**ENTITY INFORMATION**

Meadow Mountain Water Supply Company [RCBarkworth@yahoo.com](mailto:RCBarkworth@yahoo.com) 303-823-2318

Facility E-mail Phone

P.O. Box 354, Allenspark, CO 80510 Boulder CO-0207504

Mailing address County NPDES/PWSID

Meadow Mountain Water Supply Company [rcbarkworth@yahoo.com](mailto:rcbarkworth@yahoo.com) 303-823-2318

Owner(s) e-mail Phone

Meadow Mountain Water Supply Company [bob.biebel@tedturner.com](mailto:bob.biebel@tedturner.com) 303-747-2108

Owner(s) E-mail Phone

Federal Tax Identification Number:NN 23-7185646 DUNS #: 609864694

Attach W-9 form (Data Universal Number System)

Project manager or contact person: Financial officer:

Name: Rachel Barkworth Name: Aaron Azari

Title: Plant Supervisor/Board Member Title: Treasurer

Address: P.O. Box 354, Allenspark, CO, 80510 Address: 7642 Lee Dr, Arvada,

CO, 80005

Phone: 303-823-2318 Fax: 303-823-2318 Phone: 303- 420-5542 Fax: None

E-mail: rcbarkworth@yahoo.com E-mail: [akazari@csbt.com](mailto:akazari@csbt.com)

Print name and title of authorized official: BOB BIEBEL, PRESIDENT

Signature of authorized official:

Date

**By signing and submitting the attached application, the authorized official agrees that the information provided in this application is, to the best of the applicant’s knowledge and based on reasonable inquiry, true, accurate and complete. The applicant understands that knowingly submitting any false information on this application could result in the project not being considered for funding or voiding any current or future contracts with the Colorado Department of Public Health & Environment.**

**Total grant amount requested** (**Tier I;** Up to $100,000 or **Tier II;** Greater than $100,000 to $850,000)**: $380,700**

**Total match: $163,157**  **Source(s) of match**:  **Special Assessment**

**Total project: $543,857**

**DETAILED PROJECT DESCRIPTION *(****attach additional sheets if necessary****)***

Meadow Mountain Water Supply Company (MMWSC) is proposing to upgrade the distribution system by installing new high-density polyethylene pipe (HDPE 4”) buried to a minimum depth of eight feet to prevent main line winter freezing. MMWSC hired Lidstone and Associates to develop recommendations for the distribution system operational improvements. The report from the engineers is attached in Attachment A.

**ENTITY ELIGIBILITY:**

Governmental agency.

Not for profit public drinking water system.

**PROJECT ELIGIBLITY:**

Type of project:

Drinking water project **\*\*Please complete questions 1-20\*\***

Wastewater project **\*\*Please complete questions 1-3 & 21-42\*\***

**Financial/Affordability (All Projects)**

1. Latest available median household income (MHI) of the community: $46,250
2. Data source (census name): 2009-2013 ACS – 5 year economic statistics

*Resources: 2009- 2013 American Community Survey (ACS) or other DOLA income surveys.*

1. Is this project a result of a natural disaster in a county where the governor has declared a disaster emergency by executive order or proclamation under CRS section 24-33.5-704?

**Yes**  **No If yes, which county:** Boulder County – flood of 2013

**Drinking Water Projects: Financial/Affordability**

1. Total resident population (persons) served: maximum 80 (as of 12/31/2014)
2. Total residential properties (households) served: 41 (as of 12/31/2014)
3. System utilization: Annual water usage (gallons) 4,118,000 used by households (for 2014), total diverted and treated in 2014 was 7,159,100 (gallons).

|  |  |  |
| --- | --- | --- |
| Residential % | Commercial % | Industrial % |
| 100% | 0% | 0% |

1. Drinking water system finances (based on financial statements for the year ending 12/31/2014):
   1. Annual drinking water user charges (operating revenues) $ 225,454.37 – Note. $166,016 was a special assessment collected in 2014 for a new water treatment ultra-filtration system. We are still collecting from some consumers who could not pay all the special assessment at the beginning, so we will continue collecting until Q4 of 2017. Also note that $20,000 was a grant from CDPHE for planning for our water plant. Normal Revenue is approximately $40,000 per year. I enclose financials for 2013 as well to show a normal revenue/expense year for MMWSC. Please see Attachment B.
   2. Annual drinking water system operating expenditures $ 43,510.50. In 2014 we put $154,744.35 into capital improvements for our new water treatment ultra-filtration system. We had to make these changes due to the fact that MMWSC was under an enforcement order from CDPHE related to turbidity violations at our WTP. The enforcement order was removed in March 2015.
   3. Total long term drinking water system debt $0.00

**Drinking Water Project: Drinking Water Quality & Public Health**

**IMPORTANT: For all questions where the answer is** YES: **Please briefly explain on this application and/or attach supporting documentation to ensure information can be validated and full point credits can be awarded. Failure to include this information could result in the project being determined ineligible or prioritizing low.**

1. Does this project address a waterborne disease outbreak associated with the system within the past 24 months?**Yes**  **No**
2. Does this project address or prevent violations of maximum contaminant levels (MCLs) of primary standards? ** Yes** ** No**

Please check all that apply:

Radionuclides.

Nitrate, nitrite, TCR.

Total trihalomethanes, total haloacetic acids.

Arsenic, selenium.

Other regulated contaminants. Describe: ­­­­­­­­­­­­­­­End Point Chlorine Residual minimums of 0.2 mg/l are difficult to maintain without putting significant chlorine into the water at the water treat plant, thus making the amount of chlorine for residents closer to the WTP extremely high.

1. Does this project address inadequate treatment techniques that are unable to satisfy the CPDWR requirements?  **Yes**  **No**

Please check all that apply:

Surface water.

GWUDI.

Groundwater.

We cannot maintain end point chlorine residual minimums because the chlorine is being consumed by pipe corrosion.

1. Does this project correct or prevent inadequate distribution due to system deterioration (i.e., experiencing multiple line breakages)?  **Yes**  **No**

We are unable to deliver end point chlorine residuals of 0.2mg/l as required by CDPHE starting April 2016 without over-chlorinating upstream users. We also have difficulty in keeping our chlorine contact time at the required amounts during winter when water is bled to keep our mains pipes from freezing.

We currently bleed water at a rate of over 30 gpm to prevent water main winter freezing. We are in danger of depleting creek levels downstream and thus affecting neighboring water systems (Allenspark Water & Sanitation District). For the last two years, since the 2013 flood changed the stream dynamics, flow rate to Allenspark Water & Sanitation District was virtually inadequate. The Crystal Springs supply ran dry completely and froze the facilities requiring shutdown of the facility for the 2015 winter. This is a direct result of Meadow Mountain Water Supply’s distribution system. This project will reduce winter bleeding by 3 times the amount of water required by Allenspark Water & Sanitation District.

1. Does this project correct or prevent inadequate distribution due to chronic low pressure?

**Yes**  **No**

Residents on the distribution lines to be replaced by this project are currently experiencing low pressure.

1. Does this project correct or prevent inadequate storage? **Yes**  **No**

This project will reduce the storage requirements as it reduces the water demand.

1. Does this project correct or prevent demand exceeding design capacity?  **Yes**  **No**

The system’s winter bleed demand taxes the current design capacity of the water plant and causes our operations to be run at the very edge of disaster. During winter operations, creek infiltration galleries become plugged requiring backflush operations. During this time the bleeding rate and local demand continues to demand water at 45gpm, with a storage operating capacity in the clearwell of approximately 6000 gallons, this provides less than 2 hours of supply before the clearwell runs dry and the entire distribution system starts to freeze. Operations at the water plant require ultra-filtration membrane backwashes every 4-8 hours on 10 filters and this demand adds to the risk of running the clearwell dry. If we could eliminate all the system bleeds, our water demand rate would reduce from 45gpm to 15gpm. This project is projecting to reduce 2 bleeds thereby lowering demand by 10gpm, future projects would have the goal to continue to eliminate all winter bleeding.

**Colorado Primary Drinking Water Regulations Compliance**

**IMPORTANT: For all questions where the answer is** YES: **Please briefly explain on this application and/or attach supporting documentation to ensure information can be validated and full point credits can be awarded. Failure to include this information could result in the project being determined ineligible or prioritizing low.**

1. **Levels of Compliance** Select the option that best describes the systems compliance level:

System has no health-based violations in the past 24 months *and* this project enables the system to meet new requirements (change in status).

In April 2016, CDPHE introduces the new requirement for End Point Chlorine Residual to be at 0.2mg/l. Currently we are at risk of non-compliance. We received a letter from CDPHE warning us of this non-compliance – please see attached – Attachment C.

System is in compliance with division issued compliance schedule that is not a part of an enforcement order *and* this project addresses that schedule.

System has MCL violations *or* failure to filter violations *or* other *health*-based violations *or* unresolved significant deficiencies *and* this project will address those violations.

Meadow Mountain Water Supply Company has a significant deficiency in that we are unable to consistently supply end point chlorine residuals of 0.2mg/l.

System is in compliance with enforcement order *and* this project will enable all or part of the order to be closed.

System is not in compliance with enforcement order or compliance advisory.

1. How many monitoring, reporting, public notice or operator certification violations has the system had in the past 24 months?

**None.**

**1-3.**

**More than 3.**

The four violations that are categorized as “MONITORING, ROUTINE”, whether MAJOR or MINOR are due to a miscommunication between the lab that MMWSC was using for the testing and the Colorado Department of Public Health and Environment related to their paperwork, documentation and certification. The lab has corrected the deficiency, but we were assigned a violation for not knowing that the lab supposedly no longer had their certification to allow them to perform the tests accurately. We did perform the tests and we did receive results from those test. Those results were submitted to the CDPHE. We have changed the lab that we are using so that we do not have to deal with a lab that cannot keep its certification requirements current. We were advised by CDPHE that as soon as we had completed the water tests that were under the violations in 2014, in 2015 that we would clear the violations. We have just completed (September 2015) all the tests for 2015 and are therefore no longer in violation of using an incorrect lab for the tests.

**Drinking Water Projects: Readiness to Proceed**

**IMPORTANT: For all questions where the answer is** YES: **Please briefly explain on this application and/or attach supporting documentation to ensure information can be validated and full point credits can be awarded. Failure to include this information could result in the project being determined ineligible or prioritizing low.**

1. Project has secured one or more of the following:

Plans and specifications submitted.

Plans and specifications approved.

Distribution main line replacements without adding booster chlorine systems do not require prior approval, so no plans and specifications have been submitted to CDPHE at this time. Plans will be developed to provide detailed blueprints to the contractors and for the purposes of getting grant approval. Costs have been included in the budget to cover this activity.

1. Has this project received prior Drinking Water Revolving loan and/or planning grant funding in the past 24 months?

**Yes**  **No**

Small Water Systems Training and Technical Assistance grant, awarded to MMWSC in July 2013, project completed by April 2014.

1. Does this project have funding secured by multiple financial assistance provider(s)?

**Yes** **No** *Yes, describe in budget narrative.*

1. Please indicate if the water system is metered for conservation and water efficiency:

100% of service area is metered, or will be metered with project.

50%+ of service area is metered, or will be metered with project.

**Wastewater Projects: Financial/Affordability**

1. Total resident population (persons) served:           (as of 12/31/2014)
2. Total residential properties (households) served:            (as of 12/31/2014)
3. System utilization: annual wastewater usage (gallons)            (for 2014)

|  |  |  |
| --- | --- | --- |
| Residential % | Commercial % | Industrial % |
|  |  |  |

1. Wastewater system finances (based on financial statements for the year ending 12/31/2014):
   1. Annual wastewater user charges (operating revenues) $
   2. Annual wastewater system operating expenditures $
   3. Total long term wastewater system debt $

**Wastewater Projects: Water Quality Improvement**

**IMPORTANT: For all questions where the answer is** YES: **Please briefly explain on this application and/or attach supporting documentation to ensure information can be validated and full point credits can be awarded. Failure to include this information could result in the project being determined ineligible or prioritizing low.**

1. Does project address an identified water quality impairment of a water body that is included on the 303(d) list?  **Yes**  **No**
2. Does project address an identified future effluent limit (i.e. addresses a future, new limit with a compliance schedule)?  **Yes**  **No**
3. Is this a point source or non-point project apply permanent BMPs to mitigate against erosion, sedimentation and pollution runoff? (Not including temporary for construction)  **Yes**  **No**
4. Does this project address onsite wastewater treatment systems shown to be polluting either surface or groundwater by consolidation with a centralized system?  **Yes**  **No**

**Wastewater Projects: Environmental protection/water quality protection – collection system**

1. Project will correct or prevent one of the following:

Inadequate collection system due to system deterioration ( Compliance schedule for correcting I&I in permit or documents excessive I&I).

Inadequate collection system due to documented sanitary sewer overflows (must provide backup information).

Inadequate collection system due to inadequate or limiting capacity.

**Wastewater Projects: Environmental protection/water quality protection - biosolids**

1. Does this project improve biosolids quality to allow for a higher level of beneficial use (i.e. improved treatment to achieve Class B biosolids or improved treatment to increase biosolids from Class B to Class A)?  **Yes**  **No**
2. Does this project increase capacity of the solids handling processes allowing the solids handling processes to match the liquid treatment process?  **Yes**  **No**
3. Does this project include removing accumulated biosolids (for example within a lagoon) to recover wastewater treatment efficacy and/or capacity?  **Yes**  **No**

**Wastewater Projects Permit Compliance**

**IMPORTANT: For all questions where the answer is** YES: **Please briefly explain on this application and/or attach supporting documentation to ensure information can be validated and full point credits can be awarded. Failure to include this information could result in the project being determined ineligible or prioritizing low.**

1. This project enable the facility to:

**M**aintain permit compliance

Meet new requirements (i.e. addresses a future, new limit with a compliance schedule).

Does not apply.

1. How many effluent violations occurred in the past 24 months?

None.

1-3.

More than 3.

1. Does the facility experiences throughput exceeding the 80% of the permitted capacity of the plant and the project addresses the expansion planning requirements within the discharge permit?  **Yes**  **No**
2. Does the facility experiences throughput exceeding 95% of the permitted capacity of the plant and the project addresses the expansion construction requirements?  **Yes**  **No**
3. Is the facility currently discharging without a permit and will this project enable the facility to attain compliance either with a new discharge permit or no longer discharging?  **Yes**  **No**
4. How many times has the facility had monitoring, reporting, ORC violations in the past 24 months?

 None.

 1-3.

 More than 3.

**Wastewater Projects: Readiness to Proceed**

**IMPORTANT: For all questions where the answer is** YES: **Please briefly explain on this application and/or attach supporting documentation to ensure information can be validated and full point credits can be awarded. Failure to include this information could result in the project being determined ineligible or prioritizing low.**

1. This project has secured one or more of the following:

Request for PELs submitted. Date

Site application submitted and approved. Date

Plans and specifications submitted. Date

Plans and specifications approved. Date

1. This project implements one or more of the following:

Watershed management plan.

Source water protection plan.

Nonpoint source management plan.

Approved 305(b) Report Category 4b designation.

Nutrient management plan.

Comprehensive land use planning.

Water conservation plan.

1. Has this project received prior Water Pollution Control Revolving Fund loan and/or planning grant funding in the past 24 months?

**Yes**  **No**

1. Does this project have funding secured by multiple financial assistance provider(s)?

**Yes**  **No** *Describe in budget narrative.*

**Other Information**

1. Please check all that apply for the proposed project:

Engineer/consultant(s) has been selected.

Agreements are in place with selected engineer/consultant(s) (Please provide copy – see Appendix G).

Site application has been submitted to the division’s engineering review unit (if required)?

Technical plans and specifications have been submitted to the division’s engineering review unit (if required)? Date

1. **Tabor Spending limits.** If the applicant is a local government, does the applicant qualify as a TABOR enterprise or otherwise have the ability to receive and spend state grant funds under TABOR spending limits?  **Yes** ** No**

If no, please describe:

**Please note: This grant is classified as state dollars. If acceptance of this grant exceeds your spending limitations it could jeopardize your ability to accept funds. It is the responsibility of the awardee to comply with TABOR requirements.**

**Attachment A – Operational Improvements Report from Lidstone & Associates Engineers**

**Attachment B – Financials for 2013 and 2014 for MMWSC**

**Attachment C – Notification of Chlorine Residuals from CDPHE dated 2015-10-12**

**Attachment D – W9 for MMWSC**

**Attachment E – MMWSC Tax form 990 for 2014.**

**Attachment F – Water Usage Numbers for 2014**

**Attachment G – Scope and Estimate from Lidstone Engineers**

**Note this scope and estimate will be signed as an agreement for future work if we are awarded the grant.**

**Attachment H – Secretary of State – Certificate of Good Standing.**