



Contract CORE No. POGG1 2018-845
CMS #

April 10, 2018

Peak Spatial Enterprises, Inc.
Attn: Lori Koepsell, COO
20220 Twisted Pine Drive
Colorado Springs, CO 80908

Dear Lori:

We are pleased to inform you that the Colorado Department of Natural Resources, Colorado Water Conservation Board (CWCB) has approved your application for funding pursuant to the WSRF Grant Program ("Program") in the amount of \$20,000. This letter authorizes you to proceed with the Water Information/Real Estate Disclosure Tool Project ("Project") in accordance with the terms of this Grant Award Letter.

Attached to this letter are the terms and conditions of your Grant. Please review these terms and conditions, as they are requirements of this Grant to which you, Peak Spatial Enterprises agree by accepting the Grant Funds.

The WSRF Criteria & Guidelines can be located on our website for additional information.

If you have any questions or concerns regarding the project, please contact Megan Holcomb, Project Manager at 303-866-3441 ext. 3222 or at Megan.Holcomb@state.co.us. Please send the 6-month progress reports and invoices directly to the Project Manager and cc me at Dori.vigil@state.co.us.

Thank you.

Sincerely,

//s//

Doriann Vigil
Program Assistant II
O 303-866-3441 ext. 3250
1313 Sherman Street, Rm. 719, Denver, CO 80203
Dori.vigil@state.co.us / cwcb.state.co.com

Attachments



STATE OF COLORADO
Department of Natural Resources

Page 1 of 2

ORDER

*****IMPORTANT*****

Number: POGG1,PDAA,201800000845

Date: 04/09/18

Description:

PDAA 2500 WSRF-WTR INFO_H2infO-Real Estate
Disclosure tool

Effective Date: 04/10/18

Expiration Date: 12/31/19

The order number and line number must appear on all invoices, packing slips, cartons, and correspondence. Please review each line for its corresponding shipping/billing address and delivery instructions.

BUYER

Buyer:

Email:

VENDOR

PEAK SPATIAL ENTERPRISES INC
20220 TWISTED PINE DRIVE
COLORADO SPRINGS, CO 80908

Contact: .

Phone: .

EXTENDED DESCRIPTION

Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$10,000.00	<input type="checkbox"/>
Description:	PDAA 2500 WSRF-WTR INFO_H2infO-Real Estate Disclosure tool					

Service From: 04/10/18

Service To: 12/31/19

Delivery Instructions

FOB: FOB Dest, Freight Allowed

Delivery Date:

Ship To:

COLORADO WATER BOARD
CONSERVATION
1313 SHERMAN STREET, ROOM 718
DENVER, CO 80203

Bill To:

COLORADO WATER BOARD CONSERVATION
1313 SHERMAN STREET, ROOM 718
DENVER, CO 80203

Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
2	G1000		0	0.00	\$10,000.00	<input type="checkbox"/>
Description:	PDAA 2500 WSRF-WTR INFO_H2infO-Real Estate Disclosure tool					

Service From: 04/10/18

Service To: 12/31/19

Delivery Instructions

FOB: FOB Dest, Freight Allowed

Delivery Date:



STATE OF COLORADO
Department of Natural Resources

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Ship To:	Bill To:
COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203	COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203
TERMS AND CONDITIONS https://www.colorado.gov/pacific/osc/small-dollar-grant-award-terms-conditions	
DOCUMENT TOTAL = \$20,000.00	



Last Update: May 19, 2017

Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A - Statement of Work</u>	
Date:	June 1, 2017
Water Activity Name:	Water Information / Real Estate Disclosure Tool – H2infoO
Grant Recipient:	Peak Spatial Enterprises Inc. and Chambers Econ and Analytics, LLC
Funding Source:	WSRF
Water Activity Overview: (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for.	
<p>Our proposed water information disclosure tool is a free, online, public data aggregation and disclosure tool linking water supplier information with property buyers and real estate multiple listing service (MLS) to increase property buyer awareness of address specific conservation plans, water planning, and municipal water suppliers. The public's use of the tool directly supports the statewide conservation ethic recognizing the need to work within our arid environment, increases specific understanding of conservation practices, and reduces wasteful behavior.</p> <p>The tool consolidates and communicates water information in a user friendly, accessible format allowing users to search by property address. With more than 50,000 annual real estate transactions from Denver to Pueblo Counties, these typically municipal buyers are closely tuned into water metrics and conservation tools that apply to property transaction in which they have a stake.</p> <p>The real estate community is incentivized to use the tool to inform and serve all types of clients. Water suppliers benefit from consumer understanding of supplier details. Home buyer participation in water understanding and engagement provides the foundation needed to meet the CWP stretch goal.</p> <p>The project serves the mission of Colorado's Water Plan and as a public good; therefore, matching Water Supply Reserve Funds sought from Statewide and Basin accounts.</p>	
Objectives: (List the objectives of the project)	
<p>Online information communication tool to provide water supplier, conservation planning, performance metrics and Colorado Water Plan information to Front Range real estate market participants and professions (buyers, sellers, brokers, agents, mortgage bankers, inspectors and more).</p> <p>Key Objectives include the following: Water Supplier Transparency; Easy Access to Water Conservation Plans; Increased Real Estate Community and Buyer Awareness of Water Supply Information; Expansion of Front Range Citizens Understanding and Interaction with Water Supply Information; Provision of Easily Accessible and User Friendly Water Information focused on Real Property; Provision of Comparative Water Information based on Addresses; Create a Publicly Available Resource for Dissemination of State Required Water Data; Create "Ripple Effect" of public access to consolidate source of accurate and user friendly data on Front Range municipal water supply.</p>	



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<u>Task 1 – Define Water Supplier Attributes/Build GeoDatabase</u>
Description of Task: <p>The primary objective of this task is to establish the initial list of water supplier attributes to be used in the consumer system. An initial list has been developed and it includes a number of key metrics that we believe will be useful and informative to real estate buyers. The task will determine what State metrics might be accessed as well as metrics that the tech/ops team believes would be most useful to a real estate buyer. The team has already begun this process of identifying and collecting candidate attributes. Possible attributes include:</p> <ul style="list-style-type: none">• Utility Analytical Tools and Performance Metrics<ul style="list-style-type: none">○ Financial position summary including outstanding debt○ Standard & Poor's Bond Rating○ Annual Operations & Management budget per service connection○ Avg. annual investment in capital projects / resource acquisition○ % mix renewable water resources vs. non-renewable Denver Basin○ Avg. annual main breaks per 100 miles of pipe○ American Water Works Association Manual 36 Water Loss audit calculation○ Avg. annual budget for water conservation○ ISO (Insurance Service Office) fire protection rating that drives insurance premiums• Core Infrastructure and Water Resource Mapping• Proximity to Wells/Aquifers/Ditch/Irrigation Companies• Overlay of other utility provider service areas for natural gas and electric• Overlay mapping of Water Conservation Districts, Groundwater Management District's, Fire Protection District's and State & Federal Lands.• Copy of Water Service Provider's Consumer Confidence Report (CCR)• Copy of Water Service Providers Water Conservation Plan
Method/Procedure: <p>Technical development of the geodatabase will be accomplished by the Peak team with discussions and meetings with water suppliers primarily conducted by Chambers Econ and Analytics. The methods will include a combination of searching water supplier sites for publicly supplied information as well as direct interactions with water supplier management to determine the accessibility of this information. The team will also discuss the types of information available and required at the State level for inclusion in the geodatabase. The basic conservation plans required at the State level are of particular interest and may be included by connecting to individual water supplier sites or by accessing them through available State repositories.</p>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
The team will provide a list of attributes and their database structure that will be used to support the water disclosure system. This task will be an iterative task where we propose meeting with the CWCB to coordinate the specific attributes included in the system and any issues that the team might encounter as they develop the database. The team recommends that this task include monthly reviews of the basic database activities up to the point of making the specific determination of included information for the deployed system development and operations.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Monthly meetings to discuss the database process and results. These meetings will be coordinated with the CWCB upon grant initiation.



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<u>Task 2 – Build and Test the Water Disclosure System</u>
Description of Task: <p>This task makes up the bulk of the work associated with system implementation. Once the initial task of defining initial attributes is completed the tech team will build and test the user interfaces and connections needed to provide the baseline water disclosure system for public operations. The “build” component includes:</p> <ul style="list-style-type: none">• Populating the geodatabase with selected attributes,• Development of the geospatial retrieval, by address, of the water supplier information,• Development of User Interfaces (mobile/web) to access the information, and• Development of the report(s) that a user might retrieve from the system. <p>Each of these components will be tested by the development team and will be demonstrated to the supporting water grant providers for their input.</p>
Method/Procedure: <p>The team will build the basic system and will work with the CWCB and river basin leads to demonstrate the basic functionality as the system evolves. This task is projected to last approximately 3 months depending on the input and modifications required or requested by the Grantor.</p>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task) <p>The deliverables include the initial tested versions of the production database with water supplier attributes, the geospatial address retrieval geoprocessing services, the User Interfaces linked to the retrieval and database, and the report(s) that can be accessed through the system.</p>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task) <p>The online system that includes public access to the retrieval of water supplier information via address selection.</p>

Repeat for Task 3, Task 4, Task 5, etc.



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<u>Task 3 – Coordinate with Real Estate MLS and other Beneficiaries</u>
Description of Task: This task will be conducted concurrently with system development and will continue through the operational implementation of the system. The team will meet with select Colorado MLS sponsors in the County regions of interest to educate them on the availability of the data and use of the system. The team will work with the real estate community to determine the best ways to provide realtors and their customers the information that they might want to include water supply information as part of the buyer's choice.
Method/Procedure: The team will identify candidate Real Estate MLS organizations and will set up and conduct meetings and demonstrations of the system to get their input and provide them the information that they would need to access the system within their organizations.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
List of Real Estate MLS organizations Meeting notes on specific interactions with these MLS groups including any recommendations received as a result of these meetings.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
List of Real Estate MLS organizations Meeting notes on specific interactions with these MLS groups including any recommendations received as a result of these meetings.



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<u>Task 4 –Deploy and Operate the Water Disclosure System</u>
Description of Task: Following successful testing the system will be migrated to an operational server and the site will be publicly posted for access by the public. The system will operate from the Peak Spatial hosted servers at a secure facility in Colorado Springs. Updates to the database and the system will occur throughout the operational period as new information is identified and added to the system. These updates would include modifications made by water districts as they update their conservation plans and other data that is part of the system.
Method/Procedure: The system will operate on a 24/7 basis for use by the public and real estate professionals and organizations as they review possible property acquisitions. The system will be online so there will be operational costs of running the system from the hosting facility along with any updates and maintenance mods that might be required after deployment.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
The operational system running online for the duration of the operational 18 month period.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
The operational system running online for the duration of the operational 18 month period.



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<u>Task 5 – System Operations Status</u>
Description of Task: During the deployment and operations phase of the task the team will collect metrics on the use of the system to determine the effectiveness and utility of the data provided to the public. This data collection effort will be coordinated during the development phase of the task so that metrics can be collected to determine basic information about the site. The team will prepare quarterly updates on use of the site for the CWCB and will use this information to update and modify the site during the operational period to better serve the information needs of the public and the benefactors of the system
Method/Procedure: The method used for this particular task will be collection of information via web access metrics associated with the site as they are developed during the system development task. The team will include in the design of the system mechanisms to track access and use. The output of this tracking will be the quarterly reports to the CWCB of use of the system
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Access tracking tools for the system Quarterly reports to the CWCB during the operational period.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Quarterly reports on access and use of the system.



Last Update: May 19, 2017

Tasks
Provide a detailed description of each task using the following format:
<u>Task 6 –Update and Maintain System</u>
Description of Task: The team will update and maintain the system during the period of operations as determined to be necessary. This may include modification to the server operating systems, database updates, and any required updates to the geospatial software components.
Method/Procedure: The team will make any updates to the system after they coordinate possible activities with the CWCB. Recommendations as to the updates to be made will be accomplished by the tech team and, in coordination with the CWCB, will be made at times that are the least impactful to the public users.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task) Updates to the system that allow the system to maintain viability and security through the deployment period.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task) A quarterly report on any updates will be included with the basic operational metrics collected as part of Task 5 – System Operational Status
Budget and Schedule
<u>Budget:</u> This Statement of Work and Schedule shall be accompanied by a Budget (link?) that reflects the Tasks identified in the Statement of Work and Schedule and shall be submitted to CWCB in an excel format.
<u>Schedule:</u> This Statement of Work and Budget shall be accompanied by a Schedule (link?) that reflects the Tasks identified in the Statement of Work and Budget and shall be submitted to CWCB in an excel format.



Last Update: May 19, 2017

Reporting Requirements

Reporting: The grantee shall provide their respective Roundtable(s) and the CWCB a Progress Report every 6 months, beginning from the date of executed contract. The Progress Report shall describe the status of the water activity, the completion or partial completion of the tasks identified in the Statement of Work including a description of any major issues that have occurred and any corrective action to address these issues. The CWCB may withhold reimbursement until satisfactory Progress Reports have been submitted.

Final Deliverable: At the completion of the water activity, the grantee shall provide their respective Roundtable(s) and the CWCB a final report on the grantee's letterhead that:

- Summarizes the water activity and how the water activity was completed
- Describes any obstacles encountered, and how these obstacles were overcome
- Explains the Proposed Budget versus the Actual Budget
- Confirms that all matching commitments have been fulfilled
- Includes photographs, summaries of meeting and engineering reports/design, if appropriate

The CWCB will withhold the last 10% of the entire water activity budget until 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 water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

**COLORADO**Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board**Water Supply Reserve Fund****Exhibit B - BUDGET AND SCHEDULE (Combined WSRF and CWP)****Date: 5 Sept 2017****Water Activity Name: Water Information/Real Estate Disclosure****Grantee Name: Peak Spatial Enterprises and Chambers Econ and Analytics**

<u>Task No.</u>	<u>Description</u>	<u>Start Date</u> ⁽¹⁾	<u>End Date</u>	<u>Matching Funds Applicant (cash & in-kind)</u> ⁽²⁾	<u>Matching Funds CWCB (cash)</u>	<u>WSRF Funds (Basin & Statewide combined)</u> ⁽²⁾	<u>Total</u>
1	Define Water Supplier Attributes/Build GeoDatabase	10-Apr-18	31-May-18	\$8,000	\$12,500	\$2,500	\$23,000
2	Build and Test Water Disclosure System	10-Apr-18	31-May-18	\$12,500	\$17,500	\$5,000	\$35,000
3	Coordinate with Water Supplier / Real Estate Users	10-Apr-18	31-May-18	\$5,500	\$15,000	\$3,000	\$23,500
4	Deploy and Operate Disclosure System - 18 months following publication of site	10-Apr-18	31-Dec-19	\$12,500	\$10,000	\$5,000	\$27,500
5	System Operations Status - Quarterly system use updates during Task 4	10-Apr-18	31-Dec-19	\$2,500	\$2,000	\$1,500	\$6,000
6	Update and Maintain System - system updates as needed during Task 4	10-Apr-18	31-Dec-19	\$6,500	\$3,000	\$3,000	\$12,500
Total				\$47,500	\$60,000	\$20,000	\$127,500

(1) Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.**(2)** Round values up to the nearest hundred dollars.

Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal NTP if prior to the listed "Start Date"

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.

- Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution

Water Plan Grant - Detailed Budget Estimate

Date:10-Apr-18

Name of Applicant:Peak Spatial Enterprises and Chambers Econ & Analytics

Name of Water Project:Water Information / Real Estate Disclosure Tool - H2info

Information Systems Implementation and Operations

Task 1 - Define Water Supplier							
Attributes/Build GeoDatabase							
Sub-task	Job Categories						
	Senior Principal Investigator	Senior Water Resources Analyst	Geospatial Systems Specialist	Software and Systems Engineer			
	\$ 99	\$ 100	\$ 84	\$ 99	Subtotal		
Estimated Hours							
Identify Water Providers				0	\$ -		
Refine Provider Attributes				0	\$ -		
Create Geodatabase				0	\$ -		
Collect and Verify Data	4	4	20	1	\$ 2,574.25		
SubTotals	4	4	20	1	\$ 2,574.25		

Task 2 - Build and Test Water Disclosure System							
Water Consultants							
Sub-task	Senior Principal Investigator	Senior Water Resources Analyst	Geospatial Systems Specialist	Software and Systems Engineer			
	\$ 99	\$ 100	\$ 84	\$ 99	Subtotal		
Estimated Hours							
Populate Geodatabase w Attributes			20	\$ 1,680.60			
Develop Geospatial Retrieval of Info			8	8 \$ 1,462.08			
Develop User Interface	4	2		8 \$ 1,384.76			
Develop Report Formats and Connect	4			\$ 394.92			
SubTotal	8	2	28	16	\$ 4,922.36		

Task 3 - Coordinate with Real Estate MLS and other Beneficiaries							
Water Consultants							
Sub-task	Senior Principal Investigator	Senior Water Resources Analyst	Geospatial Systems Specialist	Software and Systems Engineer			
	\$ 99	\$ 100	\$ 84	\$ 99	Subtotal		
Estimated Hours							
Coordination	10	20	0	0	\$ 2,987.30		
SubTotal	10	20	0	0	\$ 2,987.30		

Task 4 - Deploy and Operate the Water Disclosure System							
Water Consultants							
Sub-task	Senior Principal Investigator	Senior Water Resources Analyst	Geospatial Systems Specialist	Software and Systems Engineer			
	\$ 99	\$ 100	\$ 84	\$ 99	Subtotal		
Estimated Hours							
Deploy	4		14	20	\$ 3,545.94		
Operate			8	8	\$ 1,462.08		
SubTotal	4	0	22	28	\$ 5,008.02		

Task 5 - System Operational Status and Performance Metrics							
Water Consultants							
Sub-task	Senior Principal Investigator	Senior Water Resources Analyst	Geospatial Systems Specialist	Software and Systems Engineer			
	\$ 99	\$ 100	\$ 84	\$ 99	Subtotal		
Estimated Hours							
System Operational Status	2	2	4	6	\$ 1,325.96		
Performance Metrics	2		0	0	\$ 197.46		
SubTotal	4	2	4	6	\$ 1,523.42		

Task 6 - Update and Maintain System							
Water Consultants							
Sub-task	Senior Principal Investigator	Senior Water Resources Analyst	Geospatial Systems Specialist	Software and Systems Engineer			
	\$ 99	\$ 100	\$ 84	\$ 99	Subtotal		

Subcontracts (NA for this Project under the CWP)						Total
Geotechnical Lump sum	Environmental and Cultural Resources Lump Sum	Water Rights and other Legal	Technical editing and proofing Lump Sum	Report Word Processing and Graphic Design Lump Sum	Subtotal	
per Task and						
						\$0
						\$0
						\$0
						\$2,574

Subcontracts						Total
Geotechnical Lump sum	Environmental and Cultural Resources Lump Sum	Water Rights and other Legal	Technical editing and proofing Lump Sum	Report Word Processing and Graphic Design Lump Sum	Subtotal	
per Task and						
						\$0
						\$1,681
						\$1,462
						\$1,385
						\$395

Subcontracts						Total
Geotechnical Lump sum	Environmental and Cultural Resources Lump Sum	Water Rights and other Legal	Technical editing and proofing Lump Sum	Report Word Processing and Graphic Design Lump Sum	Subtotal	
per Task and						

Subcontracts						Total
Geotechnical Lump sum	Environmental and Cultural Resources Lump Sum	Water Rights and other Legal	Technical editing and proofing Lump Sum	Report Word Processing and Graphic Design Lump Sum	Subtotal	
per Task and						

Subcontracts						Total
Geotechnical Lump sum	Environmental and Cultural Resources Lump Sum	Water Rights and other Legal	Technical editing and proofing Lump Sum	Report Word Processing and Graphic Design Lump Sum	Subtotal	
per Task and						
						\$1,326
						\$197

Subcontracts						Total
Geotechnical Lump sum	Environmental and Cultural Resources Lump Sum	Water Rights and other Legal	Technical editing and proofing Lump Sum	Report Word Processing and Graphic Design Lump Sum	Subtotal	

per Task and		
	\$ -	\$1,546
		\$1,472
		\$20,034
		\$0
		\$0
		\$20,034