ekarius
Position/Title	General Manager
Email	Carol@co-co.org
Phone	719-748-0033
Grant Management Contact	Coalitions & Collaboratives, Inc.
Position/Title	Carol Ekarius
Email	Carol@co-co.org
Phone	719-748-0033
Name of Applicant (if different than grantee)	--
Mailing Address	--
Position/Title	--
Email	--
Phone	--

Description of Grantee/Applicant
Provide a brief description of the grantee's organization (100 words or less).
<p>Arkansas River Watershed Collaborative (ARWC) is a non-profit organization formed under the Arkansas River Basin Roundtable designated to aid Arkansas Basin (within Colorado) communities to address locally identified watershed issues for economic, ecological, and social benefit. The vision of ARWC is healthy watersheds and economic prosperity. Membership of the organization will mirror that of the Arkansas Basin Roundtable with decisions made for the betterment of the entire basin.</p>

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Type of Eligible Entity (check one)	
<input type="checkbox"/>	Public (Government): Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
<input type="checkbox"/>	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
<input type="checkbox"/>	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.
<input type="checkbox"/>	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.
<input checked="" type="checkbox"/>	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.
<input type="checkbox"/>	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes .

Type of Water Project (check all that apply)	
<input checked="" type="checkbox"/>	Study
<input type="checkbox"/>	Construction
<input type="checkbox"/>	Identified Projects and Processes (IPP)
<input type="checkbox"/>	Other

Category of Water Project (check all that apply and include relevant tasks)		
<input checked="" type="checkbox"/>	Supply and Demand Gap - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>	
<input checked="" type="checkbox"/>	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. <i>Applicable Exhibit A Task(s):</i>	
<input checked="" type="checkbox"/>	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i>	
<input checked="" type="checkbox"/>	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	Other	Explain:

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Location of Water Project

Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable.

County/Countries	Pueblo, Crowley, Otero, Bent, and Prowers Counties
Latitude	38.30806 to 37.81833
Longitude	104.6997 to 102.0567

Water Project Overview

Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.
The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.

Over the years, different entities have taken on the task of trying to quantify the health of the Arkansas River as it traverses 160 miles and across 400,000 acres of farmland. The various entities have put this information into multiple formats that appear to be unusable by the impacted communities (especially agriculture) for applying Best Management Practices for improved water quality and watershed health restoration. The purpose of this project is to develop and publish a detailed plan outlining what work has been completed in the valley, what work needs to be completed, and how science (monitoring & research) can be used to inform future work. The target of this guide will be to help identify areas of need for watershed health and BMP's that can be implemented to help alleviate high concentration of selenium, nutrients and uranium in the waterways.

This project will be divided into two tasks geared at developing a guide that can be used to target watershed restoration in the Arkansas River Basin. First, research of published and ongoing work related to watershed health will be completed. Second, a plan for evaluating monitoring and research needs to target project-oriented BMP's (including a proof-of-concept) will be created.

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Measurable Results		
To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:		
	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Non-consumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
844,800	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
400,000	Area of Restored or Preserved Habitat (acres)	
	Quantity of Water Shared through Alternative Transfer Mechanisms	
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
800	Number of Coloradans Impacted by Engagement Activity	
	Other	Explain:

Water Project Justification
<p>Provide a description of how this water project supports the goals of Colorado's Water Plan, the most recent Statewide Water Supply Initiative, and the applicable Roundtable Basin Implementation Plan and Education Action Plan. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).</p> <p>The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)</p> <p>The Colorado water plan identifies a strong environment that includes healthy watersheds, rivers, streams and wildlife as a core value, and this plan directly reflects the efforts at watershed health through identification of BMP's to help watershed health in future projects. Along with helping to develop a guide for project implementation based off scientific research, there will be education and outreach that will be completed to help demonstrated the current state of the river along with future projects that can be implemented. This project will not directly create an agricultural impact but will indirectly influence the implementation of agricultural projects in the Arkansas Basin by outlining areas of need from the research already completed.</p> <p>The Arkansas Basin Roundtable, Basin Implementation Plan (BIP) states support for efforts to improve watershed health in the basin, and this project will directly create a guide that will outline BMP's that can impact watershed health. The BIP also encourages agricultural efficiency within the basin and this guide will identify BMP's to be implemented that help agricultural efforts while making a positive impact of watershed health.</p>

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Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

This is the first project of its kind where data will be combined and processed into a useable format for BMP implementation, however the multiple studies that have been completed will aid in the creation of this guide including but not limited to the Gates Selenium Project, CDPHE non-point source water quality studies, USGS geology mapping, and NRCS BMP implementation guidelines.

Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.

General Manager, Carol Ekarius, has managed or overseen projects under numerous CWCB grants through Coalition for the Upper South Platte (CUSP), and Coalitions and Collaboratives (COCO), including but not limited to these that were specifically for ARWC (additional available upon request):
ARWC Kick-off WSRF: Fiscal Hosted by Lower Ark Valley Water Conservancy District, Agreement CTGG1 2015-3443; \$265,000
ARWC Fires: Fiscal Hosted by LAVWCD: POGG1PDAA201700000986. POGG1PDAA201700000985, POGG1 PDAA 201700001053; \$250,000

Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.

No conflicts – exempt from TABOR

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Submittal Checklist	
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract .
Exhibit A	
X	Statement of Work ⁽¹⁾
X	Budget & Schedule ⁽¹⁾
--	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
X	Map (if applicable) ⁽¹⁾
--	Photos/Drawings/Reports
--	Letters of Support (Support letter from Basin Roundtable encouraged)
--	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
--	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
--	W-9 ⁽²⁾
--	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
X	Engagement & Innovation Supplemental Application ⁽¹⁾

(1) Required with application.

(2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

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Colorado Water Conservation Board	
Water Plan Grant - Exhibit A	

Statement Of Work	
Date:	1/31/2018
Name of Grantee:	Arkansas River Watershed Collaborative
Name of Water Project:	Arkansas Basin Project Implementation Guide to Watershed Health
Funding Source:	Colorado Water Conservation Board
Water Project Overview:	
<p>Over the years, different entities have taken on the task of trying to quantify the health of the Arkansas River as it traverses 160 miles and across 400,000 acres of farm land. The various entities have put this information into multiple formats that appear to be unusable by the agricultural community for betterment of Best Management Practices (BMP's) implementation and watershed health restoration. The purpose of this project will be to develop and publish a detailed guide outlining what work has been completed in the valley, what work needs to be completed, and how the current work can be used for project implementation to help improve the watershed. The target of this guide will be to help identify areas of need for watershed health and BMP's that can be implemented to help alleviate high concentration of nutrients and metals in the waterways.</p> <p>This project will be divided into two tasks geared at developing a guide that can be used to target watershed restoration in the Arkansas River Basin. First, research of published and ongoing work related to watershed health will be completed. Second, a plan for evaluating water-quality improvement through project-oriented BMP's (including a proof-of-concept) will be created.</p>	

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Project Objectives:

The objective of this project will be to synthesize published work, institutional knowledge, and current research into a guide that can be used to direct research and monitoring, and implementation of for Best Management Practices (BMPs) or other future projects in the Arkansas Basin. The guide will help identify areas of need for watershed health that can be used for implementation of future projects that will have a side effect of watershed health.

The project will be composed of three tasks to help achieve this one objective which will include (1) public work synthesis, where all current, past, and proposed work will be combined to grasp a hold of the basic understand of the current issues within the watershed, (2) creation of a guide to better understand project implementation in the basin, and (3) education and outreach for both understanding of work that has been completed and how to fully utilize the project.

Tasks

Task 1 –Synthesis of the Public Works in the Arkansas Basin

Description of Task:

There have been multiple public works documents for watershed health in the Arkansas Basin including but not limited to the Arkansas Basin Watershed Plan, Colorado State University Selenium Research Plan, USGS watershed health documents, and NRCS best management practices for watershed health. The primary focus of task one will be to gather all the published documents and research to be combined into on general format. This will help prevent duplication of projects in the future as well as better understand the basic watershed health of the Arkansas River.

Method/Procedure:

In order to complete this task, the contractor will conduct the following aspects which will be completed by May 1, 2019. First, the contractor will conduct research on all public data that is available in the Arkansas Basin pertaining to Water Quality and Best Management Practices. Once all public data has been researched and compiled, the contractor shall contact all research agencies to ensure that there are is no missing data. Once this is completed, the data will be compiled into a database which will be used to better understand the data that has been collected and what data still needs to be collected. The contractor will provide a detailed report of the data that was collected, noting the public data that was researched and the entities that were contacted. The data collected will be added to a database that can be made public for future research. The data shall be analyzed, not for validity, but merely for data locations and types. This analysis will help the project understand the data that is out there and what data needs to be collected. It will also help the Arkansas Basin understand where BMPs can be installed to help with water quality and watershed health.

Deliverable:

Last Updated: Jan 16, 2018

Tasks
<p>A final summary report will be created outlining all work that has been performed, in progress, and then will be proposed for the Arkansas River Basin will be developed. This detailed summary report will include all resources in a single accessible format. The contractor shall also provide the database which will be user-friendly, ready for public access, and QA/QC'd for data inputs. The report and database will be delivered to the CWCB and posted for public outreach. Once this task is completed, by May 1, 2019, the contract will start working on the second task of the project.</p>

Tasks
Task 2 – Creation of Implementation Guide for Watershed Health Projects
<p>Description of Task:</p> <p>Using the data collection and research from Task 1, a detailed guide will be developed to help assist with future implementation projects. The guide will outline problem areas for watershed health and example BMP's that can be implemented to help alleviate the pressure of the contaminated waters within the watershed. The guide will also outline projects that have been completed and which projects are in progress to prevent duplication of similar projects. The last thing the guide will do it assist new innovative projects to be implemented which can help with watershed health. All of these tools will be usable by anyone within the Arkansas Basin.</p> <p>This guide will also be useable for the Arkansas Basin Decision Support System currently being developed, as well as the John Martin Reservoir to Stateline Watershed Plan. This tool will be useful in completing research projects as well as implementation projects.</p>
<p>Method/Procedure:</p> <p>The contractor will develop the guide using the data and research collected in Task 1. The contractor will analyze the data for gaps and watershed health benefits for implementation of BMPs. This guide shall be user-friendly and accessible to any member of the Arkansas River Basin. This tool will be useful in completing research projects as well as implementation projects. The contractor shall deliver the fully executed guide to the CWCB by December 1, 2019.</p>
<p>Deliverable:</p>

Last Updated: Jan 16, 2018

Tasks
The formal guide will be published and made public knowledge through CWCB. The final product will be delivered to CWCB and local entities including NRCS, Lower Arkansas Valley Water Conservancy District, CSU Research Station, and Southeast Colorado Water Conservancy District.

Tasks
Task 3 – Education and Outreach
Description of Task: Dialogue with water managers and stakeholders will be important for drafting, promoting, and subsequently implementing the guide for the Arkansas Basin. As research is being done in Task 1, feedback from local entities, publication authors, and local growers will be used in data collection and analysis. During Task 2 of the project, similar stakeholders will be contacted to help determine applicable implementation projects for the region for future use. After the Plan is written, the current understanding of what drives watershed health in the Arkansas Basin will be presented to local entities and through workshops such as the Arkansas Basin Water Forum.
Method/Procedure: Both formal presentations and informal conversations will be a part of the outreach effort. Presentations will be made to groups like the Arkansas Basin Roundtable, the Lower Arkansas Valley Water Conservancy District, Southeastern Colorado Water Conservancy District, canal companies, Colorado Farm Bureau District 4, the Arkansas River Basin Water Forum, and others as identified. Presentations on the results of the Plan will be made after publication.
Deliverable:

Last Updated: Jan 16, 2018

Tasks

The formal presentations identified above will be the deliverables.

Budget and Schedule

This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format.

Reporting Requirements

Progress Reports: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Report: At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

Payment

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Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

Project costs not covered by those or other grants, and are therefore the responsibility of the grantee, will be eligible for CWCB funds at the following percentages of project costs:

Type of Activity	Percent of Project Costs		
	Recommended Grant Funding Request	Max Grant Funding Request (All CWCB Sources)	Minimum Funding Match (Non-CWCB Sources)
Engineering & Construction	20%	50%	50%
Feasibility Study	50%	50%	50%
Reducing Agricultural Dry Up	50%	80%	20%
Conservation/Efficiency Methods	50%	80%	20%
Educational Efforts	50%	80%	20%
Environmental Conservation	50%	80%	20%
Watershed Improvements	50%	80%	20%
Stream Improvements	50%	80%	20%
Land Use Planning	20%	50%	50%
Recreational Projects	20%	80%	20%

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

Performance Measures

Performance measures for this contract shall include the following:

- (a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.
- (b) Accountability: Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.
- (c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.
- (d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.



Water Plan Grant - Exhibit B Budget and Schedule

Name of Water Project: Arkansas Basin Project Implementation Guide to Watershed Health

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Colorado Water Conservation Board

Water Plan Grant - Detailed Budget Estimate

Fair and Reasonable Estimate

Name of Grantee:*Arkansas River Watershed Collaborative

Name of Water Project:Arkansas Basin Project Implementation Guide to Watershed Health

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	Overall Project Staff Management	EIT Staff	Consultant Manaager	Consultant Principal Hydrologist	Consultant Senior Hydrologist	Consultant GIS support	Consultant Water Quality Specialist	Misc Supplies (Printing, etc)	Mileage		
rate	\$85.00	\$85.00	\$125.00	\$60.00	\$50.00	\$40.00	\$75.00	\$1,000.00	\$0.54	CWCB Costs	Matching Costs
	Estimated Hours										
Task 1 - Synthesis of Public Works = rate*total hours from tasks below	4250	4250	25000	7200	0	0	7950		108	\$39,758.00	\$9,000.00
Project Initiation / Stakeholder identification (HRS or Miles)	30	30	100	-	-	-	50		200		
Literature review (HRS or Miles)	20	20	100	120	-	-	56		-		
Task 2 - Creation of Implementation Guide for Watershed Health Projects	\$2,550.00	\$6,375.00	\$4,375.00	\$14,400.00	\$2,500.00	\$1,200.00	\$16,875.00	\$1,000.00	0	\$31,775.00	\$17,500.00
Plan writing (HRS or Miles)	10	5	25	200	-	-	90		-		
GIS / Graphics support (HRS or Miles)	10	30	-	40	50	30	80		-		
Specialists review (HRS or Miles)	10	40	10	-	-	-	55		-		
Task 3 - Education and Outreach	\$5,100.00	\$3,400.00	\$15,000.00	\$2,400.00	\$0.00	\$0.00	\$1,200.00	\$500.00	270	\$19,370.00	\$8,500.00
Stakeholder meetings and presentaions (HRS or Miles)	60	40	120	40	-	-	16		500		
TOTAL	\$11,900.00	\$14,025.00	\$44,375.00	\$24,000.00	\$2,500.00	\$1,200.00	\$26,025.00	\$1,500.00	\$378.00	\$90,903.00	\$35,000.00

NOTES:

*When the application has been approved by the Board, and this budget document is being submitted for PO or contract processing, the "Name of Applica
MUST be changed to "Name of GRANTEE" and remove the DATE field.

Ensure that pagination is included and correct, i.e., Page 1 of 2, Page 2 of 2, etc.

Subtotal

\$48,758.00

\$49,275.00

\$27,870.00

\$125,903.00

int" field

	9/1/2018	5/1/2019
Task 1 - Synthesis of Public Works		
Data Research and Compilation		
Database Development		
Task 2 - Creation of Implementation Guide for Watershed Health Projects		
Develop guide for Watershed Health Projects		
Task 3 - Education and Outreach		
Stakeholder meetings and presentaions		

[illegible]