LOVELAND UTILITIES COMMISSION
REGULAR MEETING
February 19, 2014 - 4:00 p.m.
Service Center Board Room
200 North Wilson Avenue

AGENDA

4:00 pm - **CALL TO ORDER**

4:05 pm - **APPROVAL OF MINUTES - 1/15/2014**

CITIZENS REPORTS

4:10 pm - **CONSENT AGENDA**

1. 2014 Renewal of Service Contract for Liquid Waste Management for Hauling & Land Application of Biosolids – Michael McCrary
2. 7th Amendment to the 4th Interim Agreement for the Windy Gap Firming Project – Larry Howard

4:15 pm - **REGULAR AGENDA**

3. Contract Award for the Installation Contractor for the Meadows Transmission Main Replacement Project – Project #FLW04C – Tanner Randall
4. Draft of 2014 Goals – Steve Adams
5. Amendment to Paragraph 19.04.080.C of the Municipal Code – Scott Dickmeyer
6. City of Loveland Water Treatment Plant Hydroelectric Project – John McGee

4:45 pm - **STAFF REPORT**

7. Flood Update for the Water & Power Department – Steve Adams
8. Update on the Efficiency Works Program & School Grant Awards – Tracey Hewson
9. Quarterly Financial Report Update (4th Quarter 2013) – Jim Lees
10. Electric Legislative Update – Kim O'Field
11. Water Legislative Update – Scott Dickmeyer

6:15 pm - 12. **COMMISSION / COUNCIL REPORTS**

- City Council Advance – January 25, 2014
- Colorado Water Congress –January 29-31, 2014

13. **DIRECTOR'S REPORT** – Steve Adams

INFORMATION ITEMS

14. Water Supply Update – Scott Dickmeyer

ADJOURN

The City of Loveland is committed to providing an equal opportunity for citizens and does not discriminate on the basis of disability, race, color, national origin, religion, sexual orientation or gender. The City will make reasonable accommodations for citizens in accordance with the Americans with Disabilities Act. For more information, please contact the City's ADA Coordinator at bettie.greenberg@cityofloveland.org or 970-962-3319.

Commission Members Present: Dan Herlihey, David Schneider (Chair), Gary Hausman, Gene Packer (Vice Chair), Larry Roos, John Matis, John Rust Jr., Randy Williams

Alternate Commission Members Present: Daniel Greenidge

Council Liaison: Troy Krenning

City Staff Members: Bob Miller, Brieana Reed-Harmel, Darcy Hodge, Garth Silvernale, Greg Dewey, Gretchen Stanford, Jim Lees, Kim O'Field, Larry Howard, Michelle Stalker, Steve Adams, Sharon Citino, Tanner Randall, Victoria Mitchell, Christine Schraeder

Guest Attendance: Daryle Klassen

CALL TO ORDER: Dave Schneider called the meeting to order at 4:06 pm.

APPROVAL OF MINUTES: Dave asked for a motion to approve the minutes of the December 18, 2013 meeting.
Motion: John Rust Jr. made the motion to approve the minutes of the December 18, 2013 meeting.
Second: Dan Herlihey seconded the motion. The minutes were approved unanimously.

CITIZEN REPORTS: Daryle Klassen

Presentation of plaque to Daryle Klassen in appreciation for his public service especially as the City Council Liaison to the Loveland Utilities Commission.

CONSENT AGENDA

Item 1: CBT Market Price Consideration – Greg Dewey The City's cash-in-lieu fee is based primarily on the market price of one Colorado-Big Thompson Project (C-BT) unit as recognized by resolution of the Loveland Utilities Commission (LUC). On June 19, 2013 the LUC clarified with staff the process in which the LUC members desire to keep abreast of the changes to the market price of Colorado-Big Thompson Project units. On August 14, 2013, the LUC adopted Resolution R-4-2013U, changing the City's recognized price for CBT water to $17,500 per unit and establishing a Cash-In-Lieu fee of $18,375. Staff was also directed to closely monitor the situation and keep the LUC members updated monthly.

Recommendation: Adopt the attached Resolution R-1-2014U increasing the City's currently recognized price for C BT water from $17,500/unit to $18,500/unit.

Item 2: Proposed Intergovernmental Agreement (IGA) for U.S. Geological Survey (USGS) for Operation & Maintenance of Stream Gage and Precipitation Gage – John McGee Proposed Intergovernmental Agreement (IGA) for U.S. Geological Survey (USGS) for Operation & Maintenance of Stream Gage and Precipitation Gage .

Recommendation: Adopt a motion recommending that City Council approve the IGA and authorize the City Manager to sign it on the behalf of the City.

Item 3: 2013 Quarterly Goal Updates – Steve Adams This is a quarterly review of our progress on our 2013 utility goals and milestones report.

Recommendation: Discuss the presented information and approve the 4th Quarter 2013 LUC status report.

Motion: Gary Hausman made the motion to accept consent agenda items as written.
Second: John Matis seconded the motion. The motion was approved unanimously.

REGULAR AGENDA

Item 4: LUC 2013 Accomplishments and 2014 Goals – Steve Adams This item is to set new 2014 goals and review and update a staff compilation of the Utilities' 2013 accomplishments.

Recommendation: That the LUC approve the list of 2013 accomplishments and 2014 goals determined through discussion at this LUC meeting for use at the 2014 Boards & Commissions Summit with the following amendments:
•Add the goal: "Seek out opportunities to acquire additional shares of CBT water at reasonable prices."
•Change goal number 8 by striking out "and the" and adding to the end, "and the Comprehensive Plan."

Motion: Gary Hausman made the motion.
Second: Dan Herlihey seconded the motion. The motion was approved unanimously.

Comments: Board members expressed concern that the listed 2013 accomplishment do not adequately convey to the community the extent of work and sacrifice of Water and Power Department employees in responding to the effects of the floods. Board members also suggested improvements to the format of the document. Staff responded that the intended purpose of this particular document is to create an abbreviated list of goals and accomplishments that will fit on a single sheet of paper for the Boards and Commissions Summit. The board then suggested that staff create a summarized list of lessons learned from the flood for internal purposes in order to maintain a level of preparedness for unanticipated future events. Board members were invited to attend the January 28, 2014 City Council Study Session in which they will discuss the status of the flood relief and recovery efforts as well as review flood-related financials and schedules**.** Board and staff recommended making the changes outlined in the recommendation listed above.

Staff gave clarification about the Outage Management System and the different between the current budgeting process and priority based budgeting. To help board members interested in learning more about priority-based budgeting, staff will forward the presentation slides from the City Council Study Session on January 14, 2014 to board members. Gene Packer and Dave Schneider volunteered to represent the LUC at the priority based budgeting session meeting on February 19, 2014, as well as represent the LUC board at the Boards and Commissions Summit on February 27, 2014.

Board and staff discussed the security and risk factors of the Water and Power facilities and that during an emergency, staff would contact those trained to be first responders such as the police to handle situations if they were to arise.

STAFF REPORTS

Item 5: 2013 Flood Update for the Water & Power Department – Steve Adams Staff will provide an update on the status of flood recovery efforts.

Staff Report only. No action required.

Comments: Discussion ensued on the Utility Relief Program and how the City financially assisted utility customers who's services were affected by the flood. Accounting is keeping FEMA updated on actual repair costs. There will be a supplemental budget request for flood related projects that were not completed in 2013 which will go to City Council on February 18, 2014.

Discussion ensued on the dam removal and power restoration efforts under way in the canyon. Overall the City is further ahead of where they thought they would be in power restoration efforts, due to the assistance of contractors and through mutual aid agreements with neighboring communities all through a safe, and very organized process requiring a great deal of communication and coordination efforts. Discussion ensued on how the City is working to maximize the amount of reimbursable expenses with FEMA, the State and with CIRSA.

Staff gave an update on the progress of the water projects and talked about the work done to make the Dille Tunnel operational again. Board and staff discussed the emergency cleanup work that occurred along the river at the golf course, the risks of spring run-off to areas along the river, and the difficulty of ditch companies without municipal ties to afford repairs to their flood-damaged properties due to being ineligible for FEMA funding.

COMMISSION/COUNCIL REPORTS

Item 6: Commission/Council Reports

Randy Williams: None
John Rust Jr: He discussed how over the years he has seen things go into the river that should not have been put in there. He urged that we need to be more careful with what we are doing today to protect the river and not contribute to polluting rivers.
Dan Herlihey: none
John Matis: none
Gene Packer: He inquired whether staff has heard how the Loveland-Greeley ditch company will manage Lake Loveland due to all the silt? Staff responded that we have not heard anything yet. Shared that he's a member of a long-term flood recover group and that he is now certified instructor in First Aid, CPR and AED and is willing to do trainings if needed. He also shared that his father recently passed away.
Gary Hausman: None
Dave Schneider: He commented on surveying and utility locates performed near his property. Related that we may want to encourage to the County to monitor the water quality for possible water pollution, between the Wastewater Treatment Plant and his property at the Hershman's farm house property on South Lincoln with the types of items stored on the property such as tires and automotive contaminates. Staff responded that we will relay this information on and also shared that all of the flood plain was walked through and evaluate twice after the flood doing checks along the way and looking for hazardous materials.
Daniel Greenidge- none
Larry Roos – He discussed the impacts of the fertilizer plant explosion and a recent incident out east where a city's water supply was undrinkable for days due to a leak from a tank of a private business into the river and the need for greater oversight and regulations to avoid such situations from happening.

Council Report: Troy Krenning

Study Session – December 24, 2013

- Cancelled

Regular Meeting – January 7, 2014

- Adopted Resolution #R-2-2014, Approving an Intergovernmental Agreement between the City of Loveland, Colorado and Platte River Power Authority for SCADA Services.

  This is an administrative action. The proposed Intergovernmental Agreement (IGA) with Platte River Power Authority (PRPA) provides Supervisory Control and Data Acquisition (SCADA) services. SCADA support and operation is required as part of the electric distribution system. If Loveland does not pay PRPA for SCADA services we will be required to provide those services in-house which may necessitate requesting additional staff resources. The funds to be committed are $147,122 and will be billed monthly at the rate of $12,260.17. The funds have been appropriated and are available in the 2014 Water and Power Budget.

Study Session – January 14, 2014

- N/A

Comments: Discussed the controversy the City Council has had about the rules and regulations for reappointments of people serving on the City's boards and commissioners and requested feedback from the LUC on possible changes that should be made to the Boards & Commissions Handbook.

Board expressed differing opinions on whether it is appropriate to have an individual serve on more than one of the City's boards or commissions concurrently. The LUC has required an application and interview process each time a board member desires to serve another term and the board members expressed that they felt like this is a good process to go through. Board members suggested that the City Council should become familiar with what people in the past desired their boards and commissions to accomplish by looking at previous descriptions, goals, and parameters, prior to having City Council work on updating the handbook. They urged that the main point of the policy should be to get the best people on boards where they can make the best decisions for the community.

DIRECTOR'S REPORT

Item 7: Director's Report – Steve Adams

Comments: Larry Roos will stay down in Denver on Wednesday night for CWC

INFORMATION ITEMS

Item 8: **Water Supply Update – Larry Howard** Projection for water supply in 2013.

Information report only. No action required.

ADJOURN The meeting was adjourned at 6:18 pm. The next LUC Meeting will be February 19, 2014 at 4:00 pm.

Respectfully submitted,

Michelle Stalker
Recording Secretary
Loveland Utilities Commission

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 1
MEETING DATE: 2/19/2014
SUBMITTED BY: Michael McCrary, Wastewater Treatment Plant Manager MMC

TITLE: 2014 Renewal of Service Contract for Liquid Waste Management for Hauling & Land Application of Biosolids

DESCRIPTION:
The not-to-exceed total in the LWM biosolids hauling contract for 2013 is $566,000. Because this contract exceeds $500,000 LUC approval is needed to execute this contract. This administrative action is to provide for this approval.

SUMMARY:
The unit cost for hauling biosolids in 2013 was $0.0322/Gallon. An increase in unit cost was negotiated for 2014. After a 2.8% increase, in line with the CPI Index for the Denver-Greeley region, the unit cost for 2014 is $0.0331/Gallon.

$566,000 was budgeted for biosolids disposal in 2014 in the desire to capture this expected increase in unit volume cost. This is the amount we are using as the not-to exceed amount in the 2013 Biosolids Disposal contract with Liquid Waste Management.

RECOMMENDATION:
Adopt a motion approving the 2014 Contract for Liquid Waste Management for Hauling and Land Application of Biosolids with a not-to-exceed contract price of $566,000 and authorizing the City Manager to execute the renewal for service contract.

REVIEWED BY DIRECTOR: MS for SA

City of Loveland

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AGENDA ITEM: 2
MEETING DATE: 2/19/2014
SUBMITTED BY: Scott Dickmeyer, Staff Engineer – Water Resources

TITLE: Windy Gap Firming Project (WGFP), Seventh Amendment to the Fourth Interim Agreement

DESCRIPTION:
The requested funds in the amount of $162,451 will cover Loveland's proportional share of the anticipated costs to complete the environmental permitting and mitigation processes and move the project forward to the beginning of the next phase, engineering design. The additional funds are necessary because of delays and associated costs to complete the Reclamation process.

SUMMARY:
A Seventh Amendment to the Fourth Interim Agreement is necessary with the WGFP Participants, including Loveland, to complete the National Environmental Policy Act (NEPA) process and negotiate a Carriage Contract with the Bureau of Reclamation. The Final Environmental Impact Study (FEIS) is anticipated soon. The money raised is needed to receive federal approvals from the Bureau of Reclamation for the official Record of Decision (ROD) and U.S. Army Corps of Engineers 404 permit to build. The project also needs State approval from the Colorado Department of Public Health and Environment for a 401 water quality certification. A total request of $2,000,000 is involved from all the Project Participants, and $162,451 represents Loveland's 8.12% interest in the Project (7,000 AF for Loveland / 86,180 AF total).

A memo from Jeff Drager, Project Manager, is attached, explaining the current status of the project and giving a detailed explanation of the additional tasks that have been performed to support the completion of the FEIS.

Attached for the commissioners' review is a draft copy of the proposed Seventh Amendment to Fourth Interim Agreement Between the Municipal Subdistrict, Northern Colorado Water Conservancy District Windy Gap Firming Project Water Activity Enterprise, and City of Loveland, Water Enterprise for Participation in the Windy Gap Firming Project, (Agreement) with Exhibits and the proposed City Council Resolution. The Agreement requests $162,451 from Loveland for work to be done during 2014 leading up to a favorable Record of Decision in 2014.

This additional funding does not represent entry into a new phase of the project. The activities of the Fourth Phase, which are a continuation of the activities started in the Third Phase, will continue with this funding. By signing the Agreement, Loveland agrees to pay this amount to the Windy Gap Firming Enterprise on or before March 31, 2014.

In March of 2014 the city will be invoiced its share of an agreement made with west slope irrigators, via special assessment, with payment due on April 1st of this year. The above stated $2 million cover's Loveland's Windy Gap Firming Project share of the west slope agreement, however it does not include its Windy Gap Participant Share. We have not yet received the invoice for the special assessment.

RECOMMENDATION:
Adopt a motion recommending that the City Council adopt a Resolution approving and authorizing the execution of a Seventh Amendment to the Fourth Interim Agreement with the Municipal Subdistrict, Northern Colorado Water Conservancy District Windy Gap Firming Project Water Activity Enterprise, for participation in the Windy Gap Firming Project, and authorizing the Mayor and City Clerk to execute and enter into the Seventh Amendment on behalf of the City of Loveland.

REVIEWED BY DIRECTOR: WS for SA

ATTACHMENTS:
Attachment A: Windy Gap Firming Project Seventh Amendment to Fourth Interim Agreement
Attachment B: Allocation of Costs for Fourth Interim Agreement (Phase 4)
Attachment C: Memo on the Current Status and Funding Requirements for Windy Gap Firming Project

Attachment A

SEVENTH AMENDMENT TO FOURTH INTERIM AGREEMENT BETWEEN THE MUNICIPAL SUBDISTRICT, NORTHERN COLORADO WATER CONSERVANCY DISTRICT,WINDY GAP FIRMING PROJECT WATER ACTIVITY ENTERPRISE, AND

_____

FOR PARTICIPATION IN THE
WINDY GAP FIRMING PROJECT

This Seventh Amendment is made and entered into as of _____, 2014, by and between the Municipal Subdistrict, Northern Colorado Water Conservancy District (a quasi-municipal entity and political subdivision of the State of Colorado) (the "Subdistrict"), acting by and through its Windy Gap Firming Project Water Activity Enterprise (a government-owned business within the meaning of Article X, Section 20(2)(d), of the Colorado Constitution, organized pursuant to C.R.S. '' 37-45.1-101 et seq.), whose address is 220 Water Avenue, Berthoud, Colorado 80513 (the "WGF Enterprise"), and _____, whose address is _____ ("Participant"), for the purpose of amending the Fourth Interim Agreement between the parties (the "Agreement").

1. The Agreement, as previously amended, is amended by deletion of paragraph 3 and the substitution of the following new paragraph 3.

> 3. Participant agrees to provide to the WGF Enterprise funds for its pro rata share of the costs necessary to complete the Fourth Phase of the Project.
>
> A. The WGF Enterprise estimated that Participant's pro rata share of the costs of the Fourth Phase of the Project was $_____for the 2006 calendar year. Participant paid the WGF Enterprise its pro rata share of the 2006 calendar year costs.
>
> B. The WGF Enterprise estimated that Participant's pro rata share of the costs of the Fourth Phase of the Project was $_____ for the 2008 calendar year. Participant paid the WGF Enterprise its pro rata share of the 2008 calendar year costs.
>
> C. The WGF Enterprise estimated that Participant's pro rata share of the costs of the Fourth Phase of the Project was $_____ for the 2009 calendar year. Participant paid the WGF Enterprise its pro rata share of the 2009 calendar year costs.
>
> D. The WGF Enterprise estimated that Participant's pro rata share of the cost of the Fourth Phase of the Project was $_____ for the 2010 calendar year. Participant paid the WGF Enterprise its pro rata share of the 2010 calendar year costs.

E. The WGFP Enterprise did not request that Participant pay any share of the cost of the Fourth Phase of the Project during 2011.

F. The WGF Enterprise estimated that Participant's pro rata share of the cost of the Fourth Phase of the Project was $_____ for the first half of the 2012 calendar year. Participant paid the WGF Enterprise its pro rata share of the estimated 2012 calendar year costs.

G. The WGF Enterprise estimated that Participant's pro rata share of the cost of the Fourth Phase of the Project was $_____ for the second half of the 2012 calendar year. Participant paid the WGF Enterprise its pro rata share of the estimated second half of the 2012 calendar year costs.

H. The WGFP Enterprise did not request that Participant pay any share of the cost of the Fourth Phase of the Project during 2013.

F. The WGFP Enterprise estimates that Participant's pro rata share of the cost of the Fourth Phase of the Project is $_____ for the 2014 calendar year for remaining environmental and permitting tasks, contracting with U.S. Bureau of Reclamation, and other obligations related to mitigation and environmental enhancement. Participant will pay the WGF Enterprise its pro rata share of the 2014 calendar year costs on or before March 31, 2014. This estimated cost will not be increased or exceeded without the prior approval of Participant.

If the Fourth Phase of the Project cannot be completed within these estimated costs, the WGF Enterprise is not obligated to complete the Fourth Phase of the Project for the benefit of Participant unless sufficient additional pro rata funds as determined by the WGF Enterprise are provided by Participant. Attached hereto as Exhibits A, B, C, D, E F, and G are tables showing the pro rata share of the costs of the Project for each Participant for 2006, 2008, 2009, 2010, January 2012, September 2012 and 2014 based upon then-current allocations of capacity in the Project.

2. All other terms and conditions of the Agreement shall continue in full force and effect except as specifically amended herein.

_____
_____

MUNICIPAL SUBDISTRICT, NORTHERN COLORADO WATER CONSERVANCY DISTRICT, ACTING BY AND THROUGH THE WINDY GAP FIRMING PROJECT WATER ACTIVITY ENTERPRISE

By:_____

Name:_____

Title:_____

By:_____

Name:_____

Title:_____

Attachment B

EXHIBIT A

Windy Gap Firming Project
Allocation of Costs for Fourth Interim Agreement (Phase 4)

Estimated NEPA Costs due in 2006: $ 1,000,000

Participant	Requested Storage Volume (af)		Share of NEPA Cost [(1)]
Broomfield	25,200	$	289,057
CWCWD	330	$	3,785
Erie	6,000	$	68,823
Evans	1,750	$	20,073
Fort Lupton	1,050	$	12,044
Greeley	7,000	$	80,294
Lafayette	1,800	$	20,647
Little Thompson WD	4,850	$	55,632
Longmont	13,000	$	149,117
Louisville	2,700	$	30,970
Loveland	6,000	$	68,823
Middle Park	3,000	$	-
PRPA	13,000	$	149,117
Superior	4,500	$	51,617
TOTAL	90,180	$	999,999

NOTES:

(1) Costs allocated pro rata based upon requested storage volume with Middle Park excluded.

(2) Loveland's requested storage volume was increased from 6,000 af to 7,000 af per Amendment 2, August 2008

(3) PRPA's requested storage volume was decreased from 13,000 af to 12,000 af per Amendment 2, August 2008

EXHIBIT B

Windy Gap Firming Project
Allocation of Costs for Amendment to Fourth Interim Agreement (Phase 4)

Estimated NEPA Costs due in January 2008: $ 1,000,000

Participant	Requested Storage Volume (af)		Share of NEPA Cost [(1)]
Broomfield	25,200	$	289,057
CWCWD	330	$	3,785
Erie	6,000	$	68,823
Evans	1,750	$	20,073
Fort Lupton	1,050	$	12,044
Greeley	7,000	$	80,294
Lafayette	1,800	$	20,647
Little Thompson WD	4,850	$	55,632
Longmont	13,000	$	149,117
Louisville	2,700	$	30,970
Loveland	6,000	$	68,823
Middle Park	3,000	$	-
PRPA	13,000	$	149,117
Superior	4,500	$	51,617
TOTAL	90,180	$	999,999

NOTES:

(1) Costs allocated pro rata based upon requested storage volume with Middle Park excluded.

(2) Loveland's requested storage volume was increased from 6,000 af to 7,000 af per Amendment 2, August 2008

(3) PRPA's requested storage volume was decreased from 13,000 af to 12,000 af per Amendment 2, August 2008

EXHIBIT C

Windy Gap Firming Project
Allocation of Costs for Third Amendment to Fourth Interim Agreement (Phase 4)

Estimated NEPA Costs due in June 2009: $ 1,000,000

Participant	Requested Storage Volume (af)		Share of NEPA Cost [(1)]
Broomfield	25,200	$	289,057
CWCWD	330	$	3,785
Erie	6,000	$	68,823
Evans	1,750	$	20,073
Fort Lupton	1,050	$	12,044
Greeley	7,000	$	80,294
Lafayette	1,800	$	20,647
Little Thompson WD	4,850	$	55,632
Longmont	12,000	$	137,646
Louisville	2,700	$	30,970
Loveland	7,000	$	80,294
Middle Park	3,000	$	-
PRPA	12,000	$	137,646
Superior	4,500	$	51,617
TOTAL	89,180	$	988,528

NOTES:

(1) Costs allocated pro rata based upon requested storage volume with Middle Park excluded.

(2) Loveland's requested storage volume was increased from 6,000 af to 7,000 af per Amendment 2, August 2008

(3) PRPA's requested storage volume was decreased from 13,000 af to 12,000 af per Amendment 2, August 2008

EXHIBIT D

Windy Gap Firming Project
Allocation of Costs for Fourth Amendment to Fourth Interim Agreement (Phase 4)

Estimated NEPA Costs due in August 2010: $ 1,000,000

Participant	Requested Storage Volume (af)		Share of NEPA Cost [(1)]
Broomfield	25,200	$	289,057
CWCWD	330	$	3,785
Erie	6,000	$	68,823
Evans	1,750	$	20,073
Fort Lupton	1,050	$	12,044
Greeley	7,000	$	80,294
Lafayette	1,800	$	20,647
Little Thompson WD	4,850	$	55,632
Longmont	12,000	$	137,646
Louisville	2,700	$	30,970
Loveland	7,000	$	80,294
Middle Park	3,000	$	-
PRPA	12,000	$	137,646
Superior	4,500	$	51,617
TOTAL	89,180	$	988,528

NOTES:

(1) Costs allocated pro rata based upon requested storage volume with Middle Park excluded.

(2) Loveland's requested storage volume was increased from 6,000 af to 7,000 af per Amendment 2, August 2008

(3) PRPA's requested storage volume was decreased from 13,000 af to 12,000 af per Amendment 2, August 2008

EXHIBIT E

Windy Gap Firming Project
Allocation of Costs for Fifth Amendment to Fourth Interim Agreement (Phase 4)

Estimated NEPA Costs due January, 2012: $ 1,000,000

Participant	Requested Storage Volume (af)		Share of NEPA Cost [(1)]
Broomfield	25,200	$	292,411
CWCWD	330	$	3,829
Erie	6,000	$	69,622
Evans	1,750	$	20,306
Fort Lupton	1,050	$	12,184
Greeley	7,000	$	81,225
Lafayette	1,800	$	20,887
Little Thompson WD	4,850	$	56,278
Longmont	12,000	$	139,243
Louisville	2,700	$	31,330
Loveland	7,000	$	81,225
Middle Park	3,000	$	-
PRPA	12,000	$	139,243
Superior	4,500	$	52,216
TOTAL	89,180	$	999,999

NOTES:

(1) Costs allocated pro rata based upon requested storage volume with Middle Park excluded.

EXHIBIT F

Windy Gap Firming Project
Allocation of Costs for Sixth Amendment to Fourth Interim Agreement (Phase 4)

Estimated NEPA Costs due October, 2012: $ 1,000,000

Participant	Requested Storage Volume (af)		Share of NEPA Cost [(1)]
Broomfield	25,200	$	292,411
CWCWD	330	$	3,829
Erie	6,000	$	69,622
Evans	1,750	$	20,306
Fort Lupton	1,050	$	12,184
Greeley	7,000	$	81,225
Lafayette	1,800	$	20,887
Little Thompson WD	4,850	$	56,278
Longmont	12,000	$	139,243
Louisville	2,700	$	31,330
Loveland	7,000	$	81,225
Middle Park	3,000	$	-
PRPA	12,000	$	139,243
Superior	4,500	$	52,216
TOTAL	89,180	$	999,999

NOTES:

(1) Costs allocated pro rata based upon requested storage volume with Middle Park excluded.

EXHIBIT G

Windy Gap Firming Project
Allocation of Costs for Seventh Amendment to Fourth Interim Agreement (Phase 4)

Estimated NEPA Costs due March, 2014: $ 1,000,000

Participant	Requested Storage Volume (af)		Share of NEPA Cost [(1)]
Broomfield	25,200	$	292,411
CWCWD	330	$	3,829
Erie	6,000	$	69,622
Evans	1,750	$	20,306
Fort Lupton	1,050	$	12,184
Greeley	7,000	$	81,225
Lafayette	1,800	$	20,887
Little Thompson WD	4,850	$	56,278
Longmont	12,000	$	139,243
Louisville	2,700	$	31,330
Loveland	7,000	$	81,225
Middle Park	3,000	$	-
PRPA	12,000	$	139,243
Superior	4,500	$	52,216
TOTAL	89,180	$	999,999

NOTES:

(1) Costs allocated pro rata based upon requested storage volume with Middle Park excluded.

Attachment C

Municipal Subdistrict
Northern Colorado Water Conservancy District

Memorandum

Date: February 4, 2014

To: Windy Gap Firming Project Participants

From: Jeff Drager

Subject: Current Status and Funding Requirements for Windy Gap Firming Project

This memorandum summarizes the current status of the WGFP work, budget and schedule and outlines short-term and long-term funding requirements.

Project Work Status
The NEPA process was initiated in 2003 by the U.S. Bureau of Reclamation acting as the lead federal agency. Public Scoping Meetings were held in Granby, Loveland, and Lyons in September and October 2003 and a Public Scoping Report was published on December 19, 2003.

The Draft Environmental Impact Statement (DEIS) was issued in August 2008 and the comment period closed in December 2008. After the DEIS was issued, Reclamation and ERO Resources, a third-party contractor, completed the response to the comments received and prepared the Final Environmental Impact Statement (FEIS). Reclamation issued the FEIS in November 2011, which included recommendations from the Fish and Wildlife Mitigation Plan that was approved by the Wildlife Commission and the Colorado Water Conservation Board. In addition, the United States Fish and Wildlife Service issued a Fish and Wildlife Coordination Act Report in March of 2012 that agrees that the measures contained in the FEIS (including the Fish and Wildlife Mitigation Plan) to avoid, minimize, and mitigate impacts to fish and wildlife resources adequately address the identified impacts.

Since the last request for funding in September, 2012 several major work items have been completed:

- Grand County approved a 1041 permit, which is a major milestone in the permitting process. At the same time, the county approved several related agreements, which resulted from nearly four years of negotiation, formal reviews and public comment sessions involving the Municipal Subdistrict, Grand County, the Colorado River District, the Middle Park Water Conservancy District, the Northwest Colorado Council of Governments. One agreement, the Windy Gap Bypass Funding Agreement, resolved issues with a group of downstream landowners (Upper Colorado River Alliance), and Trout Unlimited.
- In June of 2013, the Subdistrict reached an agreement with a group of downstream ranchers regarding irrigation diversion structures installed by Northern Water as part of the C-BT project and improved by the Subdistrict as part of the1980 Windy Gap settlement agreements. The 2013 agreement releases the Subdistrict from any future obligations regarding the irrigation diversions and resolved a claim that the Subdistrict had not complied with the terms of the 1980 1041 permit for the original Windy Gap Project. The agreement requires WGFP participants to make payments of $866,667 in 2014 and $1,133,333 in 2015.

- On October 23, 2013 Northern Water executed a Supplement to their C-BT Project Repayment Contract that included commitments by Northern Water and Reclamation to address issues related to reduced clarity in Grand Lake. The Subdistrict is not a party to the clarity agreement but Reclamation required execution of the clarity agreement before beginning Windy Gap Firming Project carriage contract negotiations.

In addition, Subdistrict staff has worked for much of 2013 with staff of the Colorado Water Quality Control Division to prepare the application for a 401 certification that is a requirement for the Corps of Engineers' Section 404 permit.

Work Required to Complete Permitting

After completion of the FEIS, there are still several tasks to complete the NEPA/permitting process, including:

- Negotiation of a revised conveyance (carriage) contract with Reclamation to allow operation of the WGFP.
- Issuance of a Record of Decision (ROD) by Reclamation, which will authorize Reclamation to take necessary actions to implement the Preferred Alternative in the FEIS.
- Issuance of a 404 Permit by the Corps of Engineers with 401 Certification by the State of Colorado

When the Final EIS was released in November 2011, Reclamation estimated that the ROD would be issued in January 2012 and the contracts could be completed by mid-2012. However, in early 2012 the process was slowed down by inquiries from the Department of Interior and a letter from EPA indicating that they still had concerns with the project. Reclamation changed their plan and now requires that the carriage contract negotiations be completed prior to issuing the ROD. In addition, the Department of interior expressed concerns regarding the clarity issues in Grand Lake. The carriage contract negotiations were put on hold while we finalized the 1041 permitting process with Grand County (1041 Permit was approved in December 2012) and an agreement regarding Grand Lake clarity was completed between Northern Water and Reclamation. This clarity agreement was executed on October 23, 2013. Our current goal is to complete the process with Reclamation by the fall of 2014. It is anticipated that the 404 permit can be issued shortly after the Reclamation process is complete dependent upon the 401 Certification that must be issued by the Colorado Department of Public Health and Environment. EPA will also have input to the Corps 404 Permit and could delay the process but we are hopeful that with resolution of the clarity issue and Windy Gap Bypass issue that EPA's primary concerns have been addressed.

Project Budget Status

Attachment 1 provides a summary of project revenues and expenditures for the period since August 2012, when the last update was provided and an additional $1,000,000 in funding by the participants was requested. The currently available funding is about $450,000. Because of unforeseen expenses and delays, and the need for additional funds for near-term expenses, I have requested that participants provide an additional $2,000,000 in funding contributions by March 31, 2014 to allow completion of the permitting process. The primary expenses since the last funding request relate to the significant effort by Subdistrict staff and legal counsel to address these issues and prepare the application and hearing materials for the Grand County 1041 effort and the initiation of the 401 certification process with the Colorado Water Quality Control Division. There have also been expenses of $84,000 for our nutrient mitigation agreement with C Lazy U

Ranch, $78,000 in 1041 permitting fees from Grand County and $80,000 in water quality monitoring to set the baseline for nutrient mitigation.

The need for additional funds is related to the delays and associated costs to complete the Reclamation process. Specific items that will require additional funds beyond the currently available $450,000 include:

- Reclamation's costs to complete the NEPA permitting and contract negotiations. Reclamation previously estimated these costs to be over $400,000 but we are hopeful that the final total will be less.

- $250,000 to complete a study of the Windy Gap Bypass channel. This study was a component of the Fish and Wildlife Mitigation Plan approved by the Colorado Wildlife Commission and was originally scheduled to begin after all permits have been acquired. However, because of requests by DOI, EPA and Grand County (and other West Slope stakeholders), the Subdistrict has been forced to agree to begin this study before permits are completed. A draft of this study has been completed and our payment will be due in March but we anticipate that additional funding will be required to finish the study and meet the desire of the State of Colorado and west slope stakeholders to continue progress on this issue.

- Continuing obligations under an agreement with C Lazy U Ranch to provide funding for nutrient mitigation and reduction efforts on the ranch which may occur before permits are acquired.

- A required payment of $866,667 in 2014 for the rancher settlement previously mentioned.

- Funding for District staff and legal counsel to complete the 401 certification and 404 permit process.

As previously noted, for the reasons discussed above, I am requesting an additional $2,000,000 in funding by March 31, 2014 to allow the project to move forward and complete permits and move into the next phase. I recognize that this was not expected, but it is important to provide sufficient funds to keep the project moving forward as we approach critical milestones in completion of the permitting process. I have attempted to keep these additional funding requests as small as possible to minimize impacts on Participant budgets, but that has resulted in multiple funding requests. This funding request is larger than previous requests due to the requirement for a large payment for the rancher settlement and other mitigation commitments.

Following completion of the permitting process, we will begin the design phase, which will require additional funding from the participants. The construction cost estimates that were prepared by Boyle Engineering in December 2007 have been reviewed and construction costs and the overall project budget are not expected to change significantly. Attachment 2 provides a revised cash flow projection based on the updated 2007 construction cost estimate. Note that contributions to date have been almost $16 million, which includes $4 million for purchase of the Chimney Hollow Reservoir property. Because of the delays in permitting, significant funding requirements for design and construction have been delayed from previous projections.

Windy Gap Firming Project
Summary of Project Revenues and Expenditures
August 1, 2012 - January 31, 2014

Beginning Cash Balance :		**$ 250,713.37**
Project Revenues		
Capital Conributions from Participants	$ 975,864.00	
Interest Income	$ 4,460.54	
Other (loan proceeds)	$ -	
Total Cash Inflows:		***$ 980,324.54***
Project Expenditures:		
Subdistrict Labor and Expenses	$ 208,123.73	
Legal - Trout law firm	$ 227,100.20	
Reclamation MOU cash advances	$ 51,000.00	
Professional Services:	$ -	
ERO Resources	$ 52,331.42	
Pinyon Environmental	$ 72,489.08	
Ecological Resource Consultants	$ 2,520.49	
AECOM	$ 3,328.00	
Black & Veatch	$ -	
Other	$ 81,771.96	
Subtotal - Professional Services:	$ 212,440.95	
C Lazy U Ranch Mitigation Agreement expenses	$ 84,721.82	
Loan Repayment	$ 1,869.86	
Total Expenditures:		***$ 785,256.56***
Ending Cash Balance :		***$ 445,781.35***

Note: Balances are approximate based on best estimate of labor and overhead costs.

PRELIMINARY

Windy Gap Firming Project
Projected Cash Flow - Preliminary Estimate with Mitigation and Enhancement
April 24, 2013

Estimate of Total Project Cost:

Construction/Construction Management	*$ 237,500,000*		
Design	*$ 14,000,000*		
Subdistrict (Legal, Admin, Land and Permitting)	*$ 19,000,000*	*$ 1,037,886.00*	= Unallocated portion
Mitigation and Enhancement	*$ 16,000,000*		
Total Project Cost:	***$ 286,500,000***		

Participant	Units Owned	Requested Storage Volume (af)	Total Participant Contributions Through 2012	2014	2015			2016			2017	2018	2019	Total Future Contributions	Estimated Total Project Contributions
				NEPA/Mitigation	*Design*	*Mitigation*	*2014 Total*	*Design*	*Mitigation*	*2015 Total*	*Construction/CM*				
				$ 2,000,000	***$ 10,000,000***	***$ 2,123,891***	***$ 12,123,891***	***$ 4,259,472***	***$ 9,464,983***	***$ 13,724,455***	***$ 242,689,540***				
Broomfield	56	25,200	$ 3,898,108	$ 584,822	$ 2,924,112	$ 621,050	$ 3,545,162	$ 1,245,517	$ 2,767,667	$ 4,013,185	$ 70,965,147	$ -	$ -	$ 79,108,317	$ 83,006,425
CWCWD	1	330	$ 55,625	$ 7,658	$ 38,292	$ 8,133	$ 46,425	$ 16,310	$ 36,243	$ 52,554	$ 929,306	$ -	$ -	$ 1,035,942	$ 1,091,568
Erie	14	6,000	$ 909,811	$ 139,243	$ 696,217	$ 147,869	$ 844,086	$ 296,552	$ 658,968	$ 955,520	$ 16,896,464	$ -	$ -	$ 18,835,313	$ 19,745,125
Evans	0	1,750	$ 200,584	$ 40,613	$ 203,063	$ 43,128	$ 246,192	$ 86,494	$ 192,199	$ 278,693	$ 4,928,135	$ -	$ -	$ 5,493,633	$ 5,694,217
Fort Lupton	3	1,050	$ 72,544	$ 24,368	$ 121,838	$ 25,877	$ 147,715	$ 51,897	$ 115,319	$ 167,216	$ 2,956,881	$ -	$ -	$ 3,296,180	$ 3,368,723
Greeley	64	7,000	$ 1,926,063	$ 162,451	$ 812,253	$ 172,514	$ 984,767	$ 345,977	$ 768,796	$ 1,114,774	$ 19,712,541	$ -	$ -	$ 21,974,532	$ 23,900,595
Lafayette	1	1,800	$ 312,143	$ 41,773	$ 208,865	$ 44,361	$ 253,226	$ 88,966	$ 197,691	$ 286,656	$ 5,068,939	$ -	$ -	$ 5,650,594	$ 5,962,737
Little Thompson WD	0	4,850	$ 335,083	$ 112,555	$ 562,776	$ 119,527	$ 682,303	$ 239,713	$ 532,666	$ 772,379	$ 13,657,975	$ -	$ -	$ 15,225,212	$ 15,560,295
Longmont	80	12,000	$ 2,526,928	$ 278,487	$ 1,392,434	$ 295,738	$ 1,688,172	$ 593,103	$ 1,317,937	$ 1,911,040	$ 33,792,927	$ -	$ -	$ 37,670,627	$ 40,197,555
Louisville	6	2,700	$ 469,182	$ 62,660	$ 313,298	$ 66,541	$ 379,839	$ 133,448	$ 296,536	$ 429,984	$ 7,603,409	$ -	$ -	$ 8,475,891	$ 8,945,073
Loveland	40	7,000	$ 1,716,871	$ 162,451	$ 812,253	$ 172,514	$ 984,767	$ 345,977	$ 768,796	$ 1,114,774	$ 19,712,541	$ -	$ -	$ 21,974,532	$ 23,691,403
Middle Park WCD	0	-	$ 30,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 30,000
PRPA	160	12,000	$ 2,445,330	$ 278,487	$ 1,392,434	$ 295,738	$ 1,688,172	$ 593,103	$ 1,317,937	$ 1,911,040	$ 33,792,927	$ -	$ -	$ 37,670,627	$ 40,115,957
Superior	15	4,500	$ 1,063,843	$ 104,433	$ 522,163	$ 110,902	$ 633,065	$ 222,414	$ 494,226	$ 716,640	$ 12,672,348	$ -	$ -	$ 14,126,485	$ 15,190,328
TOTAL	**440**	**86,180**	**$ 15,962,114**	**$ 2,000,000**	**$ 10,000,000**	**$ 2,123,891**	**$ 12,123,891**	**$ 4,259,472**	**$ 9,464,983**	**$ 13,724,455**	**$ 242,689,540**	**$ -**	**$ -**	**$ 270,537,886**	**$ 286,500,000**

Notes:

1. Cost allocation based on percent of total requested storage volume
2. Project Costs based on AECOM's December 2011 Cost Estimate for 90,000 AF Earthfill/Rockfill Dam adjusted to 87,000 AF dam with Mitigation, Enhancement and Subdistrict costs added.
3. These estimates do not include an allowance for cost escalation between 2011 and the beginning of construction.
4. Mitigation Costs include Enhancements and are based on April 2013 estimates, which include all requirements from EIS, FWMP, FWEP, 1041 Permit, IGA, and Rancher Settlement.
5. Unspent portion of Subdistrict costs (approx. $2M) for legal, admin, permitting are allocated 25% to Design and 75% to Construction
6. Projections assume issuance of all permits and approvals in early 2014.

Unit Cost: $ 3,324

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 3
MEETING DATE: 2/19/2014
SUBMITTED BY: Tanner Randall, Civil Engineer TR

TITLE: Contract Award for the Installation Contractor for the Meadows Transmission Main Replacement Project – Project #FLW04C

DESCRIPTION:
Due to the damage associated with the flooding in September 2013 to the 48" steel, 36" steel, and 20" cast iron water transmission mains, downstream of the water treatment plant (WTP), the City received bids from pre-qualified installing contractors to re-establish capacity and redundancy to convey water from the WTP to customers. The project's bid opening was on Thursday, February 13, 2014.

SUMMARY:
The project includes replacement and repair to the water transmission system in two phases. Phase 1 is slated to be completed during the spring of 2014 and includes the installation of approximately 4,000 linear feet (LF) of 48" diameter welded steel pipe, two valve vaults, two combination air release valve vaults, and significant grading and rip rap installation designed to protect water transmission lines from future damage that could occur from flooding events. Phase 2 of the project is slated to begin in October 2014 and involves replacement of 665 LF of the existing 48" welded steel pipe that was damaged during the flood, one valve vault, and re-vegetation. The design has garnered the approval of the Larimer County Flood Review Board who has made a recommendation of approval to the Larimer County Commissioners. Between the two phases all of the area disturbed during the September 2013 flooding and subsequent repair work will be re-vegetated. When the project is completed the City will once again have redundancy in conveying water.

RECOMMENDATION:
Staff will present their findings and recommendations at the February 19, 2014 LUC meeting.

REVIEWED BY DIRECTOR: MS for SA

City of Loveland

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WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 4
MEETING DATE: 2/19/2014
SUBMITTED BY: Steve Adams, Director MS for SA

TITLE: Draft of 2014 Goals

DESCRIPTION:
This item is to set the 2014 goals for Loveland Water and Power.

SUMMARY:
This is the time to discuss the goals the LUC would like to pursue in 2014. The LUC may choose to pursue additional goals for 2014 in areas we desire or anticipate progress in the coming year. Staff has compiled a draft of 2014 goals as follows which includes feedback from the discussion during the January 2014 LUC meeting on goals to submit for the Boards and Commission Summit:

1. Implement Priority-Based Budgeting
2. Support the transition of the City's payroll processing to Innoprise software
3. Provide support for Coincident Peak Demand customers to maximize customer savings
4. Adopt the changes to the Requirements for Electric Service Book
5. Adopt an updated Electric Extension Policy and amend the Water Extension Policy
6. Implement an LED streetlight policy
7. Discuss the possibility of increasing renewable energy credits.
8. Support the Planning Department's Comprehensive planning efforts in the following areas:
    a) Master Plan for Development of Highway 287 in Loveland
    b) Master Plan for Development of the Highway 402 Corridor
    c) Downtown Revitalization Efforts
    d) Comprehensive Plan
9. Create a Strategic Plan for the Water, Wastewater and Power Utilities
10. Continue the 2013 Flood restoration and service recovery efforts
11. Further develop the Asset Management Program in the Water and Wastewater Utilities
12. Develop a more robust Water Division Safety Program with increased accountability and program measurement
13. Redefine the Key Accounts program
14. Complete a residential and commercial customer survey to help define satisfaction and direction for Loveland Water and Power
15. Update and adopt the Sustainability Plan and Integrated Resource Plan
16. Work with Platte River Power Authority to Implement the Strategic Plan
17. Seek out opportunities to acquire additional shares of CBT water at reasonable prices

RECOMMENDATION:
That the LUC approve the list of 2014 goals as determined through discussion at this LUC meeting.

REVIEWED BY DIRECTOR: MG for SA

City of Loveland

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WATER & POWER DEPARTMENT
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AGENDA ITEM: 5
MEETING DATE: 2/19/2014
SUBMITTED BY: Scott Dickmeyer, Staff Engineer – Water Resources

Larry Howard for S.D.

TITLE: Amendment to Paragraph 19.04.080.C of the Municipal Code

DESCRIPTION:
An Ordinance to amend paragraph 19.04.080.C of Loveland's Municipal Code to strike out Barnes and Chubbuck ditches under the definition of, "ditch water rights"

SUMMARY:
In 2010, as part of the settlements in the 2002CW392 Decree, the City signed an agreement with the Greeley-Loveland Irrigation Company (GLIC) to no longer change Barnes and Chubbuck ditch inches in water court. Because the City can no longer change additional Barnes and Chubbuck inches to municipal use, the City stopped accepting water from these two ditches to satisfy raw water requirements for development. This amendment cleans up paragraph 19.04.080.C by striking Barnes and Chubbuck ditches from the definition of, "ditch water rights."

RECOMMENDATION:
Adopt a motion recommending that the City Council approve an ordinance modifying paragraph 19.04.080.C of Loveland's Municipal Code to remove the words "Barnes" and "Chubbuck."

REVIEWED BY DIRECTOR: MS for SH

ATTACHMENTS:
Ordinance Amending the Loveland Municipal Code at Section 19.04.080

FIRST READING _____

SECOND READING _____

ORDINANCE NO. _____

AN ORDINANCE AMENDING THE LOVELAND MUNICIPAL CODE AT SECTION 19.04.080 CONCERNING THE CITY'S ACCEPTANCE OF BARNES DITCH AND CHUBBUCK DITCH WATER RIGHTS

WHEREAS, on January 25, 2010, the City entered into an agreement ("Settlement Agreement") with the Greeley Loveland Irrigation Company to settle certain disputes between them arising out of the City's water court application in Case Number 02CW392, and the Title Agreement and Operating Agreement between them dated June 22, 1977; and

WHEREAS, the Greeley Loveland Irrigation Company owns the Barnes Ditch and the Chubbuck Ditch through which it delivers contractual water entitlements known as Barnes contract inches and Chubbuck contract inches to the owners of said entitlements; and

WHEREAS, the Settlement Agreement prohibits the City from including Barnes contract inches or Chubbuck contract inches in any future water court application or using said contract inches for any purpose, except that the City's Parks and Recreation Department may use said contract inches for irrigation of open space or parks in accordance with the terms and conditions of the Settlement Agreement; and

WHEREAS, the City desires to amend the Loveland Municipal Code at Section 19.04.080 to remove the reference to the Barnes Ditch and the Chubbuck Ditch consistent with the terms and conditions of the Settlement Agreement and to make clear that the City does not intend to accept Barnes contract inches or Chubbuck contract inches into the City's water bank.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LOVELAND, COLORADO:

Section 1. That Section 19.04.080 of the Loveland Municipal Code is hereby amended to read as follows:

19.04.080 Requirements for acceptance of ditch water.

A. Applications to transfer ditch water rights to the city shall be filed with the Department of Water and Power. No ditch water rights shall be accepted by the city unless first approved by the Loveland utilities commission. Said approval shall not be given without satisfaction of each of the following requirements:
   1. Evidence of the applicant's ownership of the ditch water rights in a form satisfactory to the city attorney;

2. A water bank agreement executed by the applicant and, if applicable, other documentation, such as a statement of historical use and dry-up covenant, in a form approved by the city attorney; and
3. A finding by the Loveland utilities commission that it is in the city's best interests to accept the ditch water rights.

B. The Loveland utilities commission may place conditions or restrictions on the city's acceptance of the ditch water rights or the applicant's use of the corresponding water bank credit as necessary to protect the city's interests. Applicants who do not wish to transfer their ditch water rights to the city subject to such conditions or restrictions may withdraw their application prior to execution of the water bank agreement by the city.

C. As used herein, "ditch water rights" shall refer to and mean water rights from the following ditches or ditch companies, commonly referred to as: ~~Barnes Ditch;~~ Big Thompson Ditch & Manufacturing Company; Buckingham Irrigation Company (George Rist Ditch); ~~Chubbuck Ditch;~~ Louden Irrigating Canal and Reservoir Company; and South Side Ditch Company.

Section 2. That as provided in City Charter Section 4-9(a)(7), this Ordinance shall be published by title only by the City Clerk after adoption on second reading unless the Ordinance has been amended since first reading in which case the Ordinance shall be published in full or the amendments shall be published in full. This Ordinance shall be in full force and effect ten days after its final publication, as provided in City Charter Section 4-8(b).

ADOPTED this _____ day of _____, 2014.

_____
Cecil A. Gutierrez, Mayor

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

_____
Assistant City Attorney

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
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AGENDA ITEM: 6
MEETING DATE: 2/19/2014
SUBMITTED BY: John McGee, Water Treatment Manager MS for JM

TITLE: City of Loveland Water Treatment Plant Hydroelectric Project

DESCRIPTION:
In November 2013, Sunrise Engineering completed a Water Treatment Plant (WTP) Hydroelectric feasibility study which showed a favorable benefit to cost ratio (1 or greater) to design and construct such facility at the WTP. On January 22, 2014 the City applied for a WaterSMART Program Water and Energy Efficiency Grant from the Bureau of Recreation to design and construct a hydroelectric facility at the WTP. The maximum award for the grant is $300,000 which is expected to be May 2014, if awarded. The estimated total project cost is $1.8 million. As part of the grant application condition, the City must show intent that the grant monies will be accepted if the grant is awarded. This intent must be in a form of a resolution adopted by the City Council. Prevailing wage rates do not apply.

SUMMARY:
Please see attachment A for the completed WaterSMART: Water and Energy Efficiency Grant technical proposal, attachment B for the signed cover letter and signed federal fund assistance forms for review.

RECOMMENDATION:
Adopt a motion recommending that City Council adopt a resolution expressing support for an application to the United States Department of the Interior, Bureau of Reclamation for a WaterSMART Program grant to partially fund construction of the Water Treatment Plant Hydroelectric Project.

REVIEWED BY DIRECTOR: MS for SA

ATTACHMENTS:
Attachment A: Completed Technical proposal for the WaterSMART: Water and Energy Efficiency Grant
Attachment B: Cover letter and signed federal assistance forms
Attachment C: Resolution

Attachment A

CITY OF LOVELAND WATER TREATMENT PLANT HYDROELECTRIC PROJECT

WATERSMART: WATER AND ENERGY EFFICIENCY GRANT

FY 2014

PROPOSAL SUBMITTED BY:

CITY OF LOVELAND
200 NORTH WILSON AVENUE
LOVELAND, CO 80537
970-962-3760

CITY PROJECT MANAGER:

JOHN MCGEE
WATER TREATMENT MANAGER
CITY OF LOVELAND WATER & POWER DEPARTMENT
200 NORTH WILSON AVENUE
LOVELAND, CO 80537
JOHN.MCGEE@CITYOFLOVELAND.ORG
970-222-8060 (PHONE)

CONSULTANT PROJECT MANAGER:

DEREK JOHNSON, PE
SUNRISE ENGINEERING, INC.
408 WEST 23RD STREET SUITE #2
CHEYENNE, WY 82001
DJOHNSON@SUNRISE-ENG.COM
307-775-9500 (PHONE)
307-775-9269 (FAX)

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APPENDICES

1.0 EXECUTIVE SUMMARY

Date: January 23, 2014
Applicant Name: City of Loveland
City: Loveland
County: Larimer
State: Colorado

The City of Loveland's Water Treatment Plant (WTP) Hydroelectric Project will install a 345 kW crossflow turbine inside a proposed powerhouse south of an existing sleeve valve vault at the WTP. Currently, the existing sleeve valve acts as a pressure reducing station which reduces the pressure as water is supplied to the WTP from Green Ridge Glade Reservoir. The proposed project will harness the upstream head from the existing pipeline and develop the hydroelectric resource available. WaterSMART Grant funds will be used to supplement funding that is being provided by the City of Loveland's Electrical Division. This project accomplishes the goals in the Task Area B of the Funding Opportunity Announcement by utilizing an opportunity for power generation from a renewable energy source to supplement the energy required to treat water for the City of Loveland.

In the past, a hydroelectric facility would require permitting through the Federal Energy Regulatory Commission (FERC). Under the Hydropower Regulatory Efficiency Act of 2013, qualifying facilities are not required to be licensed by FERC. Instead, the City must file a Notice of Intent to Construct a Qualifying Conduit Hydropower Facility with FERC. It is expected the WTP Hydroelectric Project will qualify under the new legislation, however if it is found that the project doesn't qualify, the State of Colorado (Governors Energy Office) has signed a Memorandum of Understanding (MOU) with FERC allowing for an expedited process for conduit exemptions for small hydroelectric turbine projects.

The project has an estimated duration of 18 months. The project is expected to enter the design phase by May 2014. The design phase is expected to last until the end of October 2014. Construction of the new powerhouse and turbine is expected to begin by January 2015 and continue through October 2015.

The project is not located on a Federal facility.

2.0 BACKGROUND DATA

The WTP is located approximately 5 miles west of Loveland, Colorado. The general project location is shown in **Figure 1**.

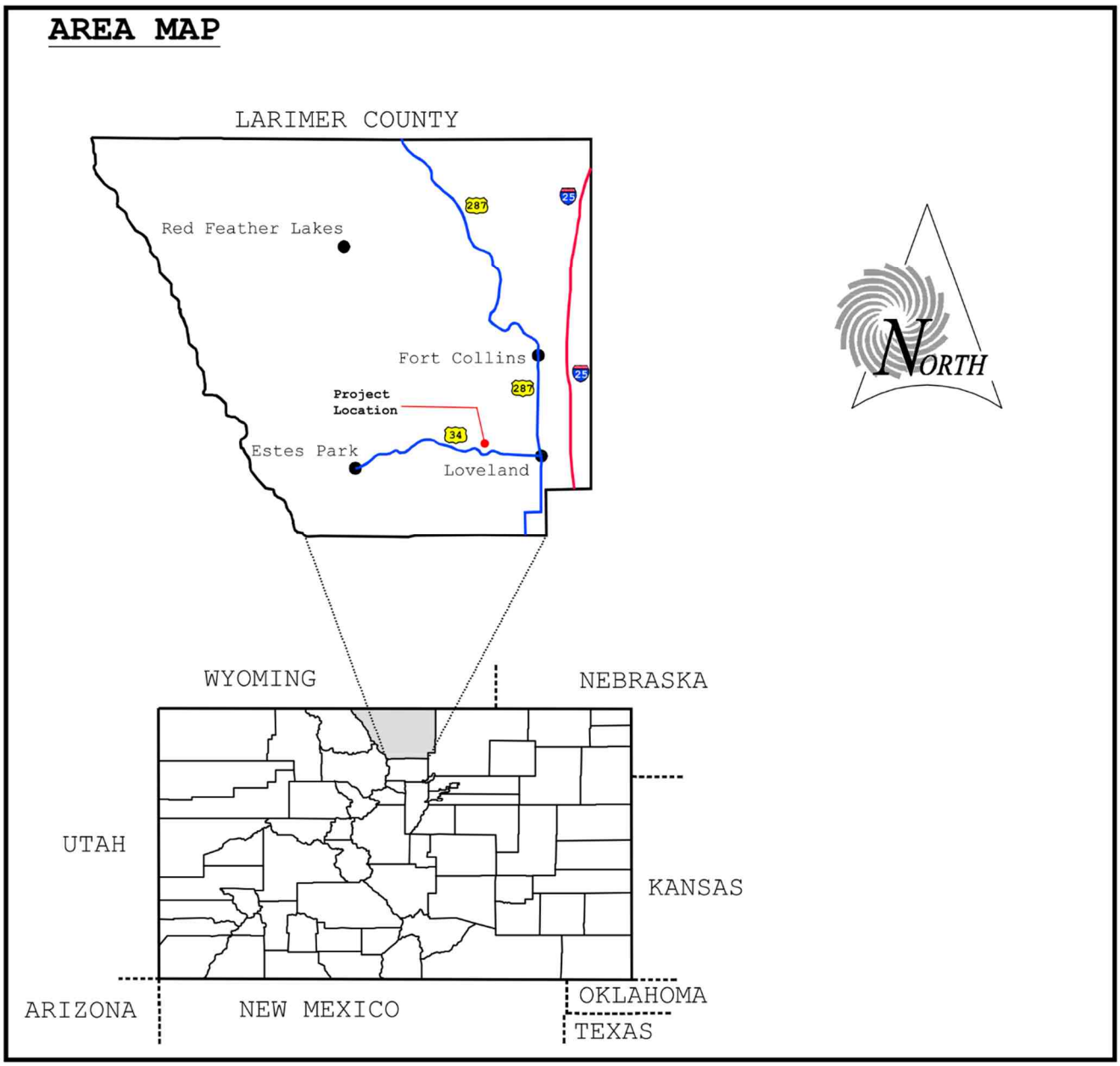

Figure 1: Project Location

The WTP receives water from two sources, the Charles Hansen Feeder canal which flows into Green Ridge Glade Reservoir, and from a diversion off of the Big Thompson River near the WTP. The City typically uses a blend of reservoir and river water.

The City of Loveland's sources for raw water include direct flow water rights on the Big Thompson River, ownership of units in the Colorado-Big Thompson Project, water derived from the City's ownership of shares or contract rights in a number of private local ditch and reservoir companies, and ownership of Windy Gap Project units. The City's water rights are quite complex and a full analysis of water rights are available in a report titled "2012 Raw Water Master Plan" (2012). This report can be made available upon request.

In 2010, the WTP produced approximately 4,300 million gallons (1,400 acre-feet) of potable water for 66,000 residents. This demand is expected to increase with population growth. In the next 40 to 50 years, the city's current potable water requirements are expected to double.

Currently, the WTP purchases electricity from Loveland Water & Power who purchase their power from the Platte River Power Authority. In 2010, the WTP consumed approximately 1,036,000 kWh. This proposed hydroelectric facility would be net metered and would be used to offset the energy consumed by the WTP.

The City has worked with the Department of Interior/Bureau of Reclamation on the Green Ridge Glade Reservoir improvement project which was completed in 2004. The Green Ridge Glade Reservoir capacity was increased from 600 acre-feet to 6,835 acre feet in 2004. This expansion not only provided additional water storage, but increased the amount of pressure head available upstream of the WTP.

3.0 TECHNICAL PROJECT DESCRIPTION

The WTP receives raw water from the Green Ridge Glade Reservoir. This raw water is transported to the WTP by 1,700 feet of existing steel pipeline. This pipeline varies in size from 54", 42" and 36". The entire site layout can be seen in **Figure 2**.

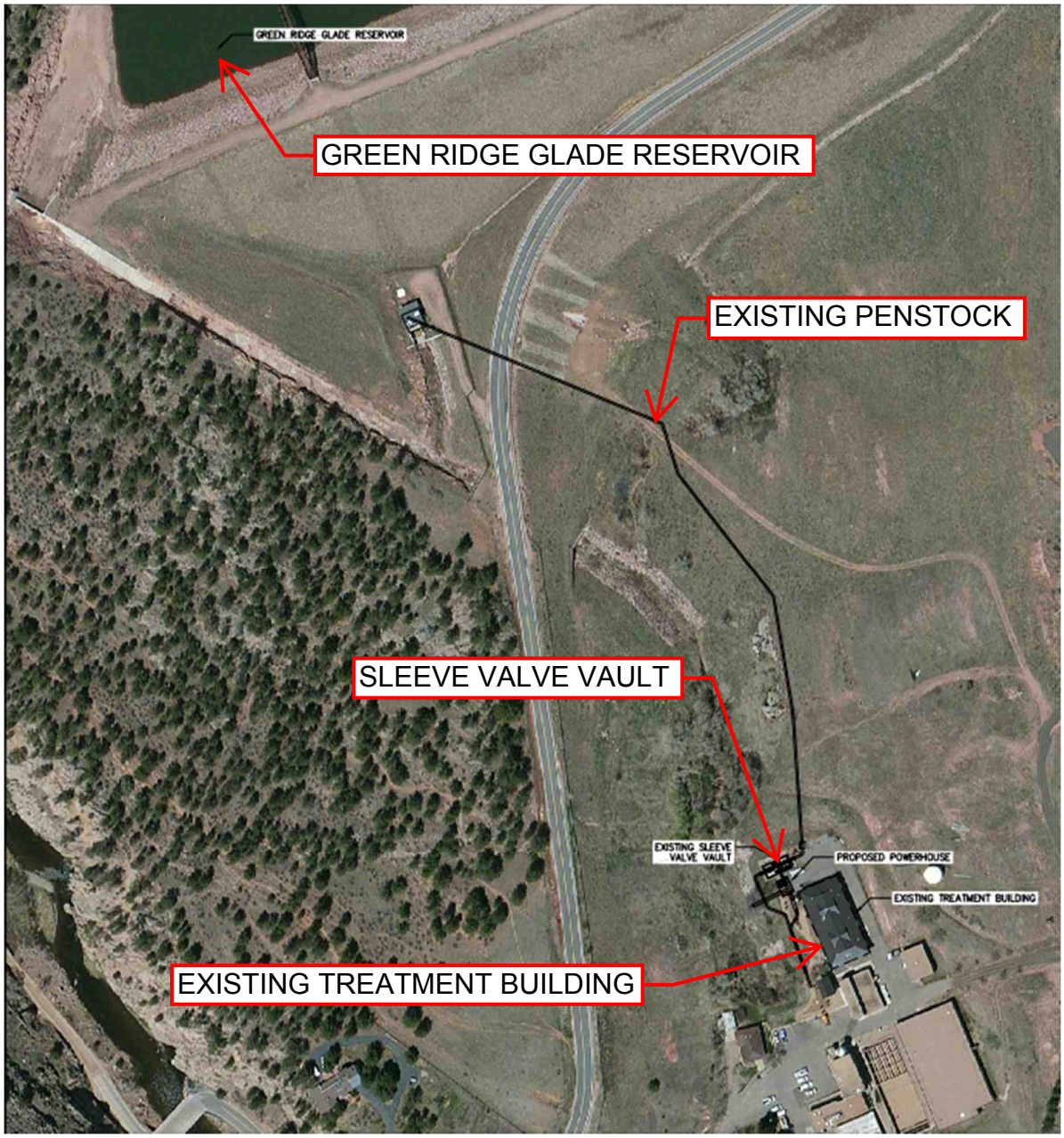

Figure 2: Site Layout

Currently the pressure head in the delivery system is reduced using a sleeve valve that is located just upstream of the WTP. This project will install a hydroelectric plant just south of the existing sleeve valve vault to produce energy to offset the energy use of the WTP.

A conceptual design has been completed as part of a feasibility study and report in preparation for this project. **Figure 3** shows the conceptual design of the project. This includes a new 30" penstock connecting the existing pipeline inside the sleeve valve vault to the turbine, a new powerhouse, connections to an existing duct bank, and an overflow channel.

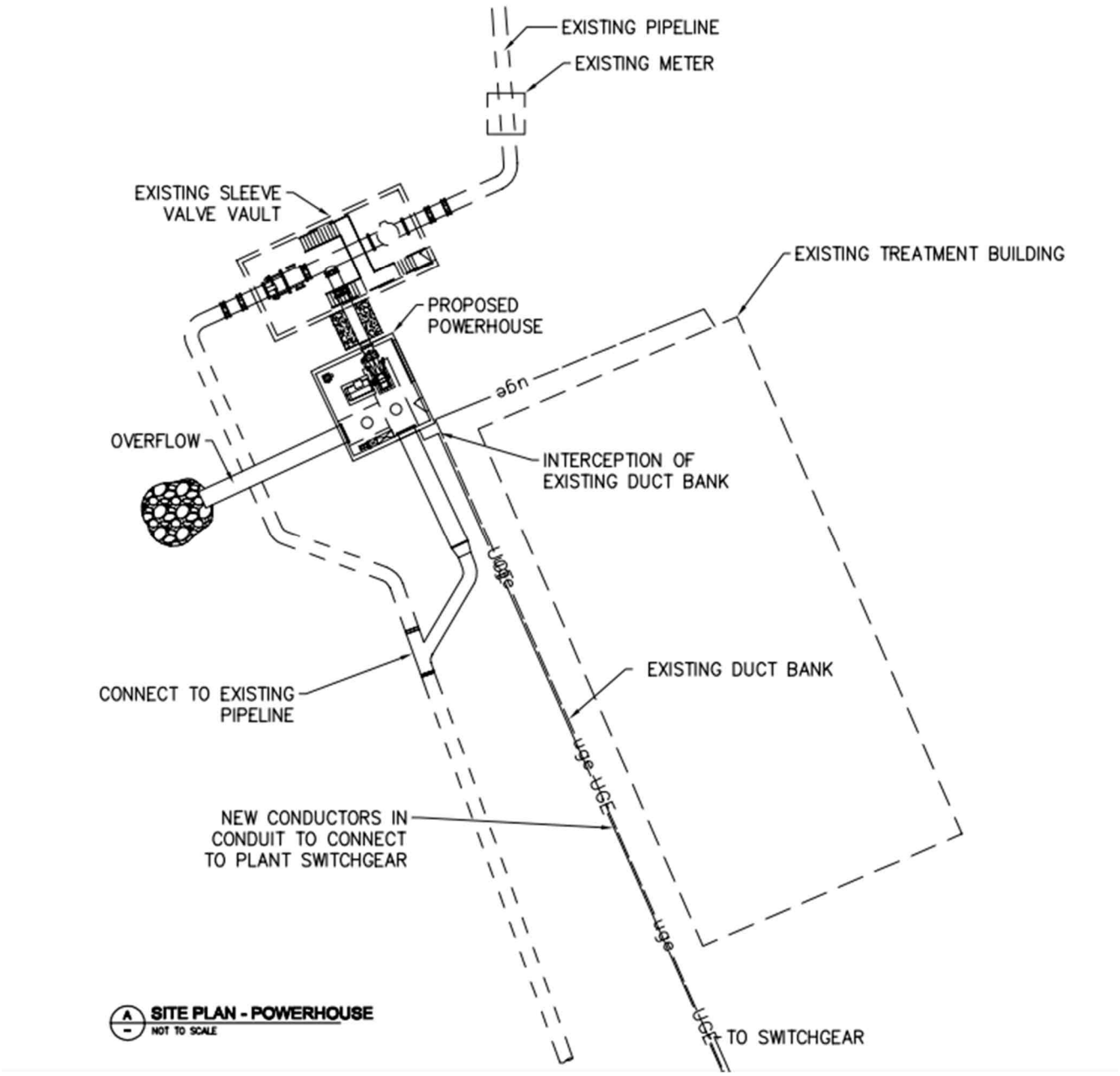

Figure 3: Site Plan

Work Package 1: Connection to existing penstock.

In order to make the connection in the existing sleeve valve vault the existing stairs would need to be slightly reconfigured and the pipe upstream of the sleeve valve would need to be removed and replaced

with a pipe section that is fitted with a tee. The new section of 30" welded steel penstock would convey water from the sleeve valve vault to the proposed powerhouse where it would connect to the proposed turbine.

Work Package 2: Powerhouse

The proposed powerhouse is located on the south side of the existing sleeve valve vault off of the existing pavement so that crane equipment can still access the roof hatches at the sleeve valve vault. The powerhouse will be a cast in place concrete building (approximately 22 feet x 20 feet) to provide sufficient protection for the turbine/generator and related equipment. The powerhouse will also include siding and metal roofing to match the existing WTP.

Work Package 3: Turbine Generator Unit

The Loveland WTP project experiences medium power head conditions but is too small of a project with too wide of a range of flows to make a Francis turbine economical. A reverse-pump as turbine was also considered but not selected due to low efficiencies and the need for constant head and flow conditions. The site is also not a good fit for a Pelton type turbine because the power head is not great enough.

Three turbine manufacturers were consulted regarding suitable equipment for the proposed project. Two manufacturers (HTS Inc. & Canyon Hydro) indicated that based on flow and head characteristics, the most economical choice for a hydraulic turbine suitable to this project is a crossflow turbine. A crossflow is an impulse type turbine suitable for a wide range of flows, relatively low head and an open channel discharge. Due to the relatively low output of the system, the generator selected is an induction type.

The crossflow turbine is fitted with a guide vane upstream of a cylindrical runner. The guide vane directs flow in the form of a wide rectangular jet onto the runner. The water enters the runner radially, passes through the runner and strikes the blades again on exit (hence, the term "crossflow").

Refer to **Figure 4** for an image and flow pattern diagram of a crossflow turbine. Angular momentum is imparted to the runner on both passes. Due to the crossflow pattern of flow, potential obstructions such as leaves, ice, small stones etc. are flushed out by the water (assisted by centrifugal force), thus making the runner self-cleaning. The runner has a horizontal shaft and is not subjected to axial thrust. Therefore, expensive and delicate thrust bearings are avoided.

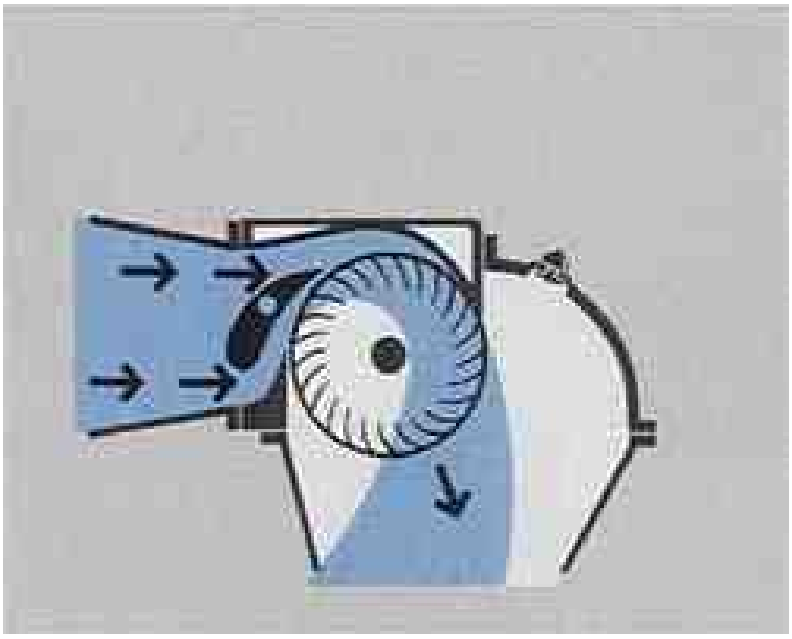

Figure 4: Crossflow Turbine Diagram

Work Package 4: Powerhouse Electrical Equipment

Electrical conductors that will run from the powerhouse to the plant switchgear will intercept the existing duct bank located near the proposed powerhouse. Per City direction, it has been assumed that the existing plant electrical meter will be replaced to include bi-directional capabilities by the City of Loveland with no additional cost to the project. Interconnection requirements outlined in the City of Loveland's "Requirements for Electric Service" will be part of the project specifications for the proposed turbine and generator equipment.

Work Package 5: Control Strategy

SCADA control will be integrated with the existing WTP control system for operation of the facility. The following represents a conceptual plan for controlling the hydro system.

Currently the flow from Green Ridge Glade Reservoir into the WTP is controlled by the sleeve valve. Conceptually, it is proposed that the turbine be in parallel with the existing sleeve valve. Based on existing flow data, 99% of the daily flows required by the WTP will pass through the proposed turbine and produce energy. On rare occasions (approximately 5 days per year), there will be low and high flows that the turbine cannot handle alone and the sleeve valve will need to work in concert with the turbine such that the sum of the flow through the turbine and the sleeve valve will be equal to the required flow from the reservoir.

The WTP control system will need to monitor the flow through the existing flow meter and use the feed-back signal from the guide vane opening of the turbine to indicate the flow through the turbine. When increased flow is needed at the WTP, the operator will adjust the flow setting and the WTP main

terminal unit (MTU) will signal the turbine guide vane to open incrementally until the reading from the flow meter and guide vane indicates that the flow requirement is met. If the flow shown by the flow meter and guide vane indicates that too much flow is being admitted to the WTP the MTU then signals the guide vane to close incrementally.

Work Package 6: Connection to downstream pipeline

The tailrace will be connected to a 48" diameter pipe which will reduce and connect to the existing pipeline that leads to the WTP. The tailrace elevation has been set at an elevation equal to the river intake to prevent water from backing up into the powerhouse.

4.0 EVALUATION CRITERIA

4.1 Evaluation Criterion B: Energy-Water Nexus

4.1.1 Subcriterion No. B.1.—Implementing Renewable Energy Projects Related to Water Management and Delivery

- ***Describe the amount of energy capacity.***

The design hydroelectric power generation capacity for the proposed WTP hydroelectric facility will be 345 kW.

The City provided reservoir level information for Green Ridge Glade Reservoir for the years 2009 through 2012. In the data set provided, the reservoir level ranges between 5,336 feet and 5,366 feet. It is assumed that the tailwater surface for the proposed turbine is the elevation of the river intake (Approximately 5233.71 feet). Therefore, the static head is calculated as approximately 132 feet. The Hazen Williams equation was used to estimate head loss through the penstock.

The estimated power generation is calculated using the following equation:

$$\frac{Net\ Head(ft)\ x\ Turbine\ Flow(cfs)\ x\ Turbine\ \&\ Generator\ Efficiency}{11.81} = Capacity\ (kW)$$

The combined annual average efficiency for the turbine and for the generator is estimated to be 75%. The design capacity is therefore calculated to be 335 kW, with a manufacturer nameplate generator output of 345kW.

- ***Describe the amount of energy generated.***

The design criteria for the project was developed based on the design flows, system head, and power generation potential. Historical daily flow data from the City for the years 2009 to 2012 was collected. A sample of the flow data and calculations for year 2009 is included in **Appendix A**. The WTP has only been operating with the expanded Green Ridge Glade Reservoir for less than 10 years so additional flow data was not available. City personnel have indicated that the years 2009 to 2012 represent a good mix of "wet" and "dry" years. These flows were projected into the future using the City's expected growth factors. These flows were used to create the Flow Duration Curve for the system, which is shown in **Figure 5**.

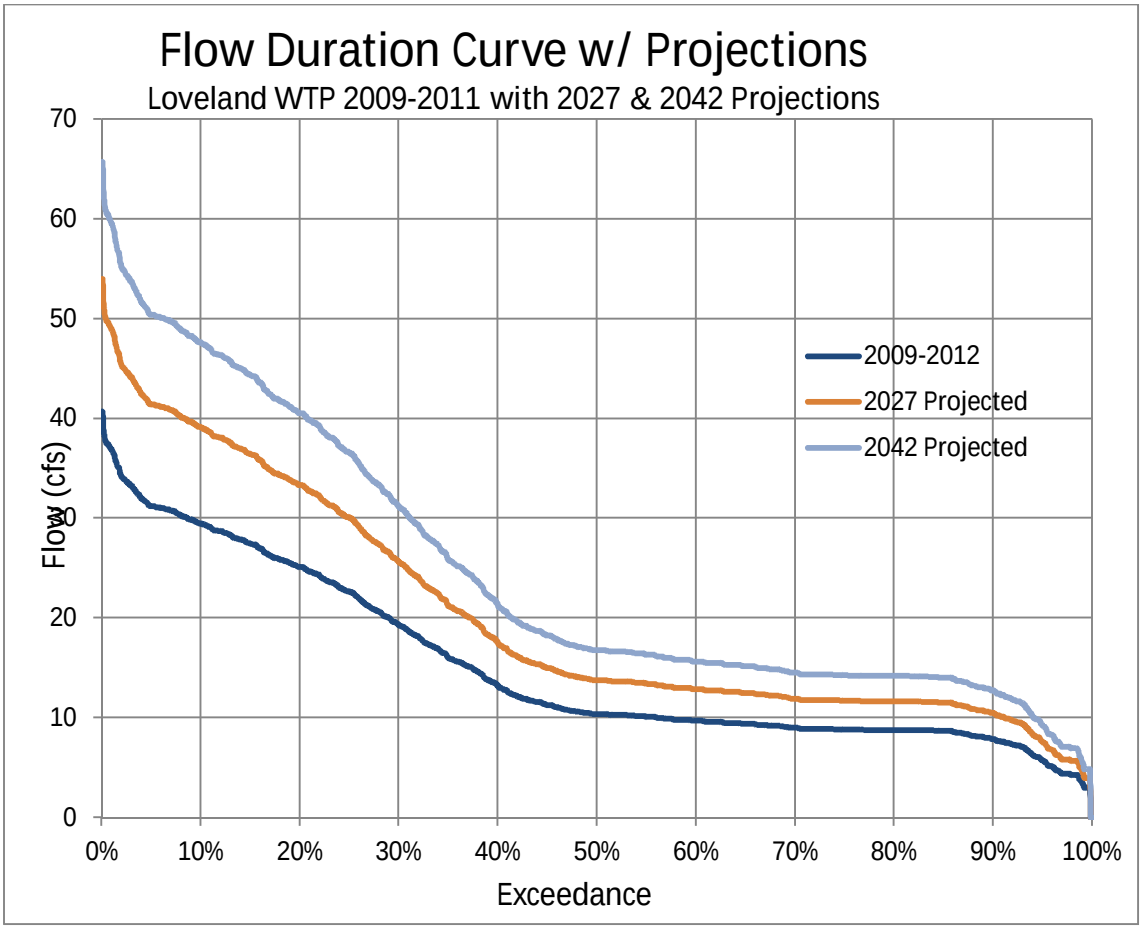

Figure 5: Flow Duration Curve

The amount of energy that will be generated by the system based on an average from 2009-2012 flows is 1,017,000 kWh per year. **Table 1** illustrates the average monthly generation potential. It is anticipated that the generation will increase as the City's demand for water increases.

Table 1: Monthly Average Generation Potential for 2009-2012

Month	Generation (kWh)
January	53,000
February	48,000
March	55,000
April	46,000
May	86,000
June	123,000
July	149,000
August	165,000
September	130,000
October	63,000
November	45,000
December	54,000

The average annual generation for 2027 flows is approximately 1,358,000 kWh per year. **Table 2** illustrates the average monthly generation potential for year 2027.

Table 2: Monthly Average Generation Potential for 2027

Month	Generation (kWh)
January	73,000
February	66,000
March	75,000
April	64,000
May	117,000
June	160,000
July	195,000
August	213,000
September	174,000
October	86,000
November	62,000
December	73,000

The average annual generation for 2042 flows is approximately 1,556,000 kWh per year. **Table 3** illustrates the average monthly generation potential for year 2042.

Table 3: Monthly Average Generation Potential for 2042

Month	Generation (kWh)
January	88,000
February	80,000
March	91,000
April	78,000
May	137,000
June	180,000
July	214,000
August	225,000
September	194,000
October	104,000
November	76,000
December	89,000

Describe any other benefits of the renewable energy project.

- ***Expected environmental benefits of the renewable energy system***

This project will reduce the energy needed to operate the WTP and thus reduce the demand for energy provided from other less environmental friendly sources. In essence, this project could assist in reducing greenhouse gas emissions and coal fired power plant emissions.

- ***Any expected reduction in the use of energy currently supplied through a Reclamation Project***

The City of Loveland receives its power from Platte River Power Authority. Platte River Power Authority has long-term contracts for the purchase of federal power generated from hydroelectric facilities from the Loveland Area Projects (LAP) and the Salt Lake Integrated Project (SLIP). Currently, 20% of Platte River's power is provided by hydroelectric systems. It is not expected that this project will reduce Platte River's demand of energy supplied through Reclamation projects, but the power generated by this project, will reduce the amount of energy required by the City of Loveland's Water Treatment Plant and will therefore allow the federal power from Platte River Power Authority to be used elsewhere.

- ***Anticipated beneficiaries, other than the applicant, of the renewable energy system***

This project could potentially benefit future users who have an interest in purchasing "green power". Currently, there are no plans in place to sell the generated energy from the project, but it might be an option in the future to obtain higher energy rates from a user willing to pay more for "green power".

- ***Expected water needs of the renewable energy system***

This renewable energy system will not require any additional water needs. It will simply utilize the energy potential from the water (from the Reservoir to the WTP) needed to meet the city's water needs.

4.2 Evaluation Criterion C: Benefits to Endangered Species

The project is not expected to directly benefit any endangered species. However, the benefit from developing a renewable energy source reduces greenhouse gas emissions and coal fired power plant emissions, which indirectly benefits wildlife and forests.

4.3 Evaluation Criterion E: Other Contributions to Water Supply Sustainability

Will the project increase awareness of water and/or energy conservation and efficiency efforts?

- ***Will the project serve as an example of water and/or energy conservation and efficiency within a community***

This project would serve as an effective example of energy conservation and efficiency within the City of Loveland and surrounding areas. Due to recent catastrophic flooding, the City's Idylwilde Hydroelectric Facility was severely damaged. The Idylwilde facility is being removed and will not operate again. This project could serve as a flagship for a successful hydroelectric facility in the Loveland area.

- ***Will the project increase the capability of future water conservation or energy efficiency efforts for use by others?***

No, the project will not have any direct impacts to increase the capability of future water conservation or energy efficiency efforts for use by others.

- ***Does the project integrate water and energy components?***

Yes, the proposed project will provide a source of renewable energy using energy from existing pressure head that is currently lost in a water pressure reducing valve.

4.4 Evaluation Criterion F: Implementation and Results

4.4.1 Subcriterion No. F.1.—Project Planning

- ***Identify and describe any engineering or design work performed specifically in support of the proposed project***

Sunrise Engineering performed a feasibility study for this project. This report was completed in December 2013. Sunrise Engineering investigated and collected current water sources and flow data. Sunrise prepared a preliminary conceptual design and calculated all losses (Static & Head) associated with the project and selected a turbine to maximize power generation based on current flow patterns.

The report also included a detailed engineer's opinion of probable cost and an economic analysis to determine the feasibility of the project. A copy of this report is available upon request.

4.4.2 Subcriterion No. F.2.—Readiness to Proceed

- ***Describe the implementation plan of the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates.***

The planning process for the project began in February 2013 with the agreement to complete a feasibility study to find if this project is worth pursuing. Sunrise Engineering completed this report in December 2013 and the decision was made by the City of Loveland to pursue the WaterSMART grant to help offset project costs. If the WaterSMART grant is awarded, the implementation plan will go as follows:

The design and permitting phase will begin in May 2014. This phase will include the engineering design, filing a Notice of Intent to Construct a Qualifying Conduit Hydropower Facility with FERC, and any other required administrative actions that must be completed prior to project construction. The design and permitting phase is expected to be complete by the end of October 2014.

The bid phase is expected to begin in November 2014 or earlier, depending on the progress of the design and permitting phase. The contract is expected to be awarded at the end of December 2014.

The construction phase is expected to begin in January 2015 and will continue for an estimated duration of 10 months, finishing by October 2015. The actual construction is only anticipated to take 6 months, but 4 additional months have been allotted to account for the time it may take to procure the turbine.

The projected project schedule is summarized in **Table 4**.

Table 4: Loveland WTP Hydro Projected Schedule

Phase	May 2014	Jun 2014	Jul 2014	Aug 2014	Sep 2014	Oct 2014	Nov 2014	Dec 2014	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	Jun 2015	Jul 2015	Aug 2015	Sep 2015	Oct 2015
Design & Permitting																		
Bid																		
Construction																		

- ***Please explain any permits that will be required, along with the process for obtaining such permits.***

In the past a hydroelectric facility such as the one proposed for the Loveland WTP would require permitting or an exemption through the Federal Energy Regulatory Commission (FERC). Under the Hydropower Regulatory Efficiency Act of 2013, qualifying conduit hydropower facilities are not required to be licensed or exempted by FERC. Instead, the City must file a Notice of Intent to Construct a Qualifying Conduit Hydropower Facility with FERC. The Commission provides an online

system that allows filings via the Internet, and greatly simplifies the process. The State of Colorado (Governors Energy Office) signed a Memorandum of Understanding (MOU) with FERC allowing for conduit exemptions for small hydroelectric turbine projects. If it is found that this project doesn't meet the qualifications for the Notice of Intent, the City will pursue the Memorandum of Understanding. The City and Sunrise will begin this process in May 2014.

This project will also require an interconnection application and review process with the Loveland Water and Power Department and its wholesale provider Platte River Power Authority (PRPA). We will begin the process in sequence with the Notice of Intent with FERC.

Since this project requires minimal disturbance, the City owns all land where the proposed powerhouse and electrical interconnection are to be located, the project will not involve any navigable waters of the United States, and water conveyance will be through a pipeline (project will not consume any water) no additional permits are anticipated.

4.4.3 Subcriterion No. F.3.—Performance Measures

Performance Measure No. B.: Projects with Quantifiable Energy Savings

Performance Measure No. B.1.—Implementation of Renewable Energy Improvements Related to Water Management and Delivery

- ***Explain the methodology used for quantifying the energy generated from the renewable energy system***

A complete description of the methodology used for quantifying the energy generated from the renewable energy system can be found in Section 4.1.1. A brief summary is included in this section. The design capacity is found by calculating the estimated power generation based on flow data provided by the city. The Hazen-Williams equation is used to estimate the head loss through the penstock. This head loss must also include local losses caused from the wye at the control house, various bends along the pipeline and the butterfly valve. The static head (difference between the reservoir level and the tailrace water surface) is approximately 132 feet. The generation is found by the following equation:

$$\frac{Net\ Head(ft)\ x\ Turbine\ Flow(cfs)\ x\ Turbine\ \&\ Generator\ Efficiency}{11.81} = Capacity\ (kW)$$

Tables of the energy produced by this project can be found above in Section 4.1.1 (**Tables 1, 2 & 3**).

A sample hydraulic model output for years 2009-2012 can be seen as an attachment to this application in **Appendix A**.

- ***Explain the methodology for calculating the quantity of energy savings resulting from the activity***

The proposed facility will provide energy savings in that the production from the hydroelectric facility will be used to offset energy needs at the Loveland Water Treatment Plant. The method used for calculating energy production is explained in Section 4.1.1. In summary, historic flows and reservoir levels were used to project future energy production over the 30 year feasibility analysis period.

- ***Explain anticipated cost savings for the project***

The proposed project will provide cost savings to the City of Loveland in the form of decreased energy consumption at the WTP due to the generation of energy by the hydroelectric facility. In some cases the City will receive additional payments for the surplus energy which is sold back onto the electrical distribution grid.

- ***Include an estimate of energy conserved***

The energy conserved by the City of Loveland Hydro Project can be taken to be the amount of renewable energy produced in the projects first year of operation (2016) which is approximately 1,017,000 kWh per year. This number is expected to increase as the City's demand for water at the WTP increases. The demand for water has been projected into the future and the flows have been adjusted to represent this increased demand. These flows have been used to calculate the energy produced at the hydro facility. It is projected to produce (conserve) 1,358,000 kWh per year in 2027 and 1,556,000 kWh per year in 2042.

4.5 Evaluation Criterion G: Additional Non-Federal Funding

The City of Loveland has been approved for funding by the City's Power department for the remainder of the costs that are not covered by the WaterSMART Water and Energy Efficiency Grant. It is anticipated that a total of $300,000 will be provided by the WaterSMART Grant. The total project cost is estimated to be $1,833,000. The Non-Federal Costs will therefore be $1,533,000.

The percentage of Non-Federal funding is given as:

$$\frac{\$ \quad 1{,}533{,}000}{\$ \quad 1{,}833{,}000} = \quad 84\%$$

84% of the project will be funded with Non-Federal funds.

4.6 Evaluation Criterion H: Connection to Reclamation Project Activities

- ***How is the proposed project connected to Reclamation project activities?***

This proposed project is connected to the Colorado Big Thompson Project. The Green Ridge Glade Reservoir receives water from the Charles Hansen Feeder Canal. The Charles Hansen Feeder Canal transports water from Flatiron Reservoir to Green Ridge Glade Reservoir. The Charles Hansen Feeder

Canal is a component of the Colorado Big Thompson Project. The Green Ridge Glade Reservoir will directly feed the proposed WTP hydroelectric facility with Reclamation project water.

- ***Does the applicant receive Reclamation project water?***

The applicant does receive Reclamation project water. As stated above, the WTP hydroelectric plant will receive a portion of its water from the Colorado Big Thompson Project.

- ***Is the project on Reclamation project lands or involving Reclamation facilities?***

The proposed project will not take place on Reclamation project lands.

- ***Is the project in the same basin as a Reclamation project or activity?***

The project is in the same basin as the Colorado Big Thompson project. The proposed hydroelectric facility will utilize water from the Green Ridge Glade Reservoir (provided by the Charles Hansen Feeder Canal) to generate electricity and offset the water treatment plant operating costs.

- ***Will the proposed work contribute water to a basin where a Reclamation project is located?***

The proposed project will not contribute water to a basin where a Reclamation project is located.

5.0 PERFORMANCE MEASURES

The instructions regarding application content (IV.C.4 Application Content) in FOA No. R14AS00001 state that the performance measures are to be included as part of the Technical Proposal and Evaluation Criteria document. The performance measures listed under subpart IV.D. Performance Measures include Environmental and Cultural Resources Compliance (IV.D.1.), Required Permits or Approvals (IV.D.2.), Official Resolution (IV.D.3.), and Project Budget (IV.D.4.). However, these performance measures are also shown to be included as separate sections of the application (independent of the Technical Proposal and Evaluation Criteria) under IV.C.4 - Application Content. For this report, the Performance Measures are included in this section of the report and are not included as separate attachments.

5.1 Environmental and Cultural Resources Compliance

(1) Will the project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area.

The City of Loveland WTP Hydroelectric Project will result in minor impacts to the surrounding environment in relation to the construction of the powerhouse, penstock, and tailrace piping. It is expected that all project activities will take place in previously disturbed lands. The new penstock and tailrace piping will be buried, and will require the excavation of a trench with approximate dimensions of 6 feet wide and 8 feet deep along the length of the penstock and tailrace piping. The environmental impacts will be contained within the construction zone, which is not anticipated to exceed 25 feet on either side of the penstock or tailrace piping. The total penstock and tailrace piping length is approximately 80 feet. Vegetation that is currently located along the alignment will be removed in the excavation process. Environmental impacts can be mitigated during construction by employing proper erosion control methods to prevent the exposed soils from washing away. The alignment will be remediated following the construction of the penstock to promote the regrowth of native vegetation. There will also be excavation for the powerhouse. Environmental impacts will be contained within the construction zone and remediation efforts will be utilized around the new powerhouse to promote regrowth of the native vegetation.

(2) Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?

A review of the US Fish and Wildlife Service's Critical Habitat Mapper indicated that the proposed project is not located in a designated critical habitat.

During the expansion of the Green Ridge Glade Reservoir, an environmental assessment was prepared for the Bureau of Reclamation by Water Consult in May 2000. This report entitled "Use of Colorado-

Big Thompson Facilities to Convey City of Loveland Water Supplies to Expanded Green Ridge Glade Reservoir" listed the threatened, endangered, and candidate species that could be present in the project location. This information is summarized in **Table 5** and **Table 6**.

Table 5: Threatened, Endangered, Candidate, and Rare Plants

Common Name	Status
Ute ladies'-tresses orchid	Federal threatened
Colorado butterfly plant	Federal proposed
Bell's twinpod	State rare (S3)
Big bluestern/mountain mahogany/ponderosa pine	State imperiled (S2)

Table 6: Threatened, Endangered, and Candidate Wildlife Species

Common Name	Status
American peregrine falcon	Federal endangered and state threatened
Bald eagle	Federal and state threatened
Whopping crane	Federal and state endangered
Eskimo curlew	Federal endangered
Mexican spotted owl	Federal and state threatened
Black-footed ferret	Federal and state threatened
Preble's meadow jumping mouse	Federal proposed endangered
Mountain plover	Federal candidate
Swift fox	Federal candidate

The environmental assessment concluded that the expansion of the Reservoir would have no effect on any of these species. Since our proposed hydroelectric facility is located in the same general project location, and has minimal disturbance (compared to the expansion of the Reservoir), it is assumed that an environmental assessment will yield similar results. The complete environmental assessment referenced above is available upon request. For these reasons, it has been asserted that there will be no environmental impacts and that this project will be in compliance with previous NEPA documents and Corps permits. If the Bureau finds this assumption insufficient, the City will be prepared to complete a Categorical Exclusion.

(3) Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "waters of the United States?" If so, please describe and estimate any impacts the project may have.

There are no wetlands or other surface waters inside the project boundaries that fall under the CWA jurisdiction as "waters of the United States."

(4) When was the water delivery system constructed?

The delivery system for the City of Loveland's WTP was constructed in 2004 when the reservoir was expanded.

(5) Will the project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)?

The City of Loveland WTP Hydroelectric Project will not affect any individual features of an irrigation system besides a connection to the existing penstock described above.

(6) Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places?

The City of Loveland WTP Hydroelectric project does not have any buildings, structures, or features listed on the National Register of Historic Places.

(7) Are there any known archeological sites in the proposed project area?

There are not any known archeological sites in the proposed project area.

(8) Will the project have a disproportionately high and adverse effect on low income or minority populations?

The project will have no effect on low income or minority populations.

(9) Will the project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?

The project will not affect any tribal lands.

(10) Will the project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

The project will not limit the continued existence of existing noxious weeds or non-native species that may exist in the area, but it will not contribute to the introduction or spread of noxious weeds or non-native species.

5.2 Required Permits or Approvals

In the past a hydroelectric facility such as the one proposed for the Loveland WTP would require permitting or an exemption through the Federal Energy Regulatory Commission (FERC). Under the Hydropower Regulatory Efficiency Act of 2013, qualifying conduit hydropower facilities are not required to be licensed or exempted by FERC. Instead, the City must file a Notice of Intent to Construct a Qualifying Conduit Hydropower Facility with FERC. The Commission provides an online system that allows filings via the Internet, and greatly simplifies the process. If it is found that the project doesn't qualify, the State of Colorado (Governors Energy Office) signed a Memorandum of

Understanding (MOU) with FERC allowing for conduit exemptions for small hydroelectric turbine projects. We will begin this process in May 2014.

5.3 Official Resolution

On February 19, 2014, the Loveland Utility Commission (LUC) will consider recommending a resolution expressing support for the City's application for WaterSMART Grant funding. The resolution will be adopted by City Council at the City Council meeting on March 4, 2014. This resolution will authorize the City to enter into an agreement with the Bureau of Reclamation for receipt of WaterSMART funds, provide a budget request to appropriate funds where necessary to meet the cost share requirements, and commit the City to meet the established deadlines for entering into a cooperative agreement. A letter from the City Water & Power Department director committing to this course of action is included as an attachment to this application in **Appendix B**. The City will provide a certified copy of the signed resolution to the Bureau of Reclamation no more than 30 days after the application deadline.

5.4 Project Budget

Funding Plan and Letters of Commitment

- ***Describe how the non-Reclamation share of project costs will be obtained.***

The non-Reclamation share of the project costs will be provided by the City of Loveland.

(1) How you will make your contribution to the cost share requirement, such as monetary and/or in-kind contributions and source funds contributed by the applicant (e.g., reserve account, tax revenue, and/or assessments).

The City of Loveland will make its contribution to the cost share requirement by utilizing a reserve account.

(2) Describe any in-kind costs incurred before the anticipated project start date that you seek to include as project costs. Include:

(a) What project expenses have been incurred

The City of Loveland spent $30,800 on a WTP Hydroelectric feasibility study. $15,000 was given to the City through the Colorado Water Resources and Power Development Authority and the City provided the remaining funds. Other cost associated with project planning and the preparation of funding applications have also been incurred. It is not anticipated that any of these costs will be included in the project cost.

(b) How they benefitted the project

The engineering study analyzed the feasibility of multiple options for the hydroelectric system, and identified the most cost effective alternatives. The study was critical to developing the scope and

framework of the project. The planning and funding assistance services were required to secure the necessary funding to make the project possible.

(c) The amount of the expense

The amount of the expense was $30,800.

(d) The date of cost incurrence

The costs have been incurred during the period of February 2013 through December 2013.

(3) Provide the identity and amount of funding to be provided by funding partners, as well as the required letters of commitment.

There are no funding partners for this project. The City of Loveland is providing the additional funding needed that isn't provided by the WaterSMART grant.

(4) Describe any funding requested or received from other Federal partners.

No other Federal grant funding is expected however, due to recent catastrophic flooding in the Loveland area, FEMA funds might be available to assist in project costs to supplement the loss of the Idylwilde Hydroelectric facility. This funding amount and application is not certain and has yet to be determined.

(5) Describe any pending funding requests that have not yet been approved, and explain how the project will be affected if such funding is denied.

The only pending funding request that has not yet been approved is the request for this WaterSMART Grant. The affordability of the project will be impacted if the funding is denied. The project is expected to continue even if the WaterSMART funding is denied.

Please include the following chart (Table 7) to summarize your non-Federal and other Federal funding sources.

Table 7: Summary of non-Federal and Federal Funding Sources

Funding Sources	Funding Amount
Non-Federal entities	
1) City of Loveland Electrical Division	$ 1,533,000
2)	
Non-Federal subtotal:	$ 1,533,000
Other Federal entities	
1) N/A	
Other Federal subtotal:	
Requested Reclamation Funding:	$ 300,000
Total project funding:	$ 1,833,000

Budget Proposal

Table 8: Funding Sources

Funding Sources	Percent of total project cost	Total cost by source
Recipient funding	84%	$ 1,533,000
Reclamation funding	16%	$ 300,000
Other Federal funding		$ -
Totals	**100%**	**$ 1,833,000**

Table 9: Budget Proposal

Budget item description	Computation		Quantity type (hours/days)	Total cost
	$/Unit	Quantity		
Salaries and wages				
Employee 1				
Employee 2				
Employee 3				
Fringe benefits				
Full-time employees				
Part-time employees				
Travel				
Trip 1				
Trip 2				
Trip 3				
Equipment				
Item A				
Item B				
Item C				
Supplies/Materials				
Item A				
Item B				
Contractual/construction				
Engineering			LS & Hourly	$ 179,100
Construction Contractor			LS	$ 1,571,000
Other				
Legal/Administrative				$ 62,900
Notice of Intent				$ 8,000
Bidding & Procurement				$ 12,000
Total Direct Costs				
Indirect costs - __%				
Total project costs				$ 1,833,000

Table 10: Engineer's Opinion of Probable Cost

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	Mobilization	1	L.S.	$ 100,000	$ 100,000
2	Excavation	300	Cu. Yd	$ 50	$ 15,000
3	Misc Sitework	1	L.S.	$ 15,000	$ 15,000
Penstock					
4	Fabricate and Install Tee in Existing Sleeve Valve Vault	1	L.S.	$ 58,200	$ 58,200
5	Relocation and Alteration of Sleeve Valve Vault Stairs	1	L.S.	$ 10,000	$ 10,000
6	Core Drill Through Existing Sleeve Valve Vault	1	L.S.	$ 1,000	$ 1,000
7	30" Ø Welded Steel Penstock & Fittings Installed	30	L.F.	$ 1,000	$ 30,000
8	48" Ø Tailrace Piping	26	L.F.	$ 800	$ 20,800
9	36" Ø Tailrace Piping & Fittings	26	L.F.	$ 650	$ 16,900
10	Fabricate and Install 36" Ø Tee in Downstream Piping	1	L.S.	$ 70,000	$ 70,000
11	Overflow Piping (48" Ø)	40	feet	$ 400	$ 16,000
12	Concrete Thrustblocks	30	Cu. Yd	$ 250	$ 7,500
13	Air Release Valve	1	L.S.	$ 3,000	$ 3,000
14	Pressure Relief Valve & Piping	1	L.S.	$ 25,000	$ 25,000
Turbine Equipment Package					
16	Crossflow Turbine, Generator & Controls, HPU	1	L.S.	$ 495,000	$ 495,000
17	Turbine Equipment Installation (Including Turbine,/Generator, Mechanical and Electrical)	1	L.S.	$ 60,000	$ 60,000
Powerhouse					
18	Concrete Powerhouse Foundation, Walls and Floor	100	Cu. Yd	$ 500	$ 50,000
19	Building Roof System	1	L.S.	$ 25,000	$ 25,000
20	Exterior Metal Siding	1,000	Sq. Ft.	$ 15	$ 15,000
21	30" Ø Access Manhole Covers	2	Each	$ 2,000	$ 4,000
22	Turbine Shutoff Butterfly Valve	1	Each	$ 15,000	$ 15,000
23	Overhead Door (10' W x 10.5' H)	1	L.S.	$ 4,000	$ 4,000
24	Man Door	1	L.S.	$ 1,000	$ 1,000
25	Powerhouse Mechanical and Heating	1	L.S.	$ 5,000	$ 5,000
26	Powerhouse Lighting and Electrical	1	L.S.	$ 25,000	$ 25,000
27	Portable Gantry Crane System	1	L.S.	$ 5,000	$ 5,000
Electrical & Control					
28	SCADA Integration	1	L.S.	$ 25,000	$ 25,000
29	600 kcmil THHN Cu Conductor from Powerhouse to Switc	1,700	L.F.	$ 10	$ 17,000
30	Cable Installation/ Terminations	1	L.S.	$ 3,700	$ 3,700
31	Fiber Optic installed with 4 Terminations	600	L.F.	$ 7	$ 4,200
				SUBTOTAL	**$ 1,142,300**

Constuction Permits (1.5%)	$ 17,200
Performance Bond (2%)	$ 22,900
Insurance (1%)	$ 11,500
10% O&P	$ 114,300
Construction Engineering/Inspection/Management (8%)	$ 91,400
Construction Contingency (15%)	$ 171,400
TOTAL CONSTRUCTION COST	**$ 1,571,000**

Notice of Intent	$ 8,000
Preliminary Engineering Including Geotech and Survey	$ 22,000
Preparation of Final Designs and Specifications (10%)	$ 157,100
Bidding & Procurement	$ 12,000
Legal (4%)	$ 62,900
TOTAL PROJECT COST	**$ 1,833,000**

Budget Narrative

Salaries and Wages

Salaries and wages for City employees will not be included in the project costs.

Fringe Benefits

Fringe Benefits for City employees will not be included in the project costs.

Travel

Travel costs for City employees will not be included in the project costs.

Equipment

Equipment that is owned or rented by the City of Loveland will not be used on this project. The construction contractor will provide all necessary equipment to perform the work.

Materials and Supplies

Materials and supplies used by the City of Loveland have not been included in the project cost. Materials and supplies used for engineering and construction are included in the engineering and construction costs.

Contractual

The three entities that are expected to perform work for the City of Loveland under this project include Engineering(not yet selected), the construction contractor (not yet selected), and the City's Bond Attorney/Legal Counsel.

1. Engineering - The Engineer of Record for the project has not been determined yet. The specific tasks that have been and will be performed by the Engineer include:
    a. Preliminary Engineering Services – Engineer will perform preliminary engineering services to address the feasibility of various options regarding the scope of the project. These preliminary engineering services will also include geotechnical investigation and survey. The total compensation for this task is $22,000.
    b. Funding and Administrative Services – Engineer will provide support and administrative assistance through the funding processes for the WaterSMART programs. Support will include providing additional information, calculations, cost estimates, and generally responding to requests for information from the funding agencies, as well as attending meetings and bond closings as required to secure the funding. This service is provided under a different contract and is not included as part of the project cost.

c. FERC Notice of Intent to Construct a Conduit Hydropower Facility Services – Engineer will provide consultation and support services to the City of Loveland as required to assist with the Notice of Intent Application. This task will be performed on an hourly basis.
d. Engineering Design – Engineer will prepare complete plans, specifications, and contract documents for the project. This task will be performed for a lump sum of $157,100, which represents 10% of the total construction cost. Based on the complexity of the project, this percentage is considered a reasonable and justifiable compensation.
e. Bid Phase Services – Engineer will provide Bid Phase Services, to include assistance with advertising the project, response to bidders' requests for information, preparation of addendums as required, analysis of the bids, and recommendations to the City of Loveland regarding the successful bidder. These services will be performed for a lump sum amount of $12,000.
f. Construction and Startup Services – Engineer will provide construction engineering services starting at the award of the construction contract through the final completion of the project. These services will include full time construction observation, review of product submittals and shop drawings, review and processing of contractor's pay applications, response to contractor's requests for information, interpretation of plans and specifications, preparation of change orders as required, startup and commissioning assistance, and determination of substantial completion and final completion of the project. The budgeted amount for these services is $91,400, which represents 8% of the total construction costs. These services will be performed on an hourly basis.

2. Construction Contractor – The project will be put out for bids and a qualified bidder will be selected. The contractor will be responsible for performing all of the work as described in the project plans and specifications. The total estimated construction cost, including a 15% contingency, is $1,571,000.

3. Bond Attorney/Legal Counsel – The City of Loveland's Bond Attorney is expected to be provided in house. The estimated legal fees for the bond closing(s) and legal counsel are $62,900.

Environmental and Regulatory Compliance Costs

The amount of the line item should be based on the actual expected environmental compliance costs for the project. However, the minimum amount budgeted for environmental compliance should be equal to at least 1-2 percent of the total project costs.

This project lies within an area that has been recently disturbed with the expansion of the Green Ridge Glade Reservoir. This project is also within the property of a developed treatment plant and won't alter or disrupt water flow. For these reasons, no environmental and regulatory costs have been

included. If it is found that additional funding is needed to meet environmental and regulatory compliance, the City is prepared to provide the additional funding required.

Reporting

Reporting costs are covered by the Funding & Administration item in the budget. Sunrise Engineering will perform these reporting requirements as part of another contract related to funding application services. The estimated cost for the reporting requirements is $4000.

Other Expenses: N/A

Indirect Costs: N/A

Total Costs

Indicate total amount of project costs, including the Federal and non-Federal cost-share amounts.

The total project cost is $1,833,000. The Federal and non-Federal cost share amounts are shown below in **Table 11**.

Table 11: Federal and Non-Federal Cost Share Amounts

Funding Sources	Percent of total project cost	Total cost by source
Recipient funding	84%	$ 1,533,000
Reclamation funding	16%	$ 300,000
Other Federal funding		$ -
Totals	**100%**	**$ 1,833,000**

Budget Form

See attached SF-424C, Budget Information – Construction Programs which has been included with the application in **Appendix C**.

APPENDICES

APPENDIX A
HYDRAULIC MODEL OUTPUT

Loveland WTP Hydro Alt-1

Turbine Data

Turbine Type	Crossflow	
Turbine Elevation	5237.36	ft
Turbine Flow Max	40	cfs
Turbine Flow Min	4.0	cfs

Water Elevation Data

Maximum U/S Water Surface	5366	ft
Tailwater Elevation	5233.7	ft
Maximum Head Available	132.29	ft

Power Production Data

Turbine Rating	248	kW
nnual Production	1,017,000	kWh

Penstock Data

Existing:			Proposed:		
Hazen-Williams C	120		Hazen-Williams C	120	
Length	1710	ft	Length	30	ft
Diameter	42.0	in	Diameter	30.0	in
Area	9.62	ft^2	Area	4.91	ft^2
Velocity Maximum	4.2	fps	Velocity Maximum	8.3	fps
Sum K	2.4002		Sum K	2.7	

Flow Data

Max Flow	40.7	cfs
Min Flow	0.0	cfs
Avg Flow	15	cfs

Net Head Data

Max Net Head	128.2
Min Net Head	95.7

Date	Gauge Flow (gpm)	Gauge Flow (cfs)	Head Loss (ft)	WSL Elevation (ft)	Net Head (ft)	Turbine Flow (cfs)	Bypass Flow (cfs)	T&G Efficiency (%)	Instantaneous Power (kW)	Net Power Production (kWh)	Monthly Production (kWh)
1/1/2009	3916	8.7	0.32	5359.0	121.3	8.7	0.0	75%	67.0	1606.9	
1/2/2009	4263	9.5	0.38	5359.0	121.3	9.5	0.0	75%	72.9	1748.6	
1/3/2009	4749	10.6	0.46	5359.0	121.2	10.6	0.0	75%	81.1	1946.5	
1/4/2009	4263	9.5	0.38	5359.1	121.4	9.5	0.0	75%	72.9	1750.0	
1/5/2009	4471	10.0	0.41	5359.0	121.2	10.0	0.0	75%	76.4	1833.5	
1/6/2009	4541	10.1	0.42	5358.9	121.1	10.1	0.0	75%	77.5	1860.2	
1/7/2009	3916	8.7	0.32	5358.6	120.9	8.7	0.0	75%	66.7	1601.6	
1/8/2009	5235	11.7	0.56	5359.0	121.1	11.7	0.0	75%	89.3	2144.1	
1/9/2009	4610	10.3	0.44	5359.0	121.2	10.3	0.0	75%	78.8	1890.0	
1/10/2009	3638	8.1	0.28	5358.6	121.0	8.1	0.0	75%	62.0	1488.5	
1/11/2009	4680	10.4	0.45	5358.4	120.6	10.4	0.0	75%	79.5	1908.8	
1/12/2009	4680	10.4	0.45	5358.4	120.6	10.4	0.0	75%	79.5	1908.8	
1/13/2009	3707	8.3	0.29	5358.3	120.7	8.3	0.0	75%	63.0	1513.0	
1/14/2009	3985	8.9	0.33	5358.3	120.6	8.9	0.0	75%	67.7	1625.8	
1/15/2009	3985	8.9	0.33	5358.1	120.4	8.9	0.0	75%	67.6	1623.1	
1/16/2009	4263	9.5	0.38	5358.1	120.4	9.5	0.0	75%	72.3	1735.6	
1/17/2009	4749	10.6	0.46	5358.1	120.3	10.6	0.0	75%	80.5	1932.1	
1/18/2009	4610	10.3	0.44	5358.0	120.2	10.3	0.0	75%	78.1	1874.4	
1/19/2009	4610	10.3	0.44	5357.9	120.1	10.3	0.0	75%	78.0	1872.9	
1/20/2009	4402	9.8	0.40	5357.8	120.0	9.8	0.0	75%	74.5	1787.3	
1/21/2009	4402	9.8	0.40	5357.7	119.9	9.8	0.0	75%	74.4	1785.8	
1/22/2009	3569	8.0	0.27	5357.6	120.0	8.0	0.0	75%	60.3	1448.1	
1/23/2009	4610	10.3	0.44	5357.5	119.7	10.3	0.0	75%	77.8	1866.6	
1/24/2009	4332	9.7	0.39	5357.5	119.8	9.7	0.0	75%	73.1	1754.9	
1/25/2009	4124	9.2	0.35	5357.4	119.7	9.2	0.0	75%	69.6	1669.6	
1/26/2009	4610	10.3	0.44	5357.3	119.5	10.3	0.0	75%	77.6	1863.5	
1/27/2009	3985	8.9	0.33	5357.2	119.5	8.9	0.0	75%	67.1	1611.0	
1/28/2009	3638	8.1	0.28	5357.2	119.6	8.1	0.0	75%	61.3	1471.3	
1/29/2009	3985	8.9	0.33	5357.6	119.9	8.9	0.0	75%	67.3	1616.4	
1/30/2009	3985	8.9	0.33	5357.0	119.3	8.9	0.0	75%	67.0	1608.3	
1/31/2009	0	0.0	0.00	5356.9	119.5	0.0	0.0	75%	0.0	0.0	52347.0
2/1/2009	4398	9.8	0.40	5356.9	119.1	9.8	0.0	75%	73.9	1772.4	
2/2/2009	4668	10.4	0.45	5356.8	119.0	10.4	0.0	75%	78.3	1878.6	
2/3/2009	4353	9.7	0.39	5356.7	118.9	9.7	0.0	75%	73.0	1751.5	
2/4/2009	3680	8.2	0.28	5356.6	119.0	8.2	0.0	75%	61.7	1480.8	
2/5/2009	4443	9.9	0.41	5356.5	118.7	9.9	0.0	75%	74.3	1784.4	
2/6/2009	4353	9.7	0.39	5356.5	118.7	9.7	0.0	75%	72.9	1748.6	
2/7/2009	3949	8.8	0.32	5356.3	118.6	8.8	0.0	75%	66.0	1584.6	
2/8/2009	4668	10.4	0.45	5356.2	118.4	10.4	0.0	75%	77.9	1869.1	
2/9/2009	4668	10.4	0.45	5356.1	118.3	10.4	0.0	75%	77.8	1867.6	
2/10/2009	3994	8.9	0.33	5356.1	118.4	8.9	0.0	75%	66.7	1599.8	
2/11/2009	3276	7.3	0.23	5356.0	118.4	7.3	0.0	75%	54.7	1312.2	

2/12/2009	3815	8.5	0.30	5355.9	118.2	8.5	0.0	75%	63.6	1525.6	
2/13/2009	3949	8.8	0.32	5355.9	118.2	8.8	0.0	75%	65.8	1579.2	
2/14/2009	3994	8.9	0.33	5355.8	118.1	8.9	0.0	75%	66.5	1595.7	
2/15/2009	3994	8.9	0.33	5355.7	118.0	8.9	0.0	75%	66.4	1594.4	
2/16/2009	4308	9.6	0.38	5355.6	117.9	9.6	0.0	75%	71.6	1717.5	
2/17/2009	4398	9.8	0.40	5355.5	117.7	9.8	0.0	75%	73.0	1751.6	
2/18/2009	3321	7.4	0.23	5355.4	117.8	7.4	0.0	75%	55.1	1323.4	
2/19/2009	3815	8.5	0.30	5355.4	117.7	8.5	0.0	75%	63.3	1519.2	
2/20/2009	4353	9.7	0.39	5355.3	117.5	9.7	0.0	75%	72.1	1730.9	
2/21/2009	3994	8.9	0.33	5355.3	117.6	8.9	0.0	75%	66.2	1589.0	
2/22/2009	3949	8.8	0.32	5355.2	117.5	8.8	0.0	75%	65.4	1569.9	
2/23/2009	4533	10.1	0.42	5355.1	117.3	10.1	0.0	75%	74.9	1798.7	
2/24/2009	4353	9.7	0.39	5355.0	117.2	9.7	0.0	75%	71.9	1726.5	
2/25/2009	3905	8.7	0.32	5354.9	117.2	8.7	0.0	75%	64.5	1548.2	
2/26/2009	3905	8.7	0.32	5354.8	117.1	8.7	0.0	75%	64.5	1546.8	
2/27/2009	3905	8.7	0.32	5354.8	117.1	8.7	0.0	75%	64.5	1546.8	
2/28/2009	3994	8.9	0.33	5354.7	117.0	8.9	0.0	75%	65.9	1580.9	45893.8
3/1/2009	4174	9.3	0.36	5354.6	116.9	9.3	0.0	75%	68.8	1650.1	
3/2/2009	4219	9.4	0.37	5354.5	116.8	9.4	0.0	75%	69.4	1666.3	
3/3/2009	5341	11.9	0.58	5354.5	116.6	11.9	0.0	75%	87.7	2105.6	
3/4/2009	4129	9.2	0.35	5354.3	116.6	9.2	0.0	75%	67.8	1628.2	
3/5/2009	5341	11.9	0.58	5354.0	116.1	11.9	0.0	75%	87.4	2096.6	
3/6/2009	6283	14.0	0.79	5354.0	115.8	14.0	0.0	75%	102.6	2462.0	
3/7/2009	4982	11.1	0.51	5353.9	116.0	11.1	0.0	75%	81.5	1955.2	
3/8/2009	4892	10.9	0.49	5353.9	116.1	10.9	0.0	75%	80.0	1920.2	
3/9/2009	5341	11.9	0.58	5353.7	115.8	11.9	0.0	75%	87.1	2091.2	
3/10/2009	4443	9.9	0.41	5353.6	115.8	9.9	0.0	75%	72.5	1740.8	
3/11/2009	4264	9.5	0.38	5353.5	115.8	9.5	0.0	75%	69.6	1669.5	
3/12/2009	3860	8.6	0.31	5353.4	115.7	8.6	0.0	75%	63.0	1510.9	
3/13/2009	4308	9.6	0.38	5353.4	115.7	9.6	0.0	75%	70.2	1685.5	
3/14/2009	4712	10.5	0.46	5353.3	115.5	10.5	0.0	75%	76.7	1840.8	
3/15/2009	5430	12.1	0.60	5353.2	115.2	12.1	0.0	75%	88.2	2116.8	
3/16/2009	5116	11.4	0.53	5353.1	115.2	11.4	0.0	75%	83.1	1993.7	
3/17/2009	4039	9.0	0.34	5353.0	115.3	9.0	0.0	75%	65.6	1575.3	
3/18/2009	4578	10.2	0.43	5352.3	114.5	10.2	0.0	75%	73.9	1773.1	
3/19/2009	5341	11.9	0.58	5352.2	114.3	11.9	0.0	75%	86.0	2064.1	
3/20/2009	6104	13.6	0.75	5352.0	113.9	13.6	0.0	75%	98.0	2351.3	
3/21/2009	5834	13.0	0.69	5351.6	113.6	13.0	0.0	75%	93.4	2240.9	
3/22/2009	6552	14.6	0.86	5351.6	113.4	14.6	0.0	75%	104.7	2512.9	
3/23/2009	4623	10.3	0.44	5351.4	113.6	10.3	0.0	75%	74.0	1776.2	
3/24/2009	3949	8.8	0.32	5351.2	113.5	8.8	0.0	75%	63.2	1516.4	
3/25/2009	4668	10.4	0.45	5351.1	113.3	10.4	0.0	75%	74.5	1788.6	
3/26/2009	3366	7.5	0.24	5351.0	113.4	7.5	0.0	75%	53.8	1291.1	
3/27/2009	3186	7.1	0.21	5351.0	113.4	7.1	0.0	75%	50.9	1222.5	
3/28/2009	3994	8.9	0.33	5350.9	113.2	8.9	0.0	75%	63.7	1529.5	
3/29/2009	4443	9.9	0.41	5350.9	113.1	9.9	0.0	75%	70.8	1700.2	
3/30/2009	4308	9.6	0.38	5350.8	113.1	9.6	0.0	75%	68.6	1647.6	
3/31/2009	3994	8.9	0.33	5350.7	113.0	8.9	0.0	75%	63.6	1526.8	56649.9
4/1/2009	3949	8.8	0.32	5350.6	112.9	8.8	0.0	75%	62.9	1508.4	
4/2/2009	3949	8.8	0.32	5350.4	112.7	8.8	0.0	75%	62.7	1505.7	
4/3/2009	3949	8.8	0.32	5350.4	112.7	8.8	0.0	75%	62.7	1505.7	
4/4/2009	3994	8.9	0.33	5350.4	112.7	8.9	0.0	75%	63.4	1522.8	
4/5/2009	3860	8.6	0.31	5350.3	112.6	8.6	0.0	75%	61.3	1470.4	
4/6/2009	4623	10.3	0.44	5350.2	112.4	10.3	0.0	75%	73.2	1757.5	
4/7/2009	4623	10.3	0.44	5350.1	112.3	10.3	0.0	75%	73.2	1755.9	
4/8/2009	6059	13.5	0.74	5350.0	111.9	13.5	0.0	75%	95.6	2293.2	
4/9/2009	7136	15.9	1.01	5349.7	111.3	15.9	0.0	75%	112.0	2687.1	
4/10/2009	4219	9.4	0.37	5339.6	101.9	9.4	0.0	75%	60.6	1453.7	
4/11/2009	5386	12.0	0.59	5349.6	111.7	12.0	0.0	75%	84.7	2033.9	
4/12/2009	4757	10.6	0.46	5349.5	111.7	10.6	0.0	75%	74.9	1797.0	
4/13/2009	5161	11.5	0.54	5349.4	111.5	11.5	0.0	75%	81.1	1946.5	

4/14/2009	3411	7.6	0.24	5349.3	111.7	7.6	0.0	75%	53.7	1288.6	
4/15/2009	3860	8.6	0.31	5349.3	111.6	8.6	0.0	75%	60.7	1457.3	
4/16/2009	2424	5.4	0.13	5349.3	111.8	5.4	0.0	75%	38.2	916.6	
4/17/2009	2020	4.5	0.09	5349.3	111.9	4.5	0.0	75%	31.8	764.1	
4/18/2009	2109	4.7	0.10	5349.4	111.9	4.7	0.0	75%	33.3	798.7	
4/19/2009	3142	7.0	0.21	5349.4	111.8	7.0	0.0	75%	49.5	1188.3	
4/20/2009	2738	6.1	0.16	5349.4	111.9	6.1	0.0	75%	43.2	1036.0	
4/21/2009	2603	5.8	0.15	5349.3	111.8	5.8	0.0	75%	41.0	984.3	
4/22/2009	4937	11.0	0.50	5349.3	111.4	11.0	0.0	75%	77.5	1860.9	
4/23/2009	4937	11.0	0.50	5349.2	111.3	11.0	0.0	75%	77.5	1859.2	
4/24/2009	6956	15.5	0.97	5349.1	110.8	15.5	0.0	75%	108.6	2606.5	
4/25/2009	4398	9.8	0.40	5349.1	111.3	9.8	0.0	75%	69.0	1656.4	
4/26/2009	5071	11.3	0.52	5349.2	111.3	11.3	0.0	75%	79.6	1909.5	
4/27/2009	5071	11.3	0.52	5349.2	111.3	11.3	0.0	75%	79.6	1909.5	
4/28/2009	4757	10.6	0.46	5349.3	111.5	10.6	0.0	75%	74.7	1793.8	
4/29/2009	6104	13.6	0.75	5349.3	111.2	13.6	0.0	75%	95.6	2295.6	
4/30/2009	7136	15.9	1.01	5349.2	110.8	15.9	0.0	75%	111.5	2675.0	50238.0
5/1/2009	6597	14.7	0.87	5349.2	111.0	14.7	0.0	75%	103.2	2476.3	
5/2/2009	5251	11.7	0.56	5349.3	111.4	11.7	0.0	75%	82.4	1978.2	
5/3/2009	5206	11.6	0.55	5349.3	111.4	11.6	0.0	75%	81.7	1961.5	
5/4/2009	5520	12.3	0.62	5349.3	111.3	12.3	0.0	75%	86.6	2078.6	
5/5/2009	6463	14.4	0.84	5349.3	111.1	14.4	0.0	75%	101.2	2428.7	
5/6/2009	7360	16.4	1.08	5349.2	110.8	16.4	0.0	75%	114.9	2757.6	
5/7/2009	8482	18.9	1.42	5349.1	110.3	18.9	0.0	75%	131.9	3165.3	
5/8/2009	8213	18.3	1.33	5349.0	110.3	18.3	0.0	75%	127.7	3064.4	
5/9/2009	8886	19.8	1.55	5348.9	110.0	19.8	0.0	75%	137.8	3306.0	
5/10/2009	6687	14.9	0.89	5348.9	110.6	14.9	0.0	75%	104.3	2502.7	
5/11/2009	7001	15.6	0.98	5348.6	110.3	15.6	0.0	75%	108.8	2611.2	
5/12/2009	8213	18.3	1.33	5348.7	110.0	18.3	0.0	75%	127.3	3056.1	
5/13/2009	10188	22.7	2.02	5348.6	109.2	22.7	0.0	75%	156.8	3763.8	
5/14/2009	8662	19.3	1.47	5348.4	109.6	19.3	0.0	75%	133.8	3210.1	
5/15/2009	11803	26.3	2.68	5348.2	108.2	26.3	0.0	75%	179.9	4318.2	
5/16/2009	9874	22.0	1.90	5348.1	108.8	22.0	0.0	75%	151.5	3635.0	
5/17/2009	11579	25.8	2.58	5347.9	108.0	25.8	0.0	75%	176.2	4228.2	
5/18/2009	14003	31.2	3.73	5347.5	106.4	31.2	0.0	75%	210.0	5039.9	
5/19/2009	12611	28.1	3.05	5347.5	107.1	28.1	0.0	75%	190.3	4568.3	
5/20/2009	10188	22.7	2.02	5347.2	107.8	22.7	0.0	75%	154.8	3715.5	
5/21/2009	9066	20.2	1.61	5347.1	108.1	20.2	0.0	75%	138.2	3315.8	
5/22/2009	10592	23.6	2.17	5347.0	107.5	23.6	0.0	75%	160.4	3850.0	
5/23/2009	7405	16.5	1.09	5347.0	108.6	16.5	0.0	75%	113.3	2718.9	
5/24/2009	5745	12.8	0.67	5347.1	109.1	12.8	0.0	75%	88.3	2119.4	
5/25/2009	5969	13.3	0.72	5347.2	109.1	13.3	0.0	75%	91.8	2203.2	
5/26/2009	6822	15.2	0.93	5347.3	109.0	15.2	0.0	75%	104.8	2515.3	
5/27/2009	6104	13.6	0.75	5347.4	109.3	13.6	0.0	75%	94.0	2256.3	
5/28/2009	5745	12.8	0.67	5347.4	109.4	12.8	0.0	75%	88.6	2125.2	
5/29/2009	6867	15.3	0.94	5347.4	109.1	15.3	0.0	75%	105.6	2533.9	
5/30/2009	9245	20.6	1.67	5347.3	108.3	20.6	0.0	75%	141.1	3385.7	
5/31/2009	7630	17.0	1.15	5347.4	108.9	17.0	0.0	75%	117.1	2810.0	93699.2
6/1/2009	8752	19.5	1.50	5347.3	108.4	19.5	0.0	75%	133.7	3209.9	
6/2/2009	5430	12.1	0.60	5348.2	110.2	12.1	0.0	75%	84.4	2024.9	
6/3/2009	4488	10.0	0.41	5349.2	111.4	10.0	0.0	75%	70.5	1691.5	
6/4/2009	5027	11.2	0.52	5350.3	112.4	11.2	0.0	75%	79.6	1911.4	
6/5/2009	5745	12.8	0.67	5351.2	113.2	12.8	0.0	75%	91.6	2199.0	
6/6/2009	7181	16.0	1.03	5351.2	112.8	16.0	0.0	75%	114.2	2740.1	
6/7/2009	6059	13.5	0.74	5352.6	114.5	13.5	0.0	75%	97.8	2346.5	
6/8/2009	5206	11.6	0.55	5353.9	116.0	11.6	0.0	75%	85.1	2042.5	
6/9/2009	4129	9.2	0.35	5354.6	116.9	9.2	0.0	75%	68.0	1632.4	
6/10/2009	5475	12.2	0.61	5353.5	115.5	12.2	0.0	75%	89.2	2139.7	
6/11/2009	3456	7.7	0.25	5353.5	115.9	7.7	0.0	75%	56.4	1354.6	
6/12/2009	4308	9.6	0.38	5357.6	119.9	9.6	0.0	75%	72.8	1746.7	
6/13/2009	4623	10.3	0.44	5358.4	120.6	10.3	0.0	75%	78.6	1885.7	

6/14/2009	4802	10.7	0.47	5359.3	121.5	10.7	0.0	75%	82.2	1973.0	
6/15/2009	5834	13.0	0.69	5360.2	122.2	13.0	0.0	75%	100.4	2410.6	
6/16/2009	6912	15.4	0.95	5361.0	122.7	15.4	0.0	75%	119.5	2868.1	
6/17/2009	8527	19.0	1.43	5361.6	122.8	19.0	0.0	75%	147.6	3542.2	
6/18/2009	7764	17.3	1.19	5362.5	123.9	17.3	0.0	75%	135.6	3255.1	
6/19/2009	9245	20.6	1.67	5362.7	123.7	20.6	0.0	75%	161.1	3867.3	
6/20/2009	7854	17.5	1.22	5363.1	124.5	17.5	0.0	75%	137.8	3308.0	
6/21/2009	7495	16.7	1.11	5363.1	124.6	16.7	0.0	75%	131.6	3159.4	
6/22/2009	10951	24.4	2.32	5364.2	124.5	24.4	0.0	75%	192.2	4612.3	
6/23/2009	6777	15.1	0.92	5364.2	125.9	15.1	0.0	75%	120.3	2886.4	
6/24/2009	7944	17.7	1.25	5364.7	126.1	17.7	0.0	75%	141.2	3388.0	
6/25/2009	8796	19.6	1.52	5365.0	126.1	19.6	0.0	75%	156.4	3752.6	
6/26/2009	7405	16.5	1.09	5365.0	126.6	16.5	0.0	75%	132.1	3169.8	
6/27/2009	6597	14.7	0.87	5365.1	126.9	14.7	0.0	75%	118.0	2831.1	
6/28/2009	8168	18.2	1.32	5365.1	126.4	18.2	0.0	75%	145.5	3492.9	
6/29/2009	10637	23.7	2.19	5365.0	125.4	23.7	0.0	75%	188.1	4513.3	
6/30/2009	11444	25.5	2.52	5364.9	125.0	25.5	0.0	75%	201.6	4839.3	84794.4
7/1/2009	11355	25.3	2.49	5364.8	125.0	25.3	0.0	75%	200.0	4799.0	
7/2/2009	8572	19.1	1.44	5364.7	125.9	19.1	0.0	75%	152.1	3650.3	
7/3/2009	12118	27.0	2.82	5364.6	124.4	27.0	0.0	75%	212.5	5099.6	
7/4/2009	7136	15.9	1.01	5364.7	126.3	15.9	0.0	75%	127.0	3049.1	
7/5/2009	6912	15.4	0.95	5364.9	126.6	15.4	0.0	75%	123.3	2959.3	
7/6/2009	7136	15.9	1.01	5364.9	126.5	15.9	0.0	75%	127.2	3053.9	
7/7/2009	6777	15.1	0.92	5365.0	126.7	15.1	0.0	75%	121.0	2904.8	
7/8/2009	8707	19.4	1.49	5365.1	126.3	19.4	0.0	75%	154.9	3718.1	
7/9/2009	10143	22.6	2.00	5365.0	125.6	22.6	0.0	75%	179.6	4310.4	
7/10/2009	12118	27.0	2.82	5364.7	124.5	27.0	0.0	75%	212.7	5103.7	
7/11/2009	11265	25.1	2.45	5364.7	124.9	25.1	0.0	75%	198.3	4758.7	
7/12/2009	10457	23.3	2.12	5364.7	125.2	23.3	0.0	75%	184.5	4429.0	
7/13/2009	12073	26.9	2.80	5364.6	124.4	26.9	0.0	75%	211.7	5081.6	
7/14/2009	11220	25.0	2.43	5364.5	124.7	25.0	0.0	75%	197.2	4732.9	
7/15/2009	12881	28.7	3.17	5364.3	123.8	28.7	0.0	75%	224.7	5392.2	
7/16/2009	13240	29.5	3.35	5364.1	123.4	29.5	0.0	75%	230.2	5525.8	
7/17/2009	13778	30.7	3.61	5363.9	122.9	30.7	0.0	75%	238.7	5728.8	
7/18/2009	13599	30.3	3.52	5364.0	123.1	30.3	0.0	75%	236.0	5662.9	
7/19/2009	12746	28.4	3.11	5364.0	123.5	28.4	0.0	75%	221.9	5325.7	
7/20/2009	14317	31.9	3.89	5364.3	123.0	31.9	0.0	75%	248.3	5958.6	
7/21/2009	8841	19.7	1.53	5364.7	125.8	19.7	0.0	75%	156.8	3762.3	
7/22/2009	10816	24.1	2.26	5365.3	125.7	24.1	0.0	75%	191.6	4597.8	
7/23/2009	11579	25.8	2.58	5365.2	125.3	25.8	0.0	75%	204.4	4905.8	
7/24/2009	13284	29.6	3.37	5365.1	124.4	29.6	0.0	75%	232.9	5588.5	
7/25/2009	11669	26.0	2.62	5365.0	125.0	26.0	0.0	75%	205.6	4934.4	
7/26/2009	8168	18.2	1.32	5365.0	126.3	18.2	0.0	75%	145.4	3490.1	
7/27/2009	10367	23.1	2.09	5365.0	125.6	23.1	0.0	75%	183.4	4402.8	
7/28/2009	7989	17.8	1.26	5364.9	126.3	17.8	0.0	75%	142.2	3412.2	
7/29/2009	7001	15.6	0.98	5364.9	126.6	15.6	0.0	75%	124.9	2997.2	
7/30/2009	5341	11.9	0.58	5365.2	127.3	11.9	0.0	75%	95.8	2298.9	
7/31/2009	4398	9.8	0.40	5365.3	127.5	9.8	0.0	75%	79.1	1897.4	133531.9
8/1/2009	6193	13.8	0.77	5365.5	127.4	13.8	0.0	75%	111.2	2668.2	
8/2/2009	7405	16.5	1.09	5365.5	127.1	16.5	0.0	75%	132.6	3182.3	
8/3/2009	9156	20.4	1.64	5365.6	126.6	20.4	0.0	75%	163.4	3920.5	
8/4/2009	10322	23.0	2.07	5365.4	126.0	23.0	0.0	75%	183.3	4398.3	
8/5/2009	11085	24.7	2.37	5365.3	125.6	24.7	0.0	75%	196.2	4708.2	
8/6/2009	11085	24.7	2.37	5365.1	125.4	24.7	0.0	75%	195.9	4700.7	
8/7/2009	11085	24.7	2.37	5365.0	125.3	24.7	0.0	75%	195.7	4696.9	
8/8/2009	9963	22.2	1.93	5364.9	125.6	22.2	0.0	75%	176.4	4233.1	
8/9/2009	8303	18.5	1.36	5364.7	126.0	18.5	0.0	75%	147.4	3538.0	
8/10/2009	10547	23.5	2.16	5364.6	125.1	23.5	0.0	75%	185.9	4462.2	
8/11/2009	11444	25.5	2.52	5364.5	124.6	25.5	0.0	75%	201.0	4823.9	
8/12/2009	12342	27.5	2.92	5364.2	123.9	27.5	0.0	75%	215.5	5173.1	
8/13/2009	12342	27.5	2.92	5364.0	123.7	27.5	0.0	75%	215.2	5164.8	

8/14/2009	12207	27.2	2.86	5363.8	123.6	27.2	0.0	75%	212.6	5102.7	
8/15/2009	10547	23.5	2.16	5363.6	124.1	23.5	0.0	75%	184.4	4426.6	
8/16/2009	10592	23.6	2.17	5363.6	124.1	23.6	0.0	75%	185.2	4444.8	
8/17/2009	11669	26.0	2.62	5363.6	123.6	26.0	0.0	75%	203.3	4879.1	
8/18/2009	10233	22.8	2.03	5363.5	124.1	22.8	0.0	75%	179.0	4295.5	
8/19/2009	12073	26.9	2.80	5363.4	123.2	26.9	0.0	75%	209.7	5032.6	
8/20/2009	12297	27.4	2.90	5363.3	123.0	27.4	0.0	75%	213.2	5117.7	
8/21/2009	13105	29.2	3.28	5363.2	122.6	29.2	0.0	75%	226.4	5432.7	
8/22/2009	13240	29.5	3.35	5363.1	122.4	29.5	0.0	75%	228.4	5481.1	
8/23/2009	13823	30.8	3.64	5363.0	122.0	30.8	0.0	75%	237.7	5704.3	
8/24/2009	13958	31.1	3.71	5362.8	121.7	31.1	0.0	75%	239.5	5747.2	
8/25/2009	11534	25.7	2.56	5362.8	122.9	25.7	0.0	75%	199.7	4793.9	
8/26/2009	10053	22.4	1.97	5362.8	123.5	22.4	0.0	75%	174.9	4198.6	
8/27/2009	10233	22.8	2.03	5363.0	123.6	22.8	0.0	75%	178.3	4278.2	
8/28/2009	12791	28.5	3.13	5362.9	122.4	28.5	0.0	75%	220.7	5295.9	
8/29/2009	11759	26.2	2.66	5362.8	122.8	26.2	0.0	75%	203.5	4883.3	
8/30/2009	10726	23.9	2.23	5362.8	123.2	23.9	0.0	75%	186.3	4470.3	
8/31/2009	11893	26.5	2.72	5362.8	122.7	26.5	0.0	75%	205.7	4936.8	144191.2
9/1/2009	12881	28.7	3.17	5362.8	122.3	28.7	0.0	75%	222.0	5326.9	
9/2/2009	12881	28.7	3.17	5362.9	122.4	28.7	0.0	75%	222.1	5331.3	
9/3/2009	11624	25.9	2.60	5362.8	122.8	25.9	0.0	75%	201.2	4829.7	
9/4/2009	13868	30.9	3.66	5362.8	121.8	30.9	0.0	75%	238.0	5712.4	
9/5/2009	12701	28.3	3.09	5362.7	122.3	28.3	0.0	75%	218.8	5252.0	
9/6/2009	11893	26.5	2.72	5362.7	122.6	26.5	0.0	75%	205.5	4932.8	
9/7/2009	13599	30.3	3.52	5362.7	121.8	30.3	0.0	75%	233.5	5603.1	
9/8/2009	11534	25.7	2.56	5362.6	122.7	25.7	0.0	75%	199.4	4786.1	
9/9/2009	12297	27.4	2.90	5362.7	122.4	27.4	0.0	75%	212.2	5092.8	
9/10/2009	10996	24.5	2.34	5362.7	123.0	24.5	0.0	75%	190.6	4574.7	
9/11/2009	11489	25.6	2.54	5362.7	122.8	25.6	0.0	75%	198.8	4772.1	
9/12/2009	9021	20.1	1.59	5362.4	123.4	20.1	0.0	75%	156.9	3766.6	
9/13/2009	7854	17.5	1.22	5362.3	123.7	17.5	0.0	75%	136.9	3286.7	
9/14/2009	8931	19.9	1.56	5362.1	123.2	19.9	0.0	75%	155.0	3721.0	
9/15/2009	9200	20.5	1.66	5361.9	122.9	20.5	0.0	75%	159.3	3824.1	
9/16/2009	10637	23.7	2.19	5361.6	122.0	23.7	0.0	75%	183.0	4391.0	
9/17/2009	9784	21.8	1.86	5361.3	122.1	21.8	0.0	75%	168.3	4039.9	
9/18/2009	11265	25.1	2.45	5361.1	121.3	25.1	0.0	75%	192.6	4621.5	
9/19/2009	10143	22.6	2.00	5360.8	121.4	22.6	0.0	75%	173.6	4166.3	
9/20/2009	9470	21.1	1.75	5360.6	121.5	21.1	0.0	75%	162.1	3891.4	
9/21/2009	7540	16.8	1.13	5360.3	121.8	16.8	0.0	75%	129.4	3106.6	
9/22/2009	5206	11.6	0.55	5360.2	122.3	11.6	0.0	75%	89.7	2153.4	
9/23/2009	4488	10.0	0.41	5360.2	122.4	10.0	0.0	75%	77.4	1858.5	
9/24/2009	4308	9.6	0.38	5360.0	122.3	9.6	0.0	75%	74.2	1781.7	
9/25/2009	4308	9.6	0.38	5360.0	122.3	9.6	0.0	75%	74.2	1781.7	
9/26/2009	4443	9.9	0.41	5360.1	122.3	9.9	0.0	75%	76.6	1838.5	
9/27/2009	5520	12.3	0.62	5360.4	122.4	12.3	0.0	75%	95.2	2285.8	
9/28/2009	5790	12.9	0.68	5360.6	122.6	12.9	0.0	75%	100.0	2400.1	
9/29/2009	7091	15.8	1.00	5360.8	122.4	15.8	0.0	75%	122.4	2936.7	
9/30/2009	6059	13.5	0.74	5361.0	122.9	13.5	0.0	75%	104.9	2518.7	114583.8
10/1/2009	4398	9.8	0.40	5361.3	123.5	9.8	0.0	75%	76.6	1837.9	
10/2/2009	6642	14.8	0.88	5361.5	123.3	14.8	0.0	75%	115.4	2769.2	
10/3/2009	5116	11.4	0.53	5361.7	123.8	11.4	0.0	75%	89.3	2142.5	
10/4/2009	5386	12.0	0.59	5361.9	124.0	12.0	0.0	75%	94.1	2257.9	
10/5/2009	4712	10.5	0.46	5362.2	124.4	10.5	0.0	75%	82.6	1982.6	
10/6/2009	3411	7.6	0.24	5362.5	124.9	7.6	0.0	75%	60.0	1440.9	
10/7/2009	6642	14.8	0.88	5362.8	124.6	14.8	0.0	75%	116.6	2798.4	
10/8/2009	5206	11.6	0.55	5363.0	125.1	11.6	0.0	75%	91.8	2202.7	
10/9/2009	5610	12.5	0.64	5363.1	125.1	12.5	0.0	75%	98.9	2373.9	
10/10/2009	5565	12.4	0.63	5363.4	125.4	12.4	0.0	75%	98.4	2360.7	
10/11/2009	4802	10.7	0.47	5363.6	125.8	10.7	0.0	75%	85.1	2042.8	
10/12/2009	5700	12.7	0.66	5363.8	125.8	12.7	0.0	75%	101.0	2425.0	
10/13/2009	5071	11.3	0.52	5364.0	126.1	11.3	0.0	75%	90.1	2163.4	

10/14/2009	4533	10.1	0.42	5364.2	126.4	10.1	0.0	75%	80.8	1938.3	
10/15/2009	3994	8.9	0.33	5364.4	126.7	8.9	0.0	75%	71.3	1711.9	
10/16/2009	4712	10.5	0.46	5364.7	126.9	10.5	0.0	75%	84.3	2022.5	
10/17/2009	4443	9.9	0.41	5364.9	127.1	9.9	0.0	75%	79.6	1910.6	
10/18/2009	4219	9.4	0.37	5365.1	127.4	9.4	0.0	75%	75.7	1817.5	
10/19/2009	4219	9.4	0.37	5365.4	127.7	9.4	0.0	75%	75.9	1821.8	
10/20/2009	3007	6.7	0.19	5365.7	128.1	6.7	0.0	75%	54.3	1303.4	
10/21/2009	2783	6.2	0.17	5365.7	128.2	6.2	0.0	75%	50.3	1206.4	
10/22/2009	3501	7.8	0.26	5365.6	128.0	7.8	0.0	75%	63.1	1515.4	
10/23/2009	3501	7.8	0.26	5365.6	128.0	7.8	0.0	75%	63.1	1515.4	
10/24/2009	3052	6.8	0.20	5365.5	127.9	6.8	0.0	75%	55.0	1320.7	
10/25/2009	3635	8.1	0.28	5365.5	127.9	8.1	0.0	75%	65.5	1572.2	
10/26/2009	4488	10.0	0.41	5365.3	127.5	10.0	0.0	75%	80.7	1935.9	
10/27/2009	3142	7.0	0.21	5365.3	127.7	7.0	0.0	75%	56.6	1357.3	
10/28/2009	2020	4.5	0.09	5365.3	127.9	4.5	0.0	75%	36.4	873.4	
10/29/2009	3366	7.5	0.24	5365.3	127.7	7.5	0.0	75%	60.6	1453.9	
10/30/2009	0	0.0	0.00	5365.2	127.8	0.0	0.0	75%	0.0	0.0	
10/31/2009	0	0.0	0.00	5365.0	127.6	0.0	0.0	75%	0.0	0.0	54074.6
11/1/2009	3366	7.5	0.24	5365.0	127.4	7.5	0.0	75%	60.4	1450.5	
11/2/2009	4308	9.6	0.38	5365.0	127.3	9.6	0.0	75%	77.3	1854.5	
11/3/2009	4308	9.6	0.38	5364.9	127.2	9.6	0.0	75%	77.2	1853.1	
11/4/2009	3815	8.5	0.30	5364.8	127.1	8.5	0.0	75%	68.4	1640.5	
11/5/2009	3635	8.1	0.28	5364.7	127.1	8.1	0.0	75%	65.1	1562.4	
11/6/2009	3815	8.5	0.30	5364.7	127.0	8.5	0.0	75%	68.3	1639.2	
11/7/2009	4308	9.6	0.38	5364.6	126.9	9.6	0.0	75%	77.0	1848.7	
11/8/2009	4308	9.6	0.38	5364.5	126.8	9.6	0.0	75%	77.0	1847.2	
11/9/2009	4264	9.5	0.38	5364.4	126.7	9.5	0.0	75%	76.1	1826.7	
11/10/2009	4264	9.5	0.38	5364.3	126.6	9.5	0.0	75%	76.1	1825.2	
11/11/2009	3680	8.2	0.28	5364.3	126.7	8.2	0.0	75%	65.7	1576.6	
11/12/2009	3815	8.5	0.30	5364.2	126.5	8.5	0.0	75%	68.0	1632.7	
11/13/2009	3815	8.5	0.30	5364.1	126.4	8.5	0.0	75%	68.0	1631.5	
11/14/2009	3770	8.4	0.30	5364.1	126.4	8.4	0.0	75%	67.2	1612.3	
11/15/2009	4398	9.8	0.40	5364.0	126.2	9.8	0.0	75%	78.3	1878.1	
11/16/2009	4308	9.6	0.38	5364.0	126.3	9.6	0.0	75%	76.7	1840.0	
11/17/2009	4129	9.2	0.35	5363.9	126.2	9.2	0.0	75%	73.4	1762.3	
11/18/2009	3590	8.0	0.27	5363.8	126.2	8.0	0.0	75%	63.8	1532.2	
11/19/2009	3590	8.0	0.27	5363.7	126.1	8.0	0.0	75%	63.8	1531.0	
11/20/2009	3905	8.7	0.32	5363.7	126.0	8.7	0.0	75%	69.3	1664.4	
11/21/2009	4847	10.8	0.48	5363.6	125.8	10.8	0.0	75%	85.9	2061.8	
11/22/2009	3905	8.7	0.32	5363.5	125.8	8.7	0.0	75%	69.2	1661.7	
11/23/2009	4353	9.7	0.39	5363.4	125.6	9.7	0.0	75%	77.1	1850.2	
11/24/2009	3860	8.6	0.31	5363.3	125.6	8.6	0.0	75%	68.3	1640.1	
11/25/2009	4398	9.8	0.40	5363.2	125.4	9.8	0.0	75%	77.8	1866.2	
11/26/2009	4308	9.6	0.38	5363.1	125.4	9.6	0.0	75%	76.1	1826.8	
11/27/2009	3680	8.2	0.28	5363.1	125.5	8.2	0.0	75%	65.1	1561.7	
11/28/2009	3590	8.0	0.27	5363.0	125.4	8.0	0.0	75%	63.4	1522.5	
11/29/2009	3590	8.0	0.27	5363.0	125.4	8.0	0.0	75%	63.4	1522.5	
11/30/2009	3770	8.4	0.30	5362.9	125.2	8.4	0.0	75%	66.5	1597.0	51119.8
12/1/2009	4264	9.5	0.38	5362.8	125.1	9.5	0.0	75%	75.1	1803.6	
12/2/2009	3949	8.8	0.32	5362.9	125.2	8.8	0.0	75%	69.7	1672.7	
12/3/2009	3949	8.8	0.32	5362.9	125.2	8.8	0.0	75%	69.7	1672.7	
12/4/2009	3949	8.8	0.32	5363.0	125.3	8.8	0.0	75%	69.8	1674.1	
12/5/2009	3635	8.1	0.28	5363.0	125.4	8.1	0.0	75%	64.2	1541.5	
12/6/2009	4039	9.0	0.34	5363.1	125.4	9.0	0.0	75%	71.4	1713.3	
12/7/2009	4129	9.2	0.35	5363.1	125.4	9.2	0.0	75%	73.0	1751.1	
12/8/2009	3949	8.8	0.32	5363.2	125.5	8.8	0.0	75%	69.9	1676.7	
12/9/2009	3725	8.3	0.29	5363.1	125.5	8.3	0.0	75%	65.9	1580.6	
12/10/2009	3635	8.1	0.28	5363.1	125.5	8.1	0.0	75%	64.3	1542.7	
12/11/2009	3770	8.4	0.30	5363.0	125.3	8.4	0.0	75%	66.6	1598.3	
12/12/2009	3994	8.9	0.33	5362.9	125.2	8.9	0.0	75%	70.5	1691.6	
12/13/2009	4668	10.4	0.45	5362.8	125.0	10.4	0.0	75%	82.2	1973.3	

12/14/2009	4668	10.4	0.45	5362.8	125.0	10.4	0.0	75%	82.2	1973.3	
12/15/2009	4219	9.4	0.37	5362.7	125.0	9.4	0.0	75%	74.3	1783.3	
12/16/2009	3905	8.7	0.32	5362.6	124.9	8.7	0.0	75%	68.7	1649.8	
12/17/2009	4219	9.4	0.37	5362.5	124.8	9.4	0.0	75%	74.2	1780.4	
12/18/2009	4398	9.8	0.40	5362.4	124.6	9.8	0.0	75%	77.3	1854.3	
12/19/2009	3905	8.7	0.32	5362.4	124.7	8.7	0.0	75%	68.6	1647.2	
12/20/2009	4039	9.0	0.34	5362.3	124.6	9.0	0.0	75%	70.9	1702.3	
12/21/2009	4398	9.8	0.40	5362.2	124.4	9.8	0.0	75%	77.1	1851.3	
12/22/2009	4264	9.5	0.38	5362.1	124.4	9.5	0.0	75%	74.7	1793.5	
12/23/2009	4039	9.0	0.34	5362.1	124.4	9.0	0.0	75%	70.8	1699.6	
12/24/2009	3905	8.7	0.32	5362.0	124.3	8.7	0.0	75%	68.4	1641.9	
12/25/2009	3905	8.7	0.32	5361.9	124.2	8.7	0.0	75%	68.4	1640.6	
12/26/2009	3905	8.7	0.32	5361.9	124.2	8.7	0.0	75%	68.4	1640.6	
12/27/2009	3905	8.7	0.32	5361.8	124.1	8.7	0.0	75%	68.3	1639.3	
12/28/2009	3905	8.7	0.32	5361.7	124.0	8.7	0.0	75%	68.2	1638.0	
12/29/2009	3949	8.8	0.32	5361.7	124.0	8.8	0.0	75%	69.0	1656.7	
12/30/2009	4353	9.7	0.39	5361.6	123.8	9.7	0.0	75%	76.0	1823.7	
12/31/2009	3905	8.7	0.32	5361.6	123.9	8.7	0.0	75%	68.2	1636.6	52944.9

APPENDIX B
OFFICIAL RESOLUTION COMMITMENT LETTER

City of Loveland

Water and Power Department

Service Center • 200 North Wilson Avenue • Loveland, CO 80537
(970) 962-3000 • Fax (970) 962-3400 • TDD (970) 962-2620
www.cityofloveland.org

February 17, 2011

Bureau of Reclamation
Attn: Michelle Maher, Mail Code: 84-27810
Denver Federal Center
6th Avenue and Kipling Street
Denver, CO 80225

Dear Ms. Maher:

On behalf of the City of Loveland, Colorado, I would like to extend our appreciation to the Bureau of Reclamation for the opportunity to submit a WaterSMART grant for construction of the City's water treatment plant renewable energy project. This proposed below ground hydro turbine would connect inline into the existing raw water pipeline flowing from our raw water storage reservoir to our water treatment plant, and would [illegible] self-gene[illegible] for our plant electrical requirements, and ability to use a renewable resource to further our envir[illegible]mental stewardship are key components for increasing our city's level of sustainable operation[illegible] his depa[illegible]ent is proud of its [illegible] (EPA) Region 8 fo[illegible] eir Ener[illegible]Management Pilo[illegible] now has identifi[illegible] his renew[illegible]le energy projec[illegible] ally responsible [illegible]e furthe[illegible]g our energy an[illegible] and now Reclam[illegible]on.

EXPIRED

On M[illegible]h 15, 2011, the Loveland City Council will consi[illegible]ation and dire[illegible] to cooperate with Reclamation to ensure that the City's financial and legal obligations are met, including appropriation of City matching funds and execution of the cooperative agreement with Reclamation. In the interim, please accept this letter as our statement of City staff's commitment to meet the letter and intent of the grant process and to obtain all required City Council approvals and statements of support, including the following:

- That the City Council has reviewed and supports the application.
- That the City has the authority to enter into the grant agreement.
- That the City has the capability to meet the funding and/or in-kind requirements.
- That the City will meet established deadlines for entering into a cooperative agreement with Reclamation for the subject WaterSMART grant.

Thank you for your consideration. Please do not hesitate to contact me if you have any questions regarding the City's application, or if you need any additional information. Our Project Manager for this grant application is John McGee, who can be contacted at (970) 962-3760.

Very truly yours,

Ralph K. Mullinix, Director
Loveland Water and Power

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APPENDIX C
BUDGET INFORMATION – CONSTRUCTION PROGRAMS (SF-424C)

OMB Number: 4040-0008
Expiration Date: 06/30/2014

BUDGET INFORMATION - Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses	$ 62,900.00	$	$ 62,900.00
2. Land, structures, rights-of-way, appraisals, etc.	$ 22,000.00	$	$ 22,000.00
3. Relocation expenses and payments	$	$	$
4. Architectural and engineering fees	$ 157,100.00	$	$ 157,100.00
5. Other architectural and engineering fees	$ 20,000.00	$	$ 20,000.00
6. Project inspection fees	$ 91,400.00	$	$ 91,400.00
7. Site work	$	$	$
8. Demolition and removal	$	$	$
9. Construction	$ 1,142,300.00	$	$ 1,142,300.00
10. Equipment	$	$	$
11. Miscellaneous	$ 165,900.00	$	$ 165,900.00
12. SUBTOTAL *(sum of lines 1-11)*	$ 1,661,600.00	$	$ 1,661,600.00
13. Contingencies	$ 171,400.00	$	$ 171,400.00
14. SUBTOTAL	$ 1,833,000.00	$	$ 1,833,000.00
15. Project (program) income	$	$	$
16. TOTAL PROJECT COSTS *(subtract #15 from #14)*	$ 1,833,000.00	$	$ 1,833,000.00

FEDERAL FUNDING

17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.	Enter eligible costs from line 16c Multiply X 16 %	$ 293,280.00

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Attachment B

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City of Loveland

Water and Power Department

Service Center • 200 North Wilson Avenue • Loveland, CO 80537
(970) 962-3000 • Fax (970) 962-3400 • TDD (970) 962-2620
www.cityofloveland.org

January 22, 2014

Bureau of Reclamation
Acquisition Operations Branch
Attn: Ms. Michelle Maher
Mail Code: 84-27810
P.O. Box 25007
Denver, CO 80225

Dear Ms. Maher:

On behalf of the City of Loveland, Colorado, I would like to extend our appreciation to the Bureau of Reclamation for the opportunity to submit a WaterSMART grant for construction of the City's water treatment plant hydroelectric project.

Since the September 2013 Colorado floods, the City has been actively involved with flood response along with temporary and permanent repairs to the City's utility systems which has had an impact to the timing of this grant submission. The City fully intends to meet Reclamation's requirement for City Council's action to adopt a resolution identifying the City's commitment to the WaterSMART grant.

On February 19, 2014, the Loveland Utility Commission will provide a recommendation for the Loveland City Council to adopt a resolution that will allow the City to enter into an agreement with the Bureau of Reclamation for receipt of WaterSMART funds. The resolution will include information that will direct City staff to cooperate with Reclamation to ensure that the City's financial and legal obligations are met, including appropriation of City matching funds and execution of the cooperative agreement with Reclamation. The City Council meeting for adopting the resolution will be on March 4, 2014. In the interim, please accept this letter as our statement of City staff's commitment to meet the letter and intent of the grant process and to obtain all required City Council approvals and statements of support, including the following:

- That the City Council has reviewed and supports the application.
- That the City has the authority to enter into the grant agreement.
- That the City has the capability to meet the funding and/or in-kind requirements.
- That the City will meet established deadlines for entering into a cooperative agreement with Reclamation for the subject WaterSMART grant.

Thank you for your consideration. Please do not hesitate to contact me if you have any questions regarding the City's application, or if you need any additional information. The City's person of contact for this grant application is John McGee, who can be reached at (970) 222-8060 or john.mcgee@cityofloveland.org

Very truly yours,

Stephen C. Adams

Stephen C. Adams
Water and Power Director

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OMB Number: 4040-0004
Expiration Date: 8/31/2016

Application for Federal Assistance SF-424

* 1. Type of Submission:	* 2. Type of Application:	* If Revision, select appropriate letter(s):
☐ Preapplication	☒ New	
☒ Application	☐ Continuation	* Other (Specify):
☐ Changed/Corrected Application	☐ Revision	

* 3. Date Received:	4. Applicant Identifier:
01/24/2014	

5a. Federal Entity Identifier:	5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:	7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name:	City of Loveland

* b. Employer/Taxpayer Identification Number (EIN/TIN):	* c. Organizational DUNS:
84-6000609	0764814070000

d. Address:

* Street1:	200 North Wilson Avenue
Street2:	
* City:	Loveland
County/Parish:	Larimer
* State:	CO: Colorado
Province:	
* Country:	USA: UNITED STATES
* Zip / Postal Code:	80537

e. Organizational Unit:

Department Name:	Division Name:
Water & Power	

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:	Mr.	* First Name:	John
Middle Name:			
* Last Name:	McGee		
Suffix:			

Title:	Water Treatment Manager
Organizational Affiliation:	
* Telephone Number:	970-962-3760
Fax Number:	
* Email:	John.McGee@cityofloveland.org

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Application for Federal Assistance SF-424

*** 9. Type of Applicant 1: Select Applicant Type:**

C: City or Township Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Bureau of Reclamation - Denver Office

11. Catalog of Federal Domestic Assistance Number:

CFDA Title:

WaterSMART

*** 12. Funding Opportunity Number:**

R14AS00001

* Title:

WaterSMART: Water and Energy Efficiency Grants for FY 2014

13. Competition Identification Number:

R14AS00001

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment | Delete Attachment | View Attachment

*** 15. Descriptive Title of Applicant's Project:**

City of Loveland Water Treatment Plant Hydroelectric Project

Attach supporting documents as specified in agency instructions.

Add Attachments | Delete Attachments | View Attachments

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Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant * b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment | Delete Attachment | View Attachment

17. Proposed Project:

* a. Start Date: * b. End Date:

18. Estimated Funding ($):

* a. Federal	300,000.00
* b. Applicant	1,533,000.00
* c. State	
* d. Local	
* e. Other	
* f. Program Income	
* g. TOTAL	1,833,000.00

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on .

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☐ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**

☐ Yes ☒ No

If "Yes", provide explanation and attach

Add Attachment | Delete Attachment | View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:	Mr.
* First Name:	Stephen
Middle Name:	C.
* Last Name:	Adams
Suffix:	
* Title:	Director of Water and Power
* Telephone Number:	970-962-3559
Fax Number:	
* Email:	steve.adams@cityofloveland.org
* Signature of Authorized Representative:	Stephen C Adams
* Date Signed:	01/22/2014

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ASSURANCES - CONSTRUCTION PROGRAMS

OMB Number: 4040-0009
Expiration Date: 06/30/2014

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant:, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards of merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to non-discrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29) U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statue(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statue(s) which may apply to the application.

COPY

ORIGINAL

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.

14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is $10,000 or more.

15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).

18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

20. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE
Stephen C Adams	DIRECTOR WATER AND POWER
APPLICANT ORGANIZATION	DATE SUBMITTED
CITY OF LOVELAND	1-22-2014

SF-424D (Rev. 7-97) Back

Attachment C

RESOLUTION #R-_____

A RESOLUTION EXPRESSING SUPPORT FOR AN APPLICATION TO THE UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION FOR A WATERSMART PROGRAM GRANT TO PARTIALLY FUND CONSTRUCTION OF THE WATER TREATMENT PLANT HYDROELECTRIC PROJECT

WHEREAS, the City is undertaking a project to …

WHEREAS, the United States Department of the Interior, Bureau of Reclamation ("Reclamation") has a WaterSMART Program that provides grants to water and power providers to cost share on projects that seek to conserve and use water more efficiently, increase the use of renewable energy and improve energy efficiency, benefit endangered and threatened species, facilitate water markets, or carry out other activities to address climate-related impacts on water or prevent any water-related crisis or conflict; and

WHEREAS, on January 22, 2014, the City, acting through its Water and Power Department, filed an application for a WaterSMART grant to partially fund the Project, a copy of which application is attached hereto and incorporated herein by reference ("Application"); and

WHEREAS, the City Council of the City of Loveland desires to express its support for the Application, and its commitment to enter into a grant agreement with Reclamation and appropriate the City's portion of the funds necessary to complete the Project.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF LOVELAND, COLORADO:

Section 1. That the City Council has reviewed and supports the Application.

Section 2. That the City has the authority to enter into an agreement with Reclamation to receive WaterSMART grant funds. The City Council shall approved any such grant agreement by separate resolution, which shall delegate signature authority to the City Manager.

Section 3. That the City has the capability to provide the amount of funding and/or in kind contributions specified in the funding plan included with the Application.

Section 4. That the City will work with Reclamation to meet established deadlines for entering into a grant agreement.

Section 5. That this Resolution shall take effect as of the date of its adoption.

ADOPTED this 4th day of March, 2014.

Cecil A. Gutierrez, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

Assistant City Attorney

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 7
MEETING DATE: 2/19/2014
SUBMITTED BY: Steve Adams, Director MS for SA

TITLE: 2013 Flood Update for the Water & Power Department

DESCRIPTION:
Staff will provide an update on the status of flood recovery efforts.

SUMMARY:
Staff will report on the flood related work that has been performed and the flood related issues currently being worked through during the last month.

RECOMMENDATION:
Staff report only. No action required.

REVIEWED BY DIRECTOR: MS for SA

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 8
MEETING DATE: 2/19/2014
SUBMITTED BY: Tracey Hewson, Customer Relations Business Specialist, Title

TITLE: Update on the Efficiency Works Program and School Grant Awards

DESCRIPTION:
The purpose of this item is to introduce a new energy efficiency program and to give an update on the projects underway in the Energy Efficiency Assistance Program.

SUMMARY:
Efficiency Works is an energy efficiency program born of a collaboration of five Northern Colorado municipally-owned utilities. Water and Power collaborated with PRPA, Fort Collins Utilities, City of Longmont and Town of Estes Park to rebrand our all of our commercial programs and combine them under one umbrella called Efficiency Works. We chose a logo and a branding campaign. We secured a uniform resource locator (URL) address for our website that will serve as a launch page for all four participating cities. We house our lighting program, energy efficient building and recommissioning program, Efficiency Express and Building Tune Up under one umbrella in hopes that our cafeteria plan approach might simplify and increase participation in our programs for our commercial customers, large and small. Efficiency Works offers business customers free technical support and an assessment to identify opportunities that reduce operating costs and environmental impacts by examining existing building systems and equipment.

The Energy Efficiency Assistance Program was designed to educate and actively engage primary and secondary students in energy efficiency and water conservation projects. Two years ago, we invited all public and private Loveland schools to apply for a $5,000 grant from our budget to use for educational materials, classroom presentations, curriculum assistance or behavioral change programs. We offered two $5,000 grants in 2012.

The applications for the two Energy Efficiency Assistance Grants were awarded to Ponderosa Elementary and Thompson Valley High School (TVHS). Both projects this year focused on water conservation, which is a switch from the heavy focus on energy we have seen in the past.

This high school project is an open-air garden project that will provide food in the cafeteria for students. The TVHS project will also include a compost component. We have been working with the 2012 recipient, Erwin Middle School, following the progress of the greenhouse construction. The project has been delayed several times due to weather, but the foundation is complete and when things warm up, the kit will be erected.

RECOMMENDATION:
Staff item only. No action required.

REVIEWED BY DIRECTOR: MS for SH

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 9
MEETING DATE: 2/19/2014
SUBMITTED BY: Jim Lees, Utility Accounting Manager

TITLE: Financial Report Update

DESCRIPTION:
This item summarizes the monthly and year-to-date financials for December 2013.

SUMMARY:
The December 2013 financial reports are submitted for Commission review. The following table summarizes the sales and expense results for the month of December, and the December Year-To-Date results in comparison to the same periods from 2012. The summarized and detailed monthly financial statements that compare December Year-To-Date actuals to the 2013 budgeted figures are attached.

	Dec				Dec Year-To-Date			
	2013	2012	$ Ovr/(Und) vs. 2012	% Ovr/(Und) vs. 2012	2013	2012	$ Ovr/(Und) vs. 2012	% Ovr/(Und) vs. 2012
WATER								
Sales	$543,589	$498,389	$45,201	9.1%	$9,370,468	$9,448,406	($77,938)	-0.8%
Operating Expenses	$1,814,376	$1,299,377	$514,999	39.6%	$8,910,470	$7,353,478	$1,556,992	21.2%
Capital (Unrestricted)	$652,382	$433,166	$219,217	50.6%	$3,175,184	$2,054,068	$1,121,116	54.6%
WASTEWATER								
Sales	$636,541	$568,917	$67,624	11.9%	$7,459,045	$6,946,559	$512,486	7.4%
Operating Expenses	$1,304,367	$944,618	$359,749	38.1%	$6,988,016	$6,045,892	$942,124	15.6%
Capital (Unrestricted)	$263,291	$27,638	$235,654	852.6%	$1,055,701	$1,585,766	($530,065)	-33.4%
POWER								
Sales	$4,151,227	$4,070,618	$80,609	2.0%	$51,747,176	$49,601,066	$2,146,110	4.3%
Operating Expenses	$5,444,166	$5,281,575	$162,591	3.1%	$50,370,638	$46,199,428	$4,171,210	9.0%
Capital (Unrestricted)	$365,590	$1,023,330	($657,740)	-64.3%	$7,294,860	$6,229,837	$1,065,023	17.1%

RECOMMENDATION:
Staff report only. No action required.

REVIEWED BY DIRECTOR: MS for SH

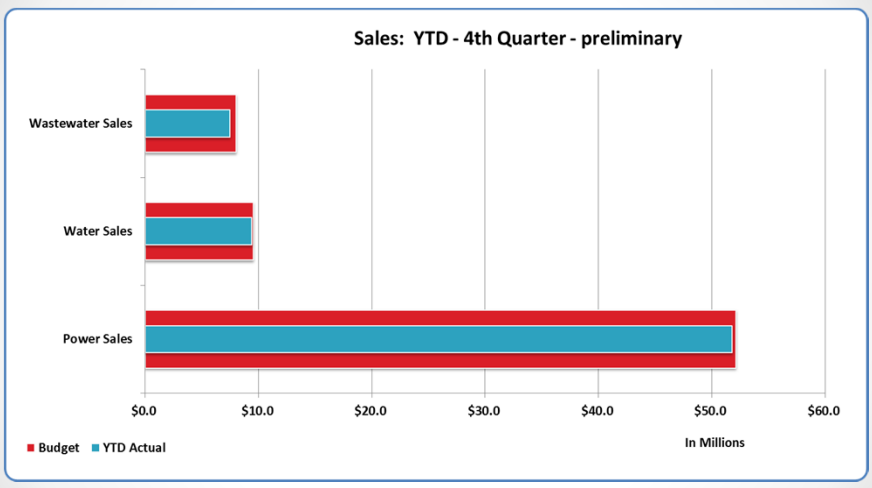
LIST OF ATTACHMENTS:
- Presentation Slides
- City of Loveland Financial Statement-Raw Water
- City of Loveland Financial Statement-Water
- City of Loveland Financial Statement-Wastewater
- City of Loveland Financial Statement-Power

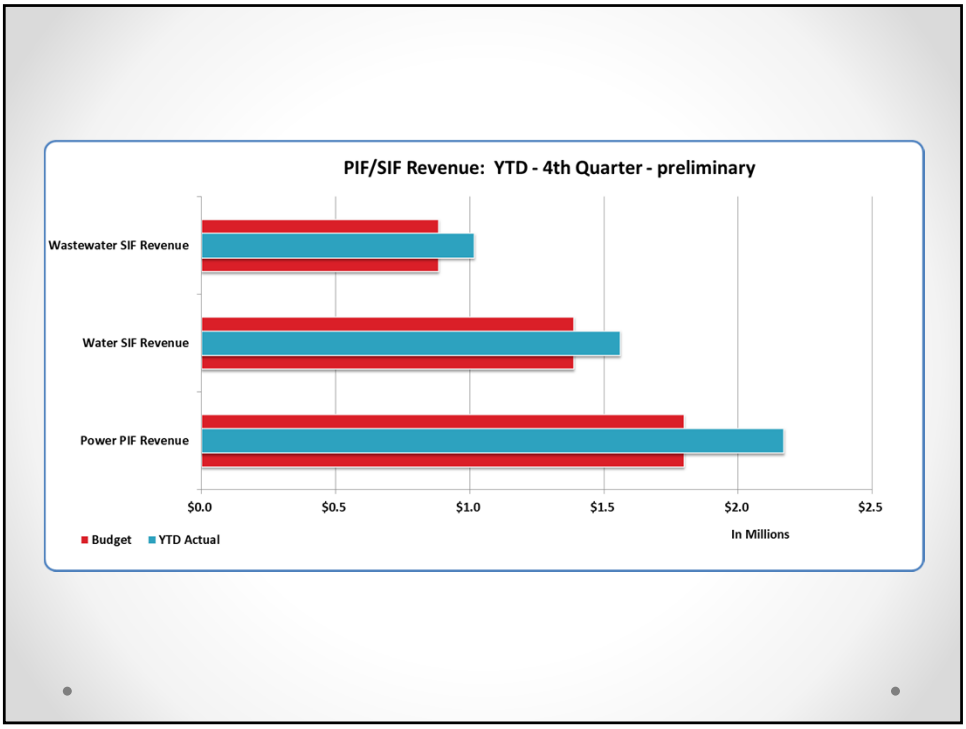
Loveland Water and Power

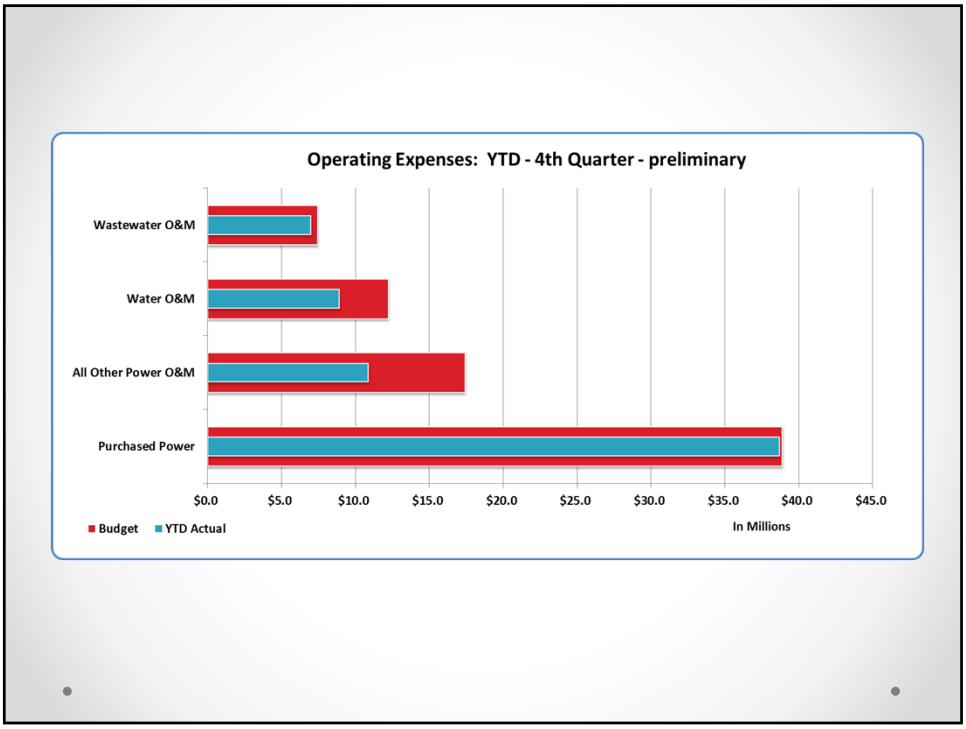
Water & Power Quarterly Financial Report

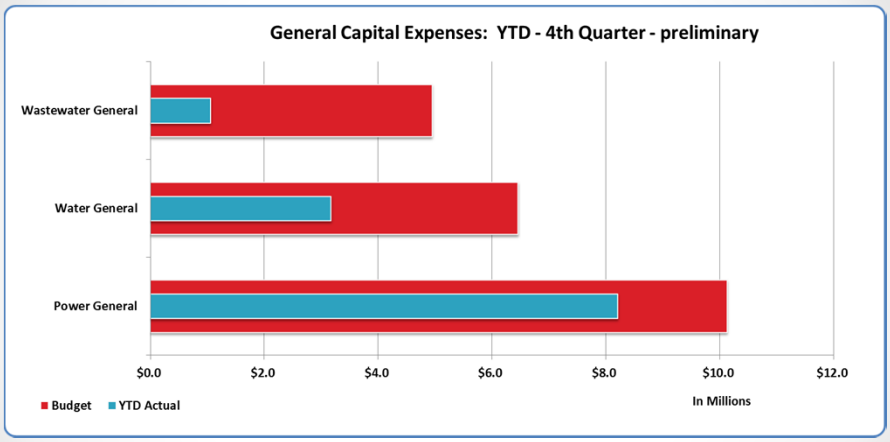
Loveland Utilities Commission

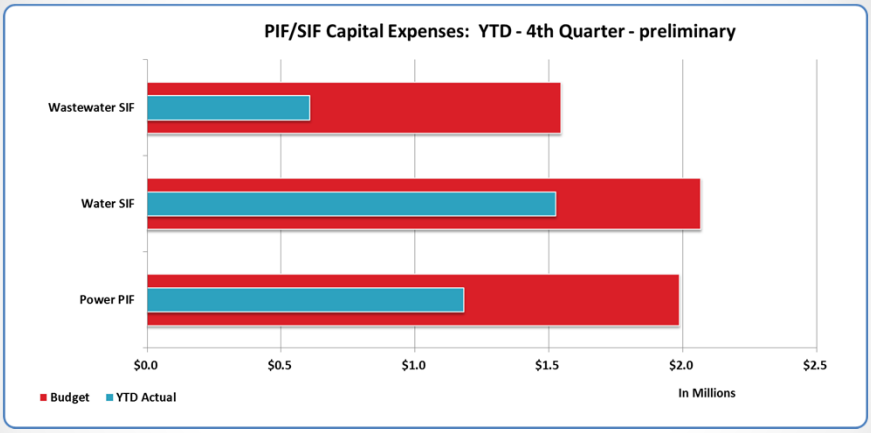
February 19, 2014




PIF/SIF Revenue: YTD - 4th Quarter - preliminary
Wastewater SIF Revenue
Water SIF Revenue
Power PIF Revenue
$0.0
$0.5
$1.0
$1.5
$2.0
$2.5
Budget
YTD Actual
In Millions


Operating Expenses: YTD - 4th Quarter - preliminary
Wastewater O&M
Water O&M
All Other Power O&M
Purchased Power
$0.0
$5.0
$10.0
$15.0
$20.0
$25.0
$30.0
$35.0
$40.0
$45.0
Budget
YTD Actual
In Millions


General Capital Expenses: YTD - 4th Quarter - preliminary
Wastewater General
Water General
Power General
$0.0
$2.0
$4.0
$6.0
$8.0
$10.0
$12.0
In Millions
Budget
YTD Actual


PIF/SIF Capital Expenses: YTD - 4th Quarter - preliminary
Wastewater SIF
Water SIF
Power PIF
$0.0
$0.5
$1.0
$1.5
$2.0
$2.5
In Millions
Budget
YTD Actual

City of Loveland
Financial Statement-Raw Water
For Period Ending 12/31/2013
Preliminary as of 2/7/2014

			TOTAL BUDGET FYE 12/31/2013		YTD ACTUAL	YTD BUDGET	OVER <UNDER>	VARIANCE
1	**REVENUES & SOURCES**	*		*				
		*		*				
2	Hi-Use Surcharge	*	41,800	*	53,140	41,800	11,340	27.1%
3	Raw Water Development Fees/Cap Rec Surcharg	*	248,870	*	336,504	248,870	87,634	35.2%
4	Cash-In-Lieu of Water Rights	*	45,000	*	1,217,652	45,000	1,172,652	2605.9%
5	Native Raw Water Storage Fee	*	5,000	*	50,107	5,000	45,107	902.1%
6	Loan Payback from Wastewate	*	485,000	*	425,346	485,000	(59,654)	-12.3%
7	Raw Water 1% Transfer In	*	709,060	*	694,457	709,060	(14,603)	-2.1%
8	Interest on Investments	*	457,200	*	126,233	457,200	(330,967)	-72.4%
9	**TOTAL REVENUES & SOURCES**	*	**1,991,930**	*	**2,903,440**	**1,991,930**	**911,510**	**45.8%**
		*		*				
10	**OPERATING EXPENSES**	*		*				
		*		*				
11	Windy Gap Payments	*	834,030	*	833,961	834,030	(69)	0.0%
12	**TOTAL OPERATING EXPENSES**	*	**834,030**	*	**833,961**	**834,030**	**(69)**	**0.0%**
		*		*				
13	NET OPERATING REVENUE/(LOSS) (excl depr)	*	1,157,900	*	2,069,479	1,157,900	911,579	78.7%
		*		*				
14	RAW WATER CAPITAL EXPENDITURES	*	2,038,090	*	81,225	2,038,090	(1,956,865)	-96.0%
		*		*				
15	**ENDING CASH BALANCES**	*		*				
		*		*				
16	Total Available Funds	*		*	14,236,132			
17	Reserve - Windy Gap Cash	*		*	4,208,115			
18	Reserve - 1% Transfer From Rates	*		*	2,949,006			
19	Reserve - Native Raw Water Storage Interes	*		*	1,557,100			
		*		*				
20	**TOTAL RAW WATER CASH**	*		*	**22,950,353**			
		*		*				
21	MINIMUM BALANCE (15% OF OPER EXP)	*		*	125,105			
		*		*				
22	OVER/(UNDER) MINIMUM BALANCE	*		*	22,825,249			

NOTE: YTD ACTUAL DOES NOT INCLUDE ENCUMBRANCES TOTALING: $ -

City of Loveland
Financial Statement-Water
For Period Ending 12/31/2013
Preliminary

			TOTAL BUDGET FYE 12/31/2013		YTD ACTUAL	YTD BUDGET	OVER <UNDER>	VARIANCE
1	****UNRESTRICTED FUNDS****	*		*				
		*		*				
2	**REVENUES & SOURCES**	*		*				
		*		*				
3	Water Sales	*	9,516,510	*	9,370,468	9,516,510	(146,042)	-1.5%
4	Raw Water Transfer Out	*	(709,060)	*	(694,457)	(709,060)	14,603	-2.1%
5	Wholesale Sales	*	87,560	*	97,707	87,560	10,147	11.6%
6	Meter Sales	*	28,340	*	70,424	28,340	42,084	148.5%
7	Interest on Investments	*	55,990	*	23,773	55,990	(32,217)	-57.5%
8	Other Revenue	*	16,650,520	*	422,463	16,650,520	(16,228,057)	-97.5%
9	**TOTAL REVENUES & SOURCES**	*	**25,629,860**	*	**9,290,378**	**25,629,860**	**(16,339,482)**	**-63.8%**
		*		*				
10	**OPERATING EXPENSES**	*		*				
		*		*				
11	Source of Supply	*	2,229,530	*	1,146,828	2,229,530	(1,082,702)	-48.6%
12	Treatment	*	2,762,900	*	2,241,381	2,762,900	(521,519)	-18.9%
13	Distribution Operation & Maintenance	*	3,659,020	*	3,093,752	3,659,020	(565,268)	-15.4%
14	Administration	*	659,810	*	587,749	659,810	(72,061)	-10.9%
15	Customer Relations	*	192,950	*	167,088	192,950	(25,862)	-13.4%
16	Debt Service	*	1,000,000	*	0	1,000,000	(1,000,000)	-100.0%
17	PILT	*	640,270	*	607,321	640,270	(32,949)	-5.1%
18	1% for Arts Transfer	*	44,830	*	19,841	44,830	(24,989)	-55.7%
19	Services Rendered-Other Departments	*	1,046,510	*	1,046,510	1,046,510	0	0.0%
20	**TOTAL OPERATING EXPENSES**	*	**12,235,820**	*	**8,910,470**	**12,235,820**	**(3,325,350)**	**-27.2%**
		*		*				
21	NET OPERATING REVENUE/(LOSS)(excl depr)	*	13,394,040	*	379,908	13,394,040	8,652,079	-97.2%
		*		*				
22	CAPITAL EXPENDITURES	*	6,459,230	*	3,175,184	6,459,230	(3,284,046)	-50.8%
		*		*				
23	**ENDING CASH BALANCE**	*		*	**7,513,136**			
		*		*				
24	MINIMUM BALANCE (15% OF OPER EXP)	*		*	1,835,373			
		*		*				
25	OVER/(UNDER) MINIMUM BALANCE	*		*	5,677,763			
		*		*				
26	****RESTRICTED FUNDS****	*		*				
		*		*				
27	**REVENUES & SOURCES**	*		*				
		*		*				
28	SIF Collections	*	1,251,500	*	1,511,768	1,251,500	260,268	20.8%
29	SIF Interest Income	*	137,110	*	49,303	137,110	(87,807)	-64.0%
30	**TOTAL SIF REVENUES & SOURCES**	*	**1,388,610**	*	**1,561,071**	**1,388,610**	**172,461**	**12.4%**
		*		*				
31	SIF Capital Expenditures	*	2,067,910	*	1,526,835	2,067,910	(541,075)	-26.2%
		*		*				
32	**SIF ENDING CASH BALANCE**	*		*	**8,702,496**			
		*		*				
33	**Water Debt Fund Revenues**	*		*	**1,756**	**0**	**1,756**	**0.0%**
		*		*				
34	Water Debt Fund Interest Expense	*		*	1,701	0	1,701	0.0%
35	Water Debt Fund Bond Expense	*		*	77,050	0	77,050	0.0%
36	**TOTAL WATER DEBT FUND EXPENSES**	*		*	**78,751**	**0**	**78,751**	**0**
		*		*				
37	**WATER DEBT FUND ENDING CASH BALANCE**	*		*	**24,386**			
		*		*				
38	**TOTAL ENDING CASH BALANCE**	*		*	**16,240,017**			

NOTE: YTD ACTUAL DOES NOT INCLUDE ENCUMBRANCES TOTALING: $ 5,093,323
THE UNRESTRICTED ENDING CASH BALANCE INCLUDES THE $6 MILLION LOAN FROM POWER. THE LOAN FROM POWER TO WATER WON'T BE REFLECTED IN WATER REVENUE, AS IT WAS A DEBIT TO WATER CASH AND CREDIT TO WATER LOAN PAYABLE.

City of Loveland
Financial Statement-Waste
For Period Ending 12/31/2013
Preliminary as of 2/7/2014

		TOTAL BUDGET FYE 12/31/2013	YTD ACTUAL	YTD BUDGET	OVER <UNDER>	VARIANCE
1	****UNRESTRICTED FUNDS****					
2	**REVENUES & SOURCES**					
3	Sanitary Sewer Charges	8,000,500	7,459,045	8,000,500	(541,455)	-6.8%
4	High Strength Surcharge	245,370	326,137	245,370	80,767	32.9%
5	Interest on Investments	121,770	44,798	121,770	(76,972)	-63.2%
6	Other Revenue	226,330	226,619	226,330	289	0.1%
7	**TOTAL REVENUES & SOURCES**	**8,593,970**	**8,056,600**	**8,593,970**	**(537,370)**	**-6.3%**
8	**OPERATING EXPENSES**					
9	Treatment	3,008,470	2,962,048	3,008,470	(46,422)	-1.5%
10	Collection System Maintenance	2,387,660	2,184,518	2,387,660	(203,142)	-8.5%
11	Administration	380,800	257,426	380,800	(123,374)	-32.4%
12	Customer Relations	13,370	33,917	13,370	20,547	153.7%
13	PILT	552,830	544,071	552,830	(8,759)	-1.6%
14	Interfund Loan Payback to Raw Wate	485,000	425,346	485,000	(59,654)	-12.3%
15	1% for Arts Transfer	26,970	4,119	26,970	(22,851)	-84.7%
16	Services Rendered-Other Department	576,570	576,570	576,570	0	0.0%
17	**TOTAL OPERATING EXPENSES**	**7,431,670**	**6,988,016**	**7,431,670**	**(443,654)**	**-6.0%**
18	NET OPERATING REVENUE/(LOSS)(excl depr)	1,162,300	1,068,584	1,162,300	(93,716)	-8.1%
19	CAPITAL EXPENDITURES	4,950,330	1,055,701	4,950,330	(3,894,629)	-78.7%
20	**ENDING CASH BALANCE**		**7,830,436**			
21	MINIMUM BALANCE (15% OF OPER EXP)		1,114,751			
22	OVER/(UNDER) MINIMUM BALANCE		6,715,686			
23	****RESTRICTED FUNDS****					
24	**REVENUES & SOURCES**					
25	SIF Collections	810,000	985,182	810,000	175,182	21.6%
26	SIF Interest Income	73,690	32,044	73,690	(41,646)	-56.5%
27	**TOTAL SIF REVENUES & SOURCES**	**883,690**	**1,017,226**	**883,690**	**133,536**	**15.1%**
28	SIF Capital Expenditures	1,545,130	608,145	1,545,130	(936,985)	-60.6%
29	**SIF ENDING CASH BALANCE**		**5,603,797**			
30	**TOTAL ENDING CASH BALANCE**		13,434,233			

NOTE: YTD ACTUAL DOES NOT INCLUDE ENCUMBRANCES TOTALING $ 7,015,939

City of Loveland
Financial Statement-Power
For Period Ending 12/31/2013

Preliminary

		*	TOTAL BUDGET	*	YTD ACTUAL	YTD BUDGET	OVER <UNDER>	VARIANCE
	****UNRESTRICTED FUNDS****	*		*				
		*		*				
1	REVENUES & SOURCES:	*		*				
2	Electric revenues	*	$52,078,940	*	$51,747,176	$52,078,940	($331,764)	-0.6%
3	Wheeling charges	*	$210,000	*	$261,479	$210,000	$51,479	24.5%
4	Interest on investments	*	$281,360	*	$113,146	$281,360	($168,214)	-59.8%
5	Aid-to-construction deposits	*	$646,890	*	$963,485	$646,890	$316,595	48.9%
6	Customer deposit-services	*	$124,050	*	$155,124	$124,050	$31,074	25.0%
7	Doorhanger fees	*	$390,000	*	$418,636	$390,000	$28,636	7.3%
8	Connect Fees	*	$125,000	*	$170,493	$125,000	$45,493	36.4%
9	Services rendered to other depts.	*	$30,000	*	$3,203	$30,000	($26,797)	-89.3%
10	Other revenues	*	$223,120	*	$507,127	$223,120	$284,007	127.3%
11	Year-end cash adjustments	*	$0	*	$0	$0	$0	0.0%
12	**TOTAL REVENUES & SOURCES**	*	**$54,109,360**	*	**$54,339,868**	**$54,109,360**	**$230,508**	**0.4%**
		*		*				
13	OPERATING EXPENSES:	*		*				
14	Hydro oper. & maint.	*	$6,087,990	*	$9,327	$6,087,990	($6,078,663)	-99.8%
15	Purchased power	*	$38,917,480	*	$38,710,505	$38,917,480	($206,975)	-0.5%
16	Distribution oper. & maint.	*	$3,632,170	*	$4,629,502	$3,632,170	$997,332	27.5%
17	Customer Relations	*	$975,340	*	$698,801	$975,340	($276,539)	-28.4%
18	Administration	*	$903,070	*	$577,474	$903,070	($325,596)	-36.1%
19	Payment in-lieu-of taxes	*	$3,651,680	*	$3,587,789	$3,651,680	($63,891)	-1.7%
20	1% for Arts Transfer	*	$39,170	*	$27,209	$39,170	($11,961)	-30.5%
21	Services rendered-other depts.	*	$2,130,030	*	$2,130,030	$2,130,030	$0	0.0%
22	**TOTAL OPERATING EXPENSES (excl depn)**	*	**$56,336,930**	*	**$50,370,638**	**$56,336,930**	**($5,966,292)**	**-10.6%**
		*		*				
23	NET OPERATING REVENUE/(LOSS) (excl depn)	*	($2,227,570)	*	$3,969,230	($2,227,570)	$6,196,800	-278.2%
		*		*				
24	CAPITAL EXPENDITURES:	*		*				
25	General Plant/Other Generation & Distribution	*	$9,360,720	*	$6,146,355	$9,360,720	($3,214,365)	-34.3%
26	Aid-to-construction	*	$646,890	*	$877,864	$646,890	$230,974	35.7%
27	Service installations	*	$124,050	*	$270,641	$124,050	$146,591	118.2%
28	**TOTAL CAPITAL EXPENDITURES**	*	**$10,131,660**	*	**$7,294,860**	**$10,131,660**	**($2,836,800)**	**-28.0%**
		*		*				
29	**ENDING CASH BALANCE**	*		*	**$16,487,186**			
		*		*				
30	MINIMUM BAL. (15% of OPER EXP excl depn)	*		*	$8,450,540			
31	OVER/(UNDER) MINIMUM BALANCE	*		*	$8,036,646			
		*		*				
32	****RESTRICTED FUNDS****	*		*				
		*		*				
33	PIF Collections	*	$1,661,920	*	$2,123,062	$1,661,920	$461,142	27.7%
34	PIF Interest Income	*	$137,580	*	$48,928	$137,580	($88,652)	-64.4%
35	**TOTAL REVENUES**	*	**$1,799,500**	*	**$2,171,990**	**$1,799,500**	**$372,490**	**20.7%**
		*		*				
36	PIF Feeders	*	$75,000	*	$0	$75,000	($75,000)	-100.0%
37	PIF Substations	*	$1,912,900	*	$1,182,390	$1,912,900	($730,510)	-38.2%
38	**TOTAL EXPENDITURES**	*	**$1,987,900**	*	**$1,182,390**	**$1,987,900**	**($805,510)**	**-40.5%**
		*		*				
39	**ENDING PIF CASH BALANCE**	*		*	**$3,650,721**			
		*		*				
40	**TOTAL ENDING CASH BALANCE**	*		*	**$20,137,907**			

NOTE: YTD ACTUAL does NOT include encumbrances totalling $895,437
THE ENDING PIF CASH BALANCE INCLUDES THE $6 MILLION LOAN TO WATER. THE LOAN TO WATER FROM POWER WON'T BE REFLECTED IN POWER EXPENSES, AS IT WAS A DEBIT TO POWER LOAN RECEIVABLE AND CREDIT TO POWER PIF CASH.

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 10
MEETING DATE: 2/19/2014
SUBMITTED BY: Kim O'Field, Technical Specialist, Power Division

TITLE: Electric Legislative Update

DESCRIPTION:
This item and the attachment are intended to give a brief update on electric-related legislation being contemplated by the Colorado General Assembly. Loveland staff relies primarily on the Colorado Association of Municipal Utilities (CAMU) for information on electric-related legislation.

SUMMARY:
I have attached the legislative tracking sheet for your review but some recent activity and key state legislation are:

Nonresident Disaster Relief Worker Tax Exemption - HB14-1003 exempts nonresident individuals from the state income tax if they perform disaster emergency-related work in the state on certain infrastructure affected by a declared state disaster emergency or if they provide emergency service work related to the disaster emergency. The exemption is only effective for work performed from the time the governor declares a disaster emergency through 60 days after the declaration expires. Conforming amendments are made to the statutes governing the filing of income tax returns by and the withholding of state income tax for these individuals.

Hydroelectric Generation Incentive - HB14-1030 seeks to include "community hydroelectric" projects into the community solar garden statutes. As drafted this bill seeks to delete the municipal solar garden exemption.

Public Utility Endangerment - SB14-049 seeks to make vandalism of an electric facility with energy in excess of 30k volts a Class 3 Felony.

Prohibit the use of PILOTs - SB14-089 prohibits political subdivisions of the state from making any payment-in-lieu of taxes.

Plug-in Electric Motor Vehicle Definition - HB14-1027 clarifies the catch-all component of the definition of a plug-in electric vehicle to ensure that it is not too expansive.

Expand Electric Vehicle Charging Station Grants - SB14-028 expands the existing list of persons and entities that are eligible to receive moneys from the electric vehicle grant fund, administered by the Colorado energy office (CEO), by adding private businesses and nonprofits

and allowing the CEO to consider the extent to which grant applicants' proposed charging locations serve existing vehicles or encourages the acquisition of new vehicles.

As was anticipated, there have been several bills introduced seeking to make alterations to the Colorado Renewable Energy Standard in response to HB13-252. These bills are being monitored for their effect on municipal utilities and to date all the bills introduced have been "Postponed Indefinitely" in their first committee hearings.

Metrics:
Total bills introduced (01/30): 352
Total bills tracked: 18 (.05% of total)

Positions on Active Bills:
Monitor – 13
Support – 3
Oppose – 0
Amend – 2

RECOMMENDATION:
Information item only. No action required.

REVIEWED BY DIRECTOR: MS for SH

ATTACHMENTS:
CAMU Legislative Tracking Sheet

Colorado Assn. of Municipal Utilities
2014 State Legislation of Interest

CAMU

HB14-1003 Nonresident Disaster Relief Worker Tax Exemption

Comment:

Position: **Monitor**

Short Title: Nonresident Disaster Relief Worker Tax Exemption

Sponsors: NORDBERG / KEFALAS

Summary: Individuals from other states are currently liable to pay Colorado income tax on income derived from all sources within Colorado. The bill exempts nonresident individuals from the state income tax if they perform disaster emergency-related work in the state on certain infrastructure that has been affected by a declared state disaster emergency or if they provide emergency service work related to the disaster emergency. The exemption is only effective for work performed from the time the governor declares a disaster emergency through 60 days after the declaration expires. Conforming amendments are made to the statutes governing the filing of income tax returns by and the withholding of state income tax for these individuals.

Status: 01/29/2014 House Committee on Finance Refer Amended to Appropriations

Amendments:

Status History: Status History

HB14-1027 Plug-in Electric Motor Vehicle Definition

Comment:

Position: **Support**

Short Title: Plug-in Electric Motor Vehicle Definition

Sponsors: FISCHER / JONES

Summary: Transportation Legislation Review Committee. For purposes of registering a motor vehicle, a "plug-in electric motor vehicle" is defined to include motor vehicles that are certified to be eligible for a particular federal tax credit and a catch-all provision that applies to other vehicles; for example, one that is retrofitted to be a plug-in electric vehicle. The bill clarifies the catch-all component of the definition to ensure that it is not too expansive.

Status: 02/11/2014 Senate Third Reading Passed

Amendments:

Status History: Status History

HB14-1030	Hydroelectric Generation Incentive
Comment:	
Position:	**Monitor**
Short Title:	Hydroelectric Generation Incentive
Sponsors:	CORAM / SCHWARTZ
Summary:	Water Resources Review Committee. In order to promote the construction and operation of hydroelectric energy facilities in Colorado, the bill provides the following incentives: * Section 1 of the bill requires the state electrical board to approve the installation of a motor as a generator for a hydroelectric energy facility if the installation would be approved but for the fact that the motor is not being used in a manner commensurate with its nameplate; * Section 2 authorizes the department of natural resources to serve as the coordinating state agency for obtaining and compiling state agency comments about an application for a license or license exemption from the federal energy regulatory commission; and * Section 3 incorporates community hydroelectric energy facilities into the community solar garden statute, so that a group of community members may jointly subscribe to and receive electricity from a small hydroelectric energy facility located in or near the community.
Status:	02/10/2014 House Second Reading Laid Over Daily
Amendments:	
Status History:	Status History

HB14-1067	Renewable Energy Electric Std REAs Move To 2025
Comment:	
Position:	**Monitor**
Short Title:	Renewable Energy Electric Std REAs Move To 2025
Sponsors:	CONTI / CROWDER
Summary:	The bill changes the target date to achieve the renewable component of the energy generation portfolio of retail cooperative electric associations serving 100,000 or more customers, and qualifying wholesale utilities, which date was established in S.B. 13-252, from 2020 to 2025.
Status:	01/29/2014 House Committee on Transportation & Energy Postpone Indefinitely
Amendments:	
Status History:	Status History

HB14-1113	Electric Renewable Energy Standard Reduction
Comment:	
Position:	**Monitor**
Short Title:	Electric Renewable Energy Standard Reduction
Sponsors:	SCOTT
Summary:	The public utilities commission is required to establish electric resource standards. These standards must set the minimum percentage of electricity that retail electric

service providers in Colorado must generate or cause to be generated from recycled energy and renewable energy resources. The bill reduces the minimum percentage of renewable energy required of investor-owned utilities from 20% to 15% for the years 2015 through 2019 and from 30% to 15% for the years 2020 and thereafter. The bill also reduces the minimum amounts for cooperative electric associations from 20% to 15% for the years 2020 and thereafter.

Status: 01/30/2014 House Committee on Transportation & Energy Postpone Indefinitely

Amendments:

Status History: Status History

HB14-1129 State Provide Utilities Facility Info To Local Gov

Comment:

Position: **Monitor**

Short Title: State Provide Utilities Facility Info To Local Gov

Sponsors: LEBSOCK

Summary: Public utilities and power authorities file applications with local governments to seek approval for the location, construction, or improvement of major electrical or natural gas facilities. After an application is filed, the local government can currently ask the public utility or power authority to provide additional information. The bill allows the local government to also ask a state agency to provide additional information within a specified deadline.

Status: 02/11/2014 House Third Reading Passed

Amendments:

Status History: Status History

HB14-1138 Renewable Energy Std Add Hydroelectric To Eligible

Comment:

Position: **Monitor**

Short Title: Renewable Energy Std Add Hydroelectric To Eligible

Sponsors: HUMPHREY / TOCHTROP

Summary: The bill amends the definition of "renewable energy resources"that can be used to meet the state's renewable energy standard to include hydroelectricity and pumped hydroelectricity.

Status: 02/05/2014 House Committee on Transportation & Energy Postpone Indefinitely

Amendments:

Status History: Status History

HB14-1193 Research Retrieval Fees Public Records Under CORA

Comment:

Position: **Amend**

Short Title: Research Retrieval Fees Public Records Under CORA

Sponsors: SALAZAR / KEFALAS

Summary: The bill allows a custodian of public records under the "Colorado Open Records Act"

to impose a fee in response to a request for the research and retrieval of such records only if the custodian has, prior to the date of receiving the request, either posted on the custodian's web site or otherwise published a written policy that specifies the applicable conditions concerning the research and retrieval of public records by the custodian. Any fee the custodian charges the requestor for the research and retrieval of public records must be nominal in comparison to the time the custodian spends responding to the volume of requests. The bill prohibits the custodian under any circumstances from charging an hourly fee for the research and retrieval of public records that exceeds three times the state minimum wage.

Status: 01/30/2014 Introduced In House - Assigned to Local Government

Amendments:

Status History: Status History

HB14-1216 **Safety Markings For Rural Towers Under 200 Feet**

Comment:

Position: **Amend**

Short Title: Safety Markings For Rural Towers Under 200 Feet

Sponsors: SONNENBERG / BROPHY

Summary: Towers under 200 feet in height are not currently regulated by the federal aviation administration and, consequently, may not have certain safety markings that are required for taller towers. The bill creates specified safety marking requirements for towers located in rural areas of the state, including the marking of guy wires supporting the towers and painting the towers in alternating colors. Previously constructed towers are given one year to comply with the requirements of the bill. Noncompliance with the requirements constitutes a misdemeanor.

Status: 01/30/2014 Introduced In House - Assigned to Transportation & Energy

Amendments:

Status History: Status History

HB14-1222 **Clean Energy Project Private Activity Bonds**

Comment:

Position: **Monitor**

Short Title: Clean Energy Project Private Activity Bonds

Sponsors: MCLACHLAN

Summary: Current law allows a county to issue private activity bonds on behalf of a property owner or group of property owners who do not own an entire cooperative electric association (eligible applicant) for the purpose of constructing, expanding, or upgrading an eligible clean energy project on the eligible applicant's property. The bill reduces the minimum amount of private activity bonds that a county may issue for an eligible applicant from $1 million to $500,000, extends the maximum repayment term for bonds from 10 years to 15 years, and allows the bonds to be correlated to the revenue stream of the project up to 75% so long as bond payments do not exceed 75% of project revenue.

Status: 01/30/2014 Introduced In House - Assigned to Transportation & Energy

Amendments:

Status History: Status History

HB14-1258	Respondents' Legal Rights IEC Complaints
Comment:	
Position:	**Monitor**
Short Title:	Respondents' Legal Rights IEC Complaints
Sponsors:	STEPHENS
Summary:	The bill provides the following protections to public officers, members of the general assembly, local government officials, or government employees (IEC respondents) where a complaint against such individuals alleging official misconduct has been filed with the independent ethics commission (IEC): * Section 2 of the bill waives principles of sovereign immunity to make any member of the IEC (commissioner) personally liable for participating in a violation of the legal rights of an IEC respondent under the United States or state constitution or under state law if: * The legal rights of a particular respondent that were violated were clearly established at the time of the violation; and * The act or omission causing the violation was reckless, intentional, or willful. * The bill specifies that a commissioner has not participated in a violation if the commissioner abstained from the act or omission causing the violation. * Section 4 of the bill requires the IEC to offer any IEC respondent at the expense of the state a legal defense to any complaint filed against the respondent. This section of the bill prohibits the IEC from conducting a public hearing on the complaint without first confirming that the IEC respondent has been offered a legal defense at state expense. This section of the bill also makes the commissioners of the IEC jointly and severally liable, in their personal capacities, for participating in any violation of these requirements of the bill if the act or omission causing the violation was reckless, intentional, or willful. * Once the commission has made a determination that a complaint filed against an IEC respondent is not frivolous, the bill requires the IEC to promptly mail to the respondent written notice of the legal elements of the ethical violation that is the basis of the complaint. * Upon the completion of its investigation, if the IEC determines that the IEC respondent may have committed one or more additional ethical violations beyond those identified in the complaint, the bill requires the IEC to: * Prior to any public hearing on the additional violation, promptly mail to the respondent written notice of the legal elements of the additional violation; and * Defer holding a public hearing on the additional violation until a period after the notice has been served upon the IEC respondent and to defer issuing any findings and determinations on the additional violation until it has conducted the public hearing. * The IEC commissioners are jointly and severally liable, in their personal capacities, for participating in any violations of the requirements of the bill relating to notice of the elements of the complaint if the act or omission causing the violation was reckless, intentional, or willful. * Finally, during the pendency of a complaint, the bill allows an IEC respondent to seek injunctive relief in federal court against any further violation of his or her legal rights arising under federal law.
Status:	02/03/2014 Introduced In House - Assigned to State, Veterans, & Military Affairs
Amendments:	
Status History:	Status History

SB14-011 Colorado Energy Research Authority

Comment:

Position: **Monitor**

Short Title: Colorado Energy Research Authority

Sponsors: HEATH / HULLINGHORST

Summary: The bill changes the name of the Colorado renewable research authority to the Colorado energy research authority (authority) and makes the following changes to the authority:
* Names the chancellor of the university of Colorado at Boulder as an ex officio member, instead of the president of the university of Colorado;
* Makes 2 of the governor's appointments to the authority board mandatory, instead of permissive;
* Identifies the consortium that receives allocations from the authority as the Colorado energy research collaboratory (collaboratory);
* Permits the authority to undertake various promotional and educational activities, rather than requiring it to do so;
* Permits the authority to promote the collaboratory's activities in order to increase the federal energy research funding and energy-related research funding;
* Modifies the information to be included in the authority's annual report and requires the report to be delivered to the Colorado office of economic development (office) instead of legislative committees; and
* Substitutes "clean energy" for "renewable energy". The bill also creates the energy research cash fund. The state treasurer is required to transfer $2 million at the beginning of the next 5 fiscal years, and these transfers will be included in the annual general appropriation act for informational purposes. The moneys in the fund are continuously appropriated to the office for its administrative expenses and for the purpose of distributing moneys to the authority for use as state matching funds and for the authority's other permitted activities. The office may not distribute any moneys to the authority for use as state matching funds unless the office receives proof of the other matching funds. The authority may not use more than $100,000 per year for its other permitted activities. Following a fiscal year when the office distributed money to the authority, the office is required to submit a report to the legislative committees summarizing all of the distributions made during the preceding fiscal year. The report must include any information provided to the office by the authority in its report.

Status: 01/30/2014 Senate Committee on Agriculture, Natural Resources, & Energy Refer Unamended to Finance

Amendments:

Status History: Status History

SB14-028 Expand Electric Vehicle Charging Station Grants

Comment:

Position: **Support**

Short Title: Expand Electric Vehicle Charging Station Grants

Sponsors: JONES / DURAN

Summary: The bill expands the existing list of persons and entities that are eligible to receive moneys from the electric vehicle grant fund, administered by the Colorado energy office (CEO), by adding private businesses and nonprofits and allowing the CEO to consider the extent to which grant applicants' proposed charging locations serve

existing vehicles or encourages the acquisition of new vehicles.

Status: 01/28/2014 Introduced In House - Assigned to Transportation & Energy

Amendments:

Status History: Status History

SB14-035 Renewable Energy Std Repeal SB 13-252

Comment:

Position: **Monitor**

Short Title: Renewable Energy Std Repeal SB 13-252

Sponsors: HARVEY / SAINE

Summary: In Colorado's renewable energy portfolio statute, the bill repeals substantially all of the provisions enacted by Senate Bill 13-252. Specifically, the bill reverses those provisions in the following areas:
* For cooperative electric associations serving 100,000 or more meters, for which the renewable portfolio standard for 2020 had been increased from 10% to 20%, the standard returns to 10%;
* Senate Bill 13-252's expansion of the definition of eligible energy resources is curtailed by eliminating coal mine methane and synthetic gas produced by pyrolysis of municipal waste;
* A multiplier in the formula for calculation of renewable energy credits used to accelerate the construction of new solar generation, which multiplier would have expired in 2015 under Senate Bill 13-252, is retained;
* The maximum permissible retail rate impact of compliance with the standards, which Senate Bill 13-252 increased from 1% to 2% for cooperative electric associations, returns to 1%;
* Senate Bill 13-252's additional carve-outs for distributed generation are eliminated; and
* Reporting requirements and portfolio standards for cooperative electric associations that sell electricity wholesale (qualifying wholesale utilities) are eliminated. The bill leaves intact the portions of Senate Bill 13-252 that removed preferences for energy generated in Colorado, which had engendered litigation alleging an undue burden on interstate commerce.

Status: 01/15/2014 Senate Committee on State, Veterans, & Military Affairs Postpone Indefinitely

Amendments:

Status History: Status History

SB14-049 Public Transportation And Utility Endangerment

Comment:

Position: **Support**

Short Title: Public Transportation And Utility Endangerment

Sponsors: HEATH / PRIOLA

Summary: Tampering with a public transportation facility with the intent to cause damage, malfunction, or nonfunction is a crime. The bill amends the crime of endangering public transportation to include the intent to steal material or remove material from the public transportation facility as additional ways to commit the crime. The bill clarifies that endangering public transportation applies to both freight and passenger trains. The

bill creates the crime of endangering utility transmission if someone tampers with a utility transmission facility with the intent to cause damage, malfunction, nonfunction, theft, or unauthorized removal of material. The crime is a class 3 felony.

Status: 01/29/2014 Senate Committee on Judiciary Refer Unamended to Appropriations

Amendments:

Status History: Status History

SB14-070 Application CORA Assns Elected Officials

Comment:

Position: **Monitor**

Short Title: Application CORA Assns Elected Officials

Sponsors: LUNDBERG

Summary: The bill modifies the definition of "public records" under the "Colorado Open Records Act" to include all writings made, maintained, or kept by a private association whose membership consists primarily of elected officials of one or more political subdivisions of the state or individuals holding a covered state office, as applicable, and that receives at least 10% of its revenues on an annual basis from public moneys.

Status: 01/27/2014 Senate Committee on Judiciary Postpone Indefinitely

Amendments:

Status History: Status History

SB14-082 Renewable Energy Std Adjust REAs Distributed Gen

Comment:

Position: **Monitor**

Short Title: Renewable Energy Std Adjust REAs Distributed Gen

Sponsors: GRANTHAM

Summary: In the section of the renewable energy standard statute setting aside a specific portion of electric generating capacity that cooperative electric associations must meet through distributed generation, the bill:
* Eliminates the disparity between cooperative electric associations serving fewer than 10,000 meters and those serving 10,000 or more meters;
* Establishes a uniform 0.5% of total retail electricity sales as the target percentage for distributed generation; and
* Allows the 0.5% to be measured collectively among these associations as a group rather than individually.

Status: 02/10/2014 Senate Committee on State, Veterans, & Military Affairs Postpone Indefinitely

Amendments:

Status History: Status History

SB14-089 Prohibit State Agreements Payment In Lieu Of Tax

Comment:

Position: **Monitor**

Short Title: Prohibit State Agreements Payment In Lieu Of Tax

Sponsors:	SCHWARTZ / FISCHER
Summary:	Bill amended in Senate Committee to address CAMU concerns.
Status:	02/10/2014 Introduced In House - Assigned to Finance
Amendments:	
Status History:	Status History

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
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AGENDA ITEM: 11
MEETING DATE: 2/19/2014
SUBMITTED BY: Scott Dickmeyer, Staff Engineer – Water Resources

TITLE: Water Legislative Update

DESCRIPTION:
This item and the attachment are intended to give a brief update on water-related legislation being contemplated by the Colorado General Assembly. Loveland staff relies primarily on the Colorado Water Congress for information on water-related legislation. Their assistance has proved invaluable in providing the following information.

SUMMARY:
The Second Regular Session of the Sixty-ninth Colorado General Assembly convened on January 8, 2014 and will run through May 7, 2014. The Colorado Water Congress, through its State Affairs Committee, is currently tracking house and senate bills related to water. Attached is an extensive Bill dossier documenting relevant actions.
Of these, there are a few bills that City Staff finds interesting to Loveland:

1. HB-14-1030 Concerning the Establishment of Incentives for the Development of Hydroelectric Energy Systems
2. SB-14-017 Concerning a Limitation on the Approval of Real Estate Developments that Use Water Rights Decreed for Agricultural Purposes to Irrigate Lawn Grass
3. SB-14-023 Concerning an Authorization of the Voluntary Transfer of Water Efficiency Savings to the Colorado Water Conservation Board for Instream Use Purposes in Water Divisions that Include Lands West of the Continental Divide

RECOMMENDATION:
Information item only. No action required.

REVIEWED BY DIRECTOR: MS for SH

ATTACHMENTS:
Colorado Water Congress, State Affairs Committee, Water Bill Summaries, January 30, 2014.

Colorado Water Congress
State Affairs Committee
Water Bill Summaries
January 30, 2014

For purpose of accuracy and clarity of intent, the initial summaries of bills are those prepared by the legislative staff bill drafter and are noted "As introduced". When amended in committee or during floor debate, the summaries are revised to reflect those changes with amendments noted in italics. Summaries will be removed when the bills are killed in committee or lost in floor vote. *Summaries are intended to be descriptive and are not a legal analysis.* ***For up to date bill status, please refer to the CWC status sheet. Bill summaries remain essentially unchanged because almost none have had a committee hearing and only one bill has been amended. These bill summaries are current as of January 30, 2014.***

HB14-1002 CONCERNING THE ESTABLISHMENT OF A GRANT PROGRAM UNDER THE "COLORADO WATER QUALITY CONTROL ACT" TO REPAIR WATER INFRASTRUCTURE IMPACTED BY A NATURAL DISASTER, AND, IN CONNECTION THEREWITH, MAKING AN APPROPRIATION

As introduced: The bill creates a natural disaster grant fund and directs the division of administration in the department of public health and environment (division) to award grants from the fund to local governments, including local governments accepting grants on behalf of and in coordination with not-for-profit public water systems, under rules promulgated by the water quality control commission for the planning, design, construction, improvement, renovation, or reconstruction of domestic wastewater treatment works and public drinking water systems that have been impacted, damaged, or destroyed in connection with a natural disaster. The division may only award grants to be used in counties for which the governor has declared a disaster emergency by executive order or proclamation under section 24-33.5-704, C.R.S. The division is required to award grants for the 2014-15 fiscal year and, as needed, for the 2015-16 fiscal year, to eligible local governments that have domestic wastewater treatment works, public drinking water systems, or on-site wastewater treatment systems impacted, damaged, or destroyed in connection with the flood of September 2013. The bill appropriates $12,000,000 to the fund. On September 1, 2015, the state treasurer is directed to transfer any unencumbered moneys remaining in the fund to the nutrients grant fund.

Sponsors: Rep. Young/Sen. Jones

HB14-1005 CONCERNING CLARIFICATION OF THE REQUIREMENTS APPLICABLE TO A CHANGE OF POINT OF WATER DIVERSION.

As introduced: A statute enacted in 1881 allows the owner of a ditch to relocate the ditch's headgate if changes to the stream prevent the headgate from effectuating the diversion. The "Water Right Determination and Administration Act of 1969" (1969 act) requires changes of water rights, including changes of points of diversion, to be adjudicated. The 1969 act does not exempt changes authorized by the 1881 act. The bill clarifies that a water right owner may relocate a ditch headgate pursuant to the 1881

act without filing for a change of water right under the 1969 act if the relocation does not physically interfere with the complete use or enjoyment of other water rights.

Sponsors: Reps. Sonnenberg and Young/ Sens. Lundberg and Kefalas

HB14-1026 CONCERNING THE AUTHORIZATION OF FLEXIBLE WATER MARKETS
(formerly designated interim committee Bill B)

Water Resources Review Committee. **As introduced**: Under the anti-speculation doctrine, current water court proceedings governing an application to change the beneficial use of an irrigation water right require the applicant to designate a specific alternative beneficial use identified at the time of the application. The bill creates a more flexible change-in-use system by allowing an applicant who seeks to implement fallowing, regulated deficit irrigation, reduced consumptive use cropping, or other alternatives to the permanent dry-up of irrigated lands to apply for a change in use to any beneficial use, without designating the specific beneficial use to which the water will be applied. Section 1 of the bill defines "flex use" to mean an application of the fully consumptive portion of water that has been subject to a water right change-in-use proceeding to any beneficial use. It also redefines "appropriation" to exclude flex use from the anti-speculation doctrine. Sections 2 and 3 describe the procedures for obtaining a flex use change-in-use decree and a flex use substitute water supply plan.

Amended in committee clarifying that flexible consumptive use includes the return flows associated with historic use of the water right lawfully appropriated in a change case quantifying the fully consumptive use portion of the right in time, place and amount. The flexible right must be put to beneficial use which could include a compact obligation within the water division of the historic use. The water court retains jurisdiction to reconsider, and may set terms and conditions. If irrigation ceases on the entire property for three consecutive years, the flexible use right is nullified without further action by the water judge. The right may then be used only for irrigation unless the owner of the right proceeds with a new change of use case.

Sponsors: Rep. Fischer/Sen. Schwartz

HB14-1028 CONCERNING A LIMITATION ON THE UNITED STATES' ABILITY TO IMPOSE CONDITIONS ON A WATER RIGHT OWNER IN EXCHANGE FOR PERMISSION TO USE LAND (formerly designated interim committee Bill E)

Water Resources Review Committee. **As introduced**: The bill specifies that if the United States obtains a water right as a result of a transfer or conveyance required as a condition to a special use permit or other authorization to enter upon or use federally owned land, the water right was originally appropriated by a person other than the United States, and the water right is not a federal reserved water right, the water right is presumed to be held by the United States for speculative purposes. Such a water right is not automatically abandoned but is forfeited by the United States and reverts to the prior owner for continued use under its original priority.

Sponsors: Rep.Sonnenberg/Sen. Roberts

HB14-1030 CONCERNING THE ESTABLISHMENT OF INCENTIVES FOR THE

DEVELOPMENT OF HYDROELECTRIC ENERGY SYSTEMS. (formerly designated interim committee Bill A)

Water Resources Review Committee. **As introduced**: In order to promote the construction and operation of hydroelectric energy facilities in Colorado, the bill provides the following incentives:
* Section 1 of the bill requires the state electrical board to approve the installation of a motor as a generator for a hydroelectric energy facility if the installation would be approved but for the fact that the motor is not being used in a manner commensurate with its nameplate;
* Section 2 authorizes the department of natural resources to serve as the coordinating state agency for obtaining and compiling state agency comments about an application for a license or license exemption from the federal energy regulatory commission; and
* Section 3 incorporates community hydroelectric energy facilities into the community solar garden statute, so that a group of community members may jointly subscribe to and receive electricity from a small hydroelectric energy facility located in or near the community.

Sponsors: Reps. Coram and Mitch Bush/Sens. Schwartz and Roberts

HB14-1052 CONCERNING AN INCREASE IN THE ENFORCEMENT AUTHORITY OF GROUND WATER MANAGEMENT DISTRICTS (discussed at interim as Bill 7 but not selected as a committee bill)

As introduced: Ground water management districts are currently authorized to enforce the terms of permits issued for small-capacity wells. The bill authorizes a district to:
* Enforce permits for all wells located within the district;
* Enforce the district's rules with regard to those wells;
* Issue orders requiring compliance with the rules and permits; and
* Apply to a district court to collect civil fines against a well owner who does not comply with an order.

Sponsors: Rep. Fischer/Sen. Jones

HB14-1218 CONCERNING THE USE OF SURFACE WATER TO REPLACE OUT-OF-PRIORITY GROUNDWATER DEPLETIONS WITHOUT REQUIRING ADDITIONAL WATER COURT APPROVAL PURSUANT TO A STREAMLINED APPROACH ADOPTED BY THE STATE ENGINEER AS A PILOT PROJECT

As introduced: The bill allows the use of surface water to replace or augment out-of-priority groundwater depletions without the necessity of filing an application for a change of water right if both the surface water and the well have been decreed or permitted for use on the same parcel of land, the use of the surface water does not result in any enlargement in the use of water, and the use complies with a rule adopted by the state engineer. Section 1 of the bill alters the definition of a change of a water right, and section 2 amends the augmentation and replacement statute for tributary water. Section 3 authorizes the state engineer to adopt the rule as a pilot project and repeals the authority on September 1, 2020.

Sponsors: Rep. Fischer

HB14-1219 CONCERNING MAINTENANCE OBLIGATIONS FOR WATER CONVEYING STRUCTURES (Bill introduced Jan. 30 but not yet posted by legislative staff)

Sponsors: Rep. Rankin

SB14-017 CONCERNING A LIMITATION ON THE APPROVAL OF REAL ESTATE DEVELOPMENTS THAT USE WATER RIGHTS DECREED FOR AGRICULTURAL PURPOSES TO IRRIGATE LAWN GRASS

As introduced: The bill prohibits a local government from approving an application for a development permit unless the local government has adopted an enforceable resolution or ordinance that limits, as a prerequisite for approval of the development permit, the amount of irrigated grass on residential lots in the development to no more than 15% of the total aggregate area of all residential lots in the development. "Irrigated" means supplied with water for lawn grass and does not include the use of raw water for irrigation. The 15% limit applies only if any part of the water supply for the development is changed from agricultural irrigation purposes to municipal or domestic use on or after January 1, 2016.

Sponsors: Sen. Roberts/Rep. Vigil

SB14-023 CONCERNING AN AUTHORIZATION OF THE VOLUNTARY TRANSFER OF WATER EFFICIENCY SAVINGS TO THE COLORADO WATER CONSERVATION BOARD FOR INSTREAM USE PURPOSES IN WATER DIVISIONS THAT INCLUDE LANDS WEST OF THE CONTINENTAL DIVIDE

As introduced: Section 1 of the bill defines "water efficiency savings" as that portion of a water right used solely for agricultural irrigation or stock watering purposes in water division 4, 5, 6, or 7 that is nonconsumptive under existing practices and that results from efficiency measures, determined as the difference between:
* The lesser of the decreed diversion amount and the maximum amount that had been historically diverted using the existing facilities for a beneficial use under reasonably efficient practices to accomplish without waste the purpose for which the appropriation was lawfully made; and
* The diverted amount needed to meet the decreed beneficial use after increased efficiency in the means of diversion, conveyance, storage, application, or use. Section 2 allows water efficiency savings to be changed or loaned, pursuant to existing water court and water loan statutes, only to the Colorado water conservation board, only for instream use, and only if:
* The application was filed within 2 years after the diversions were decreased due to efficiency measures;
* The change or loan will not materially injure decreed water rights; and
* The change or loan will not adversely affect Colorado's interstate compact entitlements or obligations.
The change decree or loan approval must identify the amount of water efficiency savings and the stream reaches within which water efficiency savings, as changed or loaned, will be used. Water efficiency savings that have been changed or loaned are not subject to abandonment. The parties who enter into a change or loan of water efficiency savings may provide conditions by which the original decreed diversion rate may be preserved for a future use by the water right owner who implements the efficiency measures if use of the efficiency measures is discontinued.

Sponsors: Sen. Schwartz

SB14-025 CONCERNING GRANTS FOR DOMESTIC WASTEWATER TREATMENT WORKS FOR SMALL COMMUNITIES (formerly designated interim committee Bill C)

Water Resources Review Committee. **As introduced**: Sections 1 and 2 of the bill clarify that severance tax dollars credited to the small communities water and wastewater grant fund may be used for domestic

wastewater treatment works. Section 3 repeals a statute that separately governs the funding, through grant-making, of domestic wastewater treatment works for small municipalities and that substantially duplicates the provisions added and amended by sections 1 and 2. As written, municipalities with 5,000 or fewer in population are eligible for the grants which will be awarded according to criteria established by the Colorado Department of Public Health & Environment. *The bill received one amendment when the adjective "domestic wastewater" was deleted from a more generic reference to grants and projects.*

Sponsors: Sen. Hodge/Rep. Fischer

SB14-026 CONCERNING THE REMOVAL OF CERTAIN STATUTORY PRINTING REQUIREMENTS FOR INFORMATION PROVIDED BY THE DIVISION OF WATER RESOURCES (formerly designated interim committee bill D)

Water Resources Review Committee. **As introduced :** The state engineer and the division engineers throughout the state are required to make a number of reports, tabulations, and other written materials available to the public by printing them out and mailing them to interested parties. With electronic mail and the internet, these written materials can be disseminated without printing copies. The bill updates statutes to remove printing requirements for the following written materials:
* The state engineer's annual report to the general assembly, as reflected in section 1;
* Division engineers' tabulations of decreed and conditional water rights, as reflected in section 2; and
* Decisions concerning substitute water supply plans, as reflected in section 3 of the bill.

Sponsors: Sen. Hodge/Rep. Vigil

SB14-072 CONCERNING TREATMENT OF THE SEPTEMBER 2013 FLOODS AS REPLACING CERTAIN OUT-OF-PRIORITY GROUNDWATER DEPLETIONS IN WATER DIVISION 1

As introduced: Due to the September 2013 flooding, the bill specifies that the state engineer and water judges must treat all out-of-priority groundwater depletions occurring in water district 1 through 7 or 64 in water division 1 that accrued on or before September 12, 2013, as having been fully replaced.

Sponsors: Sen. Brophy/Rep. Fischer

SB14-089 CONCERNING A PROHIBITION FOR THE STATE TO ENTER INTO AN AGREEMENT FOR A PAYMENT IN LIEU OF TAXES

Capital Development Committee **As introduced:** The bill clarifies that the state is exempt from any requirement for a payment in lieu of property taxes for property that it owns or leases. The bill also specifies that neither the state nor any of its political subdivisions may agree to make any form of a payment in lieu of property taxes in connection with any property that it owns or leases.
(Background) This issue arose out of the proposed acquisition of a building for the Dept. of Agriculture.

Sponsors: Sen. Schwartz/Rep. Fischer

SB14-097 CONCERNING THE IMMUNITY OF PUBLIC AGENCIES AGAINST LIABILITY ARISING FROM THE WILDFIRE MITIGATION ACTIVITIES OF INSURANCE COMPANIES

Wildfire Matters Review Committee. **As introduced**: The bill extends existing protections held by public agencies concerning immunity from civil liability to immunize such agencies from the acts of an insurer or insurance company, corporation, association, or partnership (insurer), including any employees, contractors, or agents (agents), engaged in activities intended to protect the insurable private property interests of the insurer's policyholders from damage. The bill further specifies that neither an insurer nor any of its agents engaged in activities intended to protect the insurable private property interests of the insurer's policyholders from damage constitute a private organization entitled to immunity from liability under the statute nor is any agent of the insurer a volunteer for purposes of the "Colorado Governmental Immunity Act", regardless of whether such activities may be subject to the direction of a local emergency planning committee or a state or local fire or law enforcement agency. The bill authorizes an insurer to provide services protecting the property of its policyholders in the course of an emergency. The division of insurance may promulgate rules to implement this provision

Sponsors: Sen. Tochtrop

SB14-103 CONCERNING THE PHASE OUT OF THE SALE OF CERTAIN LOW EFFICIENCY PLUMBING FIXTURES

As introduced: The bill defines a "watersense-listed plumbing fixture" as one that has been:
* Tested by an accredited third-party certifying body or laboratory in accordance with the federal environmental protection agency's WaterSense program;
* Certified by such body or laboratory as meeting the performance and efficiency requirements of the program; and
* Authorized by the program to use its label. Current law requires water-efficient indoor plumbing fixtures in only three contexts:
* Builders of new single-family detached residences must offer the buyers toilets, faucets, and showerheads that meet the current standards of the WaterSense program;
* Tank-type water closets and flushometer toilets in new state buildings must meet certain standards that are either less stringent than or as stringent as the current WaterSense standards; and
* New construction and renovation of residential structures and office, commercial, or industrial buildings must meet standards that are less stringent than the current WaterSense standards. Section 1 of the bill prohibits the sale of lavatory faucets, shower heads, flushing urinals, tank-type toilets, and tank-type water closets on and after September 1, 2016, unless they are a watersense-listed plumbing fixture. Sections 2 through 5 amend or repeal conflicting portions of current law.

Sponsors: Sen. Guzman/Rep. Fischer

SB14-105 CONCERNING THE ELIMINATION OF THE REQUIREMENT THAT A PORTION OF THE FEES COLLECTED FOR THE WATER RESOURCES CASH FUND BE TRANSFERRED TO THE STATE GENERAL FUND

JBC Bill. As introduced: The division of water resources collects and administers multiple fees that are deposited into the water resources cash fund. For some of those fees, a portion is currently required to be credited to the general fund. Commencing July 1, 2014, the bill repeals this requirement so that all of the fee revenue goes to the water resources cash fund

Sponsors: Sen. Lambert/Reps. Duran and Gerou

SB14-115 CONCERNING PROCEDURAL REQUIREMENTS APPLICABLE TO STATE WATER PLANS

As introduced: The bill requires the Colorado water conservation board to hold a hearing on a draft state water plan within each basin roundtable, update the plan based on public comments, and present the draft plan to the water resources review committee. The committee must vote on whether to introduce legislation that would approve the plan. The plan does not embody state water policy unless the general assembly, acting by bill, approves the plan.

Sponsors: Sen. Roberts/Rep. Fischer

SB14-134 CONCERNING THE REPEAL OF STATUTORY FEE SCHEDULES APPLICABLE TO WATER QUALITY

JBC bill. As introduced: Section 1 of the bill:

- Repeals the water quality control fund and the statutory schedule of fees applicable to numerous categories and subcategories of water quality discharge permits;
- Creates the public and private utilities fund, construction fund, commerce and industry fund, pesticides fund, and water quality certifications fund;
- Identifies the particular entities that must pay fees into the new funds and the services for which the fees must be set to cover; and
- Gives the water quality control commission rule-making authority to set the fees for the various funds and categories of water quality discharge permits.

The animal feeding operations fund is reenacted, as are the procedural requirements applicable to the review, issuance, and appeal of water pollutant discharge permits.
Sections 2 through 4 make conforming amendments. Section 5 repeals the drinking water cash fund's statutory schedule of fees applicable to numerous categories and subcategories of public water systems and gives the water quality control commission rule-making authority to set the fees.

Sponsors: Sen. Hodge/Reps. May and Gerou

SJR14-004 CONCERNING APPROVAL OF WATER PROJECT REVOLVING FUND ELIGIBILITY LISTS ADMINISTERED BY THE COLORADO WATER RESOURCES AND POWER DEVELOPMENT AUTHORITY

As introduced: Contains the annual listing of projects eligible to receive grants for drinking water and water pollution control projects from the fund administered by the Water Resources and Power Development Authority.

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 12
MEETING DATE: 2/19/2014
SUBMITTED BY: Steve Adams, Director MS for SA

TITLE: Commission/Council Report

SUMMARY:
Discuss events that the Loveland Utility Commission Board members attended and any City Council items related to the Water and Power Department from the past month.

- City Council Advance – January 25, 2014
- Colorado Water Congress – January 29-31, 2014

RECOMMENDATION:
Commission/Council report only.

REVIEWED BY DIRECTOR: MS for SA

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 13
MEETING DATE: 2/19/2014
SUBMITTED BY: Steve Adams, Director MS for SA

TITLE: Director's Report

SUMMARY:

- **March Customer Relations Calendar –** Please see attachment A for the March 2014 Customer Relations schedule of events. – Gretchen Stanford

- **High Plains Landscape Workshop -** LW&P is sponsoring the High Plains Landscape Workshop on February 22, 2014 at the Lincoln Center. This is a one-day workshop for homeowners and professionals designed to promote high quality, sustainable landscapes that reflect a sense of place in Colorado's northern Front Range. Please see attachment B for additional information or if you would like to register for this event. – Lindsey Bashline

- **Colorado Water Plan Update** – The concept for creating a State Water Plan uses work done by the nine basin roundtables across the state and is being coordinated by the Colorado Water Conservation Board. Please see the attachments C, D, E and F for more information and details. - Larry Howard

- **C-BT Conversion -** The City of Loveland converted 50 acre-foot units of C-BT Project water in the form of temporary use permits (TUP) at the February 18, 2014 City Council meeting. TUPs give the City the temporary right to use the C-BT water associated with these acre-foot units during the year the units are acquired, prior to obtaining a Section 131 contract which provides for their use in all subsequent years. Northern Water's policy requires municipal and industrial allottees to convert the TUPs to Section 131 contracts in the year following acquisition. ("Section 131" refers to that section in the Water Conservancy Act of Colorado, Title 31, Article 43, Colorado Revised Statutes). Failure to convert the TUPs would result in Northern Water's refusal to deliver the water. - Scott Dickmeyer

- **City Council Advance:** Please see attachment G for an overview of items discussed at the January 25, 2014 City Council Advance. – Steve Adams

- **7th Annual Boards & Commissions Summit -** Dave Schneider and Gene Packer will be the LUC board representatives and Steve Adams as the staff liaison that will attend the 2014 Boards and Commission Summit.
  Date: Thursday, February 27, 2014
  Time: 5:00 p.m. to 9:00 p.m.
  Place: Best Western Plus Crossroads Inn & Conference Center
  5542 E US Highway 34
  Loveland, CO 80537

- **Colorado Conservation Exchange** – Efforts to explore the formation of a Conservation Exchange have been underway since 2008 by the Colorado Conservation Exchange. This group of interested parties is exploring the feasibility to establish a 'marketplace' through which funding and staffing can be contributed to address two water quality categories: 1) forest health; 2) water quality in local rivers. This group has retained the consulting services of two firms: World Resources Institute and Environmental Incentives to broadly evaluate whether this exchange concept is worth further investigation. These firms have developed financial modeling that illustrates their findings for returns on investment in green infrastructure that are more attractive than traditional "hard" utility improvements (pipes, pumps, and treatment plants). The findings of these two firms indicate that there is sufficient advantage to this exchange concept over traditional approaches, that additional investigation is justifiable. While the water quality approach doesn't appear to be a viable option for the City of Loveland at this time, Utilities staff will continue to monitor and contribute expertise to this effort when appropriate. The forest health aspect of this program may be a viable option, additional coordination is required to ensure other efforts in the river corridors aren't duplicated – Chris Matkins

- **Northern Colorado Economic Development Center (NCEDC) Annual Meeting** was held on February 5, 2014 at the Embassy Suites. The focus of the NCEDC is to recruit new employers and retain and strengthen existing employers who create primary jobs, invest capital, and add vitality to the economy. The annual meeting reviewed the state of the Larimer County economy, reviewed economic activity during 2013, and had Charles Hayes, President & CEO of the Research Triangle Regional Partnership speak on the importance of regional collaboration in economic development. - Gretchen Stanford

- **Passport to Power Open House** – Loveland Water and Power will be hosting Passport to Power, an Open House event on February 26, 2013 from 5:00 p.m. to 7:00 p.m. at the Service Center. Community members are invited to learn about everything power including electrical equipment and distribution to sources of electricity. Participants can trade in full passports for gifts and chances to win door prizes. - Lindsey Bashline

RECOMMENDATION:
Director's report only.

REVIEWED BY DIRECTOR: MS for SA

March

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17 ST PATRICK'S DAY	18	19 LUC	20	21	22
	FIX A LEAK WEEK					
23	24	25	26	27	28	29
30	31					

2014

Attachment A

11th Annual High Plains Landscape Workshop

This one-day workshop for homeowners and professionals is designed to promote attractive, sustainable landscapes that reflect a sense of place in Colorado's northern Front Range. In these classes, you will learn beyond-the-basics gardening information for designing, installing, and maintaining a water-wise landscape.

Don't miss our silent auction and book sale too!

Proceeds Support Gardens on Spring Creek

The Gardens on Spring Creek is the community botanic garden of Fort Collins. The project is a unique public-private partnership between the City of Fort Collins and the Friends of the Gardens on Spring Creek, a 501(c)3 organization.

The Gardens currently includes a showpiece Plant Select® Demonstration Garden, a Children's Garden, the Garden of Eatin', a Rock Garden, Sustainable Backyard, and the Xeric Parkway Strip.

- Opened in 2004
- 50,000+ visitors annually
- Education for 4,000+ children and 1,000 adults annually
- Thousands of pounds of produce grown and donated to local food bank
- 200+ active volunteers
- Hub for community events

Special Thanks to our Sponsors

Presenting Sponsor

Fort Collins NURSERY

Gold Sponsors

City of Fort Collins Utilities

Loveland Water and Power

Supporting Sponsors

Harlequin's Gardens

Garden Art Landscaping

Zak George Landscaping

Throgmorton Plant Management

Earthborn Landscape Design

Non-Profit Sponsors

Loveland Youth Gardeners
Plant Select®
Fort Collins Audubon Society

Special Thanks

to our Planning Committee

Gardens on Spring Creek
Fort Collins Utilities
CSU Extension in Larimer County

High Plains Landscape Workshop
c/o Gardens on Spring Creek
2145 Centre Ave.
Fort Collins, CO 80526

the GARDENS on Spring Creek

High Plains Landscape Workshop

City of Fort Collins

2014 High Plains Landscape Workshop

Saturday, February 22
8:30 a.m. – 3:30 p.m.
The Lincoln Center
417 West Magnolia
Fort Collins, CO 80521

Presenting Sponsor

the GARDENS on Spring Creek

Fort Collins NURSERY

Attachment B

Workshop Schedule

8:30–9:15 a.m.	Registration & Exhibits
9:15–10:30 a.m.	Western-Inspired Gardens with Plant Select
10:30–10:45 a.m.	Break
10:45 a.m.–Noon	Organic Vegetable Gardening on Colorado's High Plains
Noon–12:45 p.m.	Exhibits & Lunch
1–2 p.m.	Life on the Edge: Tough Plants for Tough Places
2–2:15 p.m.	Break
2:15–3:15 p.m.	Chic Plants for Modern Gardens: A Commentary on New Plants
3:15–3:30	Auction & Book Sale closes

New 2014 Location:
The Lincoln Center, 417 W. Magnolia

Session Schedule

9:15–10:30 a.m.

Western-Inspired Gardens with Plant Select®

Pat Hayward, Plant Select, Executive Director

Learn how to make stunning and unique gardens using many of the plants introduced through Plant Select. Using examples from gardens as well as professionally created designs, you'll be inspired to try out the many new ideas presented. This session will also include a preview of the 2014 plant introductions, including the new Plant Select Petites. Plant Select is a plant introduction program from Denver Botanic Gardens and Colorado State University focusing on unique, adaptable and resilient plants for western gardens.

10:45 a.m.–Noon

Organic Vegetable Gardening on Colorado's High Plains

Jane Shellenberger, Colorado Gardener, Publisher/Editor

Discover techniques for successfully growing tasty vegetable varieties in our challenging, semi-arid environment, while understanding your garden as a part of a larger whole, including as a habitat for pollinators and other critters. Learn how to create living, breathing soil that provides healthy growing conditions for a wide variety of vegetables.

1–2 p.m.

Life on the Edge: Tough Plants for Tough Places

Kelly Norris, Greater Des Moines Botanical Garden, Horticulture Manager

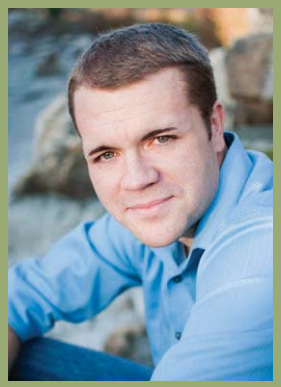
Native vegetation grows and thrives in harsh, sometimes threatened, and highly variable environments. Kelly will share a palette of garden-worthy plants from harsh environments. Learn about how plants respond to their environment and how you can translate that into success in your own garden.

2:15–3:15 p.m.

Chic Plants for Modern Gardens: A Commentary on New Plants

Kelly Norris, Greater Des Moines Botanical Garden, Horticulture Manager

Learn about the current state of ornamental horticulture and new perennial varieties. Looking for audience participation, Kelly will lead a rousing discussion on what makes a great garden plant and how some new plants just aren't all they're cracked up to be.



Kelly Norris
Greater Des Moines Botanical Garden
Des Moines, Iowa

Kelly Norris holds a bachelor's and master's degree in horticulture from Iowa State University. He's the first horticulture manager at the newly opened Greater Des Moines Botanical Garden. For over ten years, Kelly operated Rainbow Iris Farm. He's the author of *A Guide to Bearded Irises: Cultivating the Rainbow for Beginners and Enthusiasts* and is working on a new book, *Dig This: Stylish Gardening with Kickass Plants*. Kelly is the youngest person to receive the Iowa State Horticultural Society's Presidential Citation, Award of Merit and Honor Award. He was also named a "Rising Star" of horticulture by Organic Gardening.

For more information, call 970-416-2486 or visit *fcgov.com/highplains*

Registration Form

Name

Address

City/State/Zip

Phone

E-mail

Cost (includes boxed lunch by The Rainbow)
Garden Members: $44
Non-Members: $49 (postmarked by Feb. 1)

Late Registration: $59 (postmarked after Feb. 1)

Cancellations received by Wed., Feb. 13 will receive a full refund. No refunds if received after Feb. 13.

If you register by phone or mail-in, a receipt will be sent to confirm your registration. Online registrations, please keep your purchase confirmation as receipt.

Online Registration: *fcgov.com/highplains*
Call-in Registration: 970-416-2486

Mail-in Registration:
Check: payable to: GOSC (Gardens on Spring Creek)
Credit Card ☐ Visa ☐ MasterCard ☐ Discover

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Card Number

_ _ _ Security code

_ _ / _ _ Expiration date

Signature

Mail registration and payment to:
High Plains Landscape Workshop
c/o Gardens on Spring Creek
2145 Centre Ave.
Fort Collins, CO 80526

High Plains Landscape Workshop

Attachment C

Loveland Utilities Commission
February 18, 2014 Director's Report Item
Colorado Water Plan Update

Nine basin roundtables were created by the Colorado legislature via HB1177 (aka the "Water for the 21st Century" bill) in 2005, with instruction providing for diverse representation from all interested areas related to the use and enjoyment of water for both consumptive and nonconsumptive purposes—agricultural, municipal, environmental, industrial, county, and recreational. On August 20, 2013, an informative interview was given to Brown & Caldwell by Mr. John Stulp, special policy advisor for water to Colorado Governor John Hickenlooper. A copy of the interview is attached for your information. It provides a short but comprehensive look at water related activities which have occurred in the state and are anticipated over the next few years and into the future. Much has happened in the intervening months since that interview, all geared toward creating a statewide Colorado Water Plan, something the State has never had.

On May 15, 2013, Governor Hickenlooper issued Executive Order D2013-005, directing the Colorado Water Conservation Board (CWCB) to begin work on a draft Colorado Water Plan that will support agriculture in rural Colorado and align state policy to the state's water values. "Colorado deserves a plan for its water future use that aligns the state's many and varied water efforts and streamlines the regulatory processes . . .. We look forward to continuing to tap Colorado's collaborative and innovative spirit to address our water challenges." The Order directs the CWCB to utilize the work of the state's grassroots water process, the Basin Roundtables and Interbasin Compact Committee (IBCC), in developing a draft report by December, 2014. A final report should be completed one year later.

More than eight years of work by nine basin roundtables statewide and the statewide Interbasin Compact Committee, and concurrent work by the Colorado Water Conservation Board, as well as the CWCB's additional work on the 2010 State Water Supply Initiative (SWSI) report, have produced projections of future demands for water and future supplies which reveal an estimated statewide gap of 500,000 acre-feet of water by 2050, with half of that in the South Platte basin. If this demand is met by buying water rights and drying up agricultural lands, often referred to as, "buy and dry," an estimated 500,000 to 700,000 currently irrigated acres will be lost to production. Four additional approaches besides permanent agricultural dry-up are identified as reasonable alternatives to consider for meeting future demands. The four options are often referred to collectively as parts of a "four-legged stool." These are i) conservation; ii) development of identified projects and processes (IPP's) such as the Windy Gap Firming Project and the NISP project; iii) development of new sources of water such as on the Yampa River or Flaming Gorge; or iv) alternative agricultural transfers which meet municipal needs without permanently eliminating agricultural production. These four alternatives are intended to limit the process of drying up farmland because of the benefits, economic, environmental, and aesthetic that agriculture provides in Colorado.

Each of the basins is currently developing a Basin Implementation Plan (BIP), identifying the alternatives best suited to the characteristics, opportunities and needs of that basin. Each BIP will include alternatives for both consumptive and nonconsumptive water needs. The South Platte and Metro basins are working collaborative on a joint BIP because they share the same hydrologic basin. These BIP's are due for completion and submittal to the CWCB staff in June, 2014. The CWCB staff will then use the data, information and recommendations these BIPs contain to form a comprehensive statewide Colorado Water Plan, using concepts originally applied during interstate negotiations leading to

Compacts on all of the rivers leaving Colorado. This Plan is due in draft form on the Governor's desk by December, 2014, with final draft due a year later.

Attachments:

- BC Waternews "10 Minutes with Mr. John Stulp", special policy advisor for water to Colorado Governor John Hickenlooper
- Jan 17, 2014 Statewide Basin Roundtable Outreach Efforts
- Jan 28, 2014 Colorado Water Plan Update

Attachment D

A SERVICE OF BROWN AN

BC WATERNEWS

10 MINUTES V

John Stulp, special policy adviser for water to Colorado Gov. John Hickenlooper, recently talked to Brown and Caldwell Senior Vice President Mary Gearhart about the future of water in Colorado and some of the issues that the state would be dealing with in the near future.

AUG. 20, 2013

Where are we now in the water plan process?

The governor recently signed Executive Order D2013-005, "Directing the Colorado Water Conservation Board to Commence Work on the Colorado Water Plan." The draft plan is due in December 2014, and the final is due in December 2015. While many people in Colorado and the water business know about this directive, and understand what to expect over the next two years, many others have yet to hear about the Colorado Water Plan process or know how to get more information about it.

Would you explain the process and the role of the Colorado Water Conservation Board in the state's water planning?

The CWCB was created in 1937 "for the purpose of aiding in the protection and development of the waters of the state, for the benefit of the present and future

Name: John Stulp

Title: Special Policy Advisor to the Governor for Water, Interbasin Compact Committee Director

Background: Stulp is a farmer and rancher from Prowers County and served the State of Colorado as Commissioner of Agriculture from 2007-2011. For 13 years he served as a Prowers County Commissioner and also served on numerous other state boards and commissions; highlights included the State Board of Agriculture, State Wildlife Commission, the Connect Colorado Technology Committee, the State Land Board, and the Colorado Ag Development Authority & Value Added Board.

He has been a leading proponent of building wind farms in rural Colorado as a way to develop new economic opportunities and jobs. Stulp's family farming operation is home to the Lamar Light and Power Wind Farm. He holds many memberships in the

inhabitants of the state." Under House Bill 05-1177, the CWCB instituted the Interbasin Compact Committee (IBCC) and the Basin Roundtables to develop a grassroots level effort of data collection, decision support tools, and processes for collaborative discussions and decision-making.

As the director of the IBCC for the past 2½ years, I am responsible for helping to work toward consensus to implement and advocate for a statewide water policy. Through this process, the state has ensured that water users and providers have a seat at the table in all discussions about future water use, protection and planning. But because the IBCC/Roundtable process has been in place for eight years, the governor has determined that a Colorado Water Plan is an important next step to focusing these conversations in order to secure a sustainable water supply.

What are some of the major issues at hand?

Some of the big issues are funding for implementation, permitting and streamlining the process if and where possible. Of course we have to continue to comply with the terms of interstate river compacts such as the Colorado River Compact.

agriculture field such as Colorado Wheat Growers, Colorado Cattlemen, Rocky Mountain Farmers Union, and Colorado Veterinary Medical Association.

Stulp graduated from Yuma High School and went on to study at Colorado State University where he earned both a bachelor's degree in veterinary science and a Doctor of Veterinary Medicine.

Recent Profiles

Tim Welch
Director of Utilities, City of Sunrise, Fla.

Adel Hagekhalil
Assistant Director, Los Angeles Bureau of Sanitation

Harlan Kelly Jr.
General Manager, San Francisco Public Utilities Commission

Jerry Brown
General Manager, Contra Costa Water District

Stan Dean
District Engineer, Sacramento Regional County Sanitation District and Sacramento Area Sewer District

John Rossi
General Manager, Western Municipal Water District

Marsi Steirer
Deputy Director, City of San Diego Public Utilities Department

John Cherry
Founding Director, University Consortium for Field-Focused Groundwater Contamination Research

Other issues the Colorado Water Plan will hopefully address include:

• Building projects that benefit multiple uses of tourism, agriculture, municipal, environmental and industrial.

• Looking at the interface between water quality and water quantity, which has not been the practice heretofore.

• Completing long-awaited Basin implementation plans and studies to help prioritize funding.

• Aligning future projects with Colorado values consistent with our prior appropriation system of water administration.

Each of these is a monumental effort in itself, but the CWCB and the Basin Roundtables will be tackling all of these issues during the preparation of the Colorado Water Plan and with hundreds of stakeholders.

That is quite a list. Can it be done?
Yes, this is possibly one of the biggest challenges that Colorado has faced in decades. Having worked through various portfolios and scenarios, the Basin Roundtables will prepare Basin Implementation Plans. The "No/Low Regrets" strategy means that we look at a

10 Minutes Archive

large number of possible options and alternatives. The strategies that will help meet any future scenario include increasing conservation, minimizing agricultural dry-up, pursuing alternative agriculture transfers, minimizing impacts to recreation and the environment, completing a high percentage of currently identified projects and enhancing storage.

What's next?

In 2015, the draft Colorado Water Plan will go to the citizens of Colorado through a series of public meetings, town hall events and invitational forums to gain a broad base of support for what promises to be a significant turning point in Colorado's water future.

Attachment E

COLORADO'S WATER PLAN

coloradowaterplan.com

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Direct 303-866-3441

Statewide Basin Roundtable Outreach Efforts

Status Update January 17, 2014

This status update was prepared by the Colorado Water Conservation Board in order to update stakeholders statewide on recent developments related to Colorado's Water Plan. Please check the Colorado's Water Plan website (www.coloradowaterplan.com) often for additional updates and email cowaterplan@state.co.us with any questions.

Summary

The Colorado Water Conservation Board (CWCB) maintains an Outreach and Communications Plan designed to provide a strategy for communications and outreach activities related to Colorado's Water Plan. The Outreach and Communications Plan heavily relies upon the work of the Basin Roundtables. In addition to regular attendance and participation at Basin Roundtable (BRT) meetings, the CWCB is working together with the BRT members to develop communications materials and messaging that they can disseminate and use in their conversations about the Basin Implementation Plans (BIPs) and Colorado's Water Plan in their communities.

Much of this work is happening through the existing Public Education, Participation, and Outreach (PEPO) Workgroup of the IBCC. PEPO Education Liaisons in each basin are working with BRT members, their BIP consultant teams, local stakeholders, the CWCB and Colorado Foundation for Water Education (CFWE) to share information regarding the Basin Implementation Plan development process, how it relates to Colorado's Water Plan, and how best to involve the public in these efforts.

New this month, PEPO has implemented an easy and transparent way for the basins to share information on BRT outreach activities. As the BRTs plan and implement education and outreach activities in their basins, the PEPO Education Liaisons will provide summary updates of activities on a regular basis. The first of these updates is included below. This and future updates will be shared at CWCB Board meetings, posted online at www.coloradowaterplan.com, sent out to the PEPO Workgroup via email, and shared at other events such as the Statewide Basin Roundtable Summit on March 6, 2014.

Arkansas River Basin – January 2014 Outreach Summary

- Arkansas River Basin Outreach Team
    - Perry Cabot, PEPO Education Liaison (through January, 2014)
    - Terry Book, PEPO Education Liaison (beginning January, 2014)
    - BIP Consultant: CDM Smith and WestWater Research
- The Arkansas Basin Roundtable (Arkansas BRT) reports several ongoing outreach tactics, along with two (2) major events held in 2013 for the purpose of educating the water-interested public. Additionally, policy-makers were a specific target audience that was focused upon in 2013.
    - Due to the interest in water-related topics by local newspapers, in particular The Pueblo Chieftain, the Arkansas BRT is fortunate to receive coverage by Chris Woodka. Mr. Woodka consistently attends roundtable meetings and reports on major decisions reached at the monthly meetings.
    - From April 23-25, 2013 several members of the Arkansas BRT membership attended the 19th annual Arkansas River Basin Water Forum (ARBWF) (www.arbwf.org), which was held in Walsenburg, CO and attended by approximately 120 people. The inclusion of Walsenburg as a new host for the ARBWF was noteworthy, in that representatives from Huerfano County developed stronger relationships with the broader Arkansas BRT membership. Each year, the ARBWF counts on the Colorado Water Conservation Board for its longstanding support of this event.
    - On October 7, 2013, the Arkansas BRT co-hosted a major event, "Valuing Colorado's Agriculture: A Workshop for Policy-Makers," along with the Colorado Ag Water Alliance. The Colorado Water Conservation Board was among the sponsors of this event, which hosted experts from the Western US to bring their expertise on topic of "valuing" water as it is used in irrigated agriculture, and the attendant benefits of economies based on agricultural water. The event was attended by over 150 people from regions across the state. The morning session of presentations is available at the Colorado Ag Water Alliance website (www.coagwater.org).
- Future Activities Planned:
    - Among the Arkansas Basin Goals and Measurable Outcomes is the goal of developing a clear vision of the Arkansas basin's water needs including the value of agriculture and recreation and take a leadership role to communicate those visions throughout the basin.
    - Additionally, the Arkansas BRT has three outreach sessions (via BIP consultant) in the planning stages, 1) Arkansas Basin Water Forum - April 2014, 2) Colorado Springs Community Outreach - June 2014, and 3) Pueblo Community Outreach - August 2014. The Roundtable has also engaged a consultant (Pikes Peak Water Authority) to work on water efficiency for the Basin Implementation Plan.

Colorado River Basin – January 2014 Outreach Summary

- Colorado River Basin Outreach Team
    - Caroline Bradford, PEPO Education Liaison
    - BIP Consultant: SGM, Inc.
    - Additional Consultant for Outreach: Hannah Holm, Colorado Mesa University

- The Colorado Basin Roundtable (Colorado BRT) has begun developing its Basin Implementation Plan, and this has become the focus of education efforts. The priories are to make citizens aware of the planning process and get input from them. Key activities have included the following, which have all been carried out with input from Basin Roundtable members:
    - A new, very short base PowerPoint has been developed by the Water Center at CMU for Basin Roundtable members to use in community presentations. This is available here: http://www.coloradomesa.edu/watercenter/documents/CBRT-waterplan-10-22-13.pptx
    - Colorado BRT members helped develop an extensive spreadsheet of local government and civic groups that are being contacted for help in spreading the word via presentations and/ or newsletters to their members.
    - Presentations using the PowerPoint have been given to the Middle Colorado Watershed Group in Rifle; Summit County Mayors, Managers & Commissioners; Grand County Mayors, Managers & Commissioners; and Grand Junction Daughters of the American Revolution. Presentations are also scheduled for the Water Center at CMU's annual water course in February and an Eagle County Watershed Council "Waterwise Wednesday" in February.
    - A new Colorado BIP website has been developed: http://www.sgm-inc.com/coloradobip as well as FaceBook and twitter accounts (see links on website).
    - Several of the weekly articles distributed by the Water Center at CMU have discussed the plan, and a unified series of articles will be marketed to news outlets across the basin within the next few weeks. News articles already published are archived here: http://www.coloradomesa.edu/watercenter/RoundtableEducationProject.html
    - The Basin Roundtable BIP team has developed, in addition to an overall outreach plan, a draft media plan that includes both the articles and ads to draw attention to the website and survey.

Gunnison River Basin – January 2014 Outreach Summary

- Gunnison River Basin Outreach Team
    - George Sibley, PEPO Education Liaison
    - BIP Consultant: Wilson Water Group
    - Additional Consultant for Outreach: Hannah Holm, Colorado Mesa University
- The Gunnison Basin Roundtable (Gunnison BRT) PEPO Liaison is working on the following:
- The Gunnison BRT PEPO Liaison will have the 2014 Education Action Plan completed in time to send to the Roundtable members before the February 3 meeting, so it may be considered and possibly adopted.
- The Gunnison BRT PEPO Liaison is communicating with Greg Johnson of the Wilson Water Group, consultant for the Gunnison BRT Basin Implementation Plan, on meetings, focus groups or other communications needed to initiate with stakeholder groups or other entities in the Gunnison Basin.
- The Gunnison BRT PEPO Liaison is working with Hannah Holm of the Colorado Mesa University Water Center on a general plan of disseminating BIP information and other water-related information or positions of general interest through regional media, and developing a website for responses from readers and inviting participation in an ongoing online survey.

- The Gunnison BRT PEPO Liaison is working with Jeff Sellen and other faculty in the Environmental Studies, Outdoor Recreation, and other water-relevant programs at Western State Colorado University, on ways to engage (not just "educate" but engage) young people in a great water awareness and participation in water stewardship activities, including:
    - Trying to set up high school and university assembly programs with the "Protect Our Winters" winter-sport athletes from the Upper Colorado headwaters counties, with the intent of establishing a similar program for the Gunnison Basin with Western's winter-sports teams (many of whom are enrolled in the afore-mentioned water-relevant university programs).
    - Developing two types of paid student internships (in collaboration with the Upper Gunnison River District): one, for a Western student with good communication skills, to develop a website, materials for local media and social media that will "speak" to the younger mind and point toward the ambiguous future; and the second, a "community organizer" internship for a student with good people skills and organizing ability, to put together work groups from the schools and community for labor-intensive riparian and wet-meadow restoration work.
- The Gunnison BRT PEPO Liaison is working with the Gunnison Arts Center on a project to attempt to stir up the "passion" of the general public for their water resource and the rivers from which the water comes – a "right-brain" stimulus to see if it will result in more willingness to participate in the "left-brain" analysis and evaluation necessary to develop and execute a viable water plan for the future. Activities here include:
    - Publication this summer of a "Gunnison Valley Journal," a compilation of short stories and essays, poetry, photography and drawings about our rivers and streams and our uses of their water;
    - Creation by high school students of water-related art and sculpture projects for display around the valley communities.
    - Invitation to visual arts for a juried art show this summer, with cash awards, in conjunction with the Colorado Water Workshop and the Gunnison River Festival.
    - Presentation of a series of water-related films this winter and spring.
    - Composition of short water-related songs by local musicians, to be played as PSAs by local radio stations.

North Platte River Basin – January 2014 Outreach Summary

- North Platte River Basin Outreach Team
    - Debbie Alpe, PEPO Education Liaison
    - BIP Consultant: Wilson Water Group
- The North Platte Basin Roundtable (North Platte BRT) has received a WSRA Grant to work with Wilson Water Group to complete the North Platte Basin Implementation Plan.
- The North Platte BRT met September 24, 2013 with Wilson Water Group consultant Greg Johnson to discuss BIP scope of work, timeline and for an initial discussion of goals and measurable outcomes.
- The November 12, 2013 North Platte BRT meeting included a work session with Greg Johnson to conduct a more in depth discussion identifying the BIP Goals and Measurable Objectives and Outcomes.
- During the most recent December 17, 2013 North Platte BRT meeting, consultant Greg Johnson facilitated a work session addressing one of our BIP Goals; Maintain and maximize the

consumptive use of water in the depletion allowance of the Equitable Apportionment Decree and the Three State Agreement Depletion Plan. The focus of this discussion was the North Platte Decision Support System, Consumptive Use and Agricultural Shortages.

- PEPO Education Liaison, Deb Alpe with CSU Extension, informed the North Platte BRT on PEPO's request to update our Education Action Plan. The Education Committee will convene to develop a proposed updated EAP to present to the Roundtable as soon as possible.
- Informative Brochures on the Colorado Water Plan, Frequently Asked Questions about Colorado's Water Plan and the Basin Implementation Plans have been distributed to all North Platte Basin Roundtable members, in the community, and during the December 14, 2013 North Park Stockgrowers Association meeting attended by approximately 40 people.

Rio Grande River Basin – January 2014 Outreach Summary

- Rio Grande River Basin Outreach Team
    - Judy Lopez, PEPO Education Liaison
    - BIP Consultant: DiNatale Water Consultants
- The Rio Grande Basin Roundtable (Rio Grande BRT) is "full bore" in the Basin Plan process. The Rio Grande BRT hired DiNatale Water Consultants to write its Basin Implementation Plan and as a result set up subcommittees that will address various aspects of the plan and serve as advisors to the final plan. These committees are: water management. agriculture, M&I, environmental, recreational, institutional, non-consumptive, and education and outreach.
- The Rio Grande BRT set up a comprehensive communication plan that is designed to be informative and provide a platform for input. The communication plan includes a website (http://riograndewaterplan.webs.com) and other social media, Monthly Radio Spot, Bi-weekly Newspaper article series, Press releases, Pamphlets, PowerPoint for "speakers bureau" roadshow – including information relevant to specific geographical interests such as: county commissioners, town boards, ditch companies, and civic groups.
- The Rio Grande BRT is also preparing a newsletter that will be sent to a list serve of constituents and a newsletter link will be placed on the website.
- To tie this all together Rio Grande BRT has also developed a logo that will help brand the information.

South Platte and Metro River Basins (combined outreach effort) – January 2014 Outreach Summary

- South Platte and Metro Basins Outreach Team
    - Joel Shneekloth, South Platte PEPO Education Liaison
    - Mark Shively, Metro PEPO Education Liaison
    - BIP Consultants: HDR, Inc. (consumptive), West Sage Water Consultants and The PR Company (nonconsumptive)
- The South Platte and Metro Roundtables have partnered with their BIP consultant teams for a combined outreach effort. A draft Communications Plan was created and presented to both basin roundtables for review and comment.
- The Communications Plan is a collaborative effort between HDR Inc. and West Sage Water as consultants, respectively, to the consumptive and non-consumptive portions of the Metro and South Platte BIP process. The goal is to communicate with internal and external stakeholders

and the general public, with unified messaging, information, and opportunities for input regarding the BIP process. Below is a summary of outreach efforts planned to date.

- Roundtable Collaboration:
  - Full and consistent participation of the Roundtable membership will be crucial to meeting the schedule of the BIP as well as to identify solutions for the South Platte Basin stakeholders.
  - Collaboration Tools: A very specific set of communication and collaboration tools will be used for the BRT members throughout the process. HDR is responsible for communications regarding the consumptive portion of the BIP process. West Sage Water and The PR Company are responsible for communications regarding the non-consumptive portion of the BIP process. Where possible, communication efforts will be combined to provide the most comprehensive information possible to the BRT members. However, on other occasions (such as conference calls and emails) each team will interact separately with the BRTs. The proposed collaboration tools are: Survery Monkey, ArcGIS, SharePoint, Conference Calls, and Roundtable Meetings.
- Stakeholder Groups
  - The Basin Implementation Plan may affect everyone living, working and playing in and adjacent to the Basin. The following stakeholder groups have been identified to aide in developing appropriate outreach and communication: Agriculture, Municipal/Industrial, Business, Government/Elected Officials, NGO, Public, Environment and Recreation. A contact and comment management database will be established to track outreach and participation among these groups.
- Tool Application Summary
  - The following matrix of communication and engagement tools, definitions, application to stakeholder groups, and general timeline will be used: stakeholder meetings, existing web pages, email, promotion kit, monthly briefing documents, and online open house.

Southwest Basin – January 2014 Outreach Summary

- Southwest Basin Outreach Team
  - Denise Rue-Pastin, PEPO Education Liaison
  - BIP Consultant: Harris Water Engineering
- Work on Outreach Plans with BIP Consultants
  - The Southwest Basin Roundtable (Southwest BRT) PEPO Education Liaison, Denise Rue-Pastin, met with the Basin Implementation Plan (BIP) consultants on December 19, 2013. They discussed a variety of topics to include: each of their activities and information needs, methods to share information, and how they can support respective efforts. Rue-Pastin provided the consultants with a number of information pieces that they can share with people as they continue work on the IPP list and BIP. They will share information with Rue-Pastin related to the IPP/BIP as it becomes available so that she can update not only the EAP, but handouts and talking point presentations.
- Talking Points
  - A talking points PowerPoint presentation (submitted to CWCB) was developed for the Southwest BRT in 2012 and is updated periodically. In December 2013 it was

posted to the Water Information Program (WIP) website for Southwest BRT members to access and use.

- Op-Eds or Newspaper Articles
  - Bruce Whitehead wrote an op-ed piece that ran in the Durango Herald in early November 2013. Roundtable members were encouraged to follow up by writing local pieces. In addition, Hannah Holm with the Water Center at Colorado Mesa University obtained grant funds to expand West Slope roundtables coordination and collaboration efforts. All three of the West Slope roundtables will be contributing to newspaper articles, with ten planned for 2014. Holm is coordinating these efforts.
- Distribution of Fact Sheets
  - The CWCB produced a very informative Frequently Asked Questions (FAQs) and fact sheet related to the IBCC and roundtable process. Both pieces were distributed to each of the roundtable members at the Southwest BRT meeting on November 13, 2013 and again at their January 8, 2014 meeting. They were asked to share this information with their constituents. In addition, this information is available at the WIP office in Durango and is already being used and disseminated at various public events. Moreover, the WIP website (www.waterinfo.org) homepage provides information on the IBCC/roundtable process, including links to provide public input to the Colorado Water Plan.
- Local Workshops and Public Input Opportunities
  - Kate McIntire (CWCB), Kristin Maharg (CFWE), and Rue-Pastin conducted a one hour public education and outreach workshop session prior to the December 2013 Southwest BRT meeting. The majority of Southwest BRT members were in attendance for this and it was well received. In addition, the importance of public education and outreach was discussed as an agenda item during this meeting. Additionally, information about the IBCC/roundtable process is presented annually at the Water 101 Seminar, as well as other public input opportunities throughout the year. As an example, a presentation was made to the Durango Kiwanis Club on December 12th that provided an extensive discussion of Colorado's Water Plan, including a wide variety of handouts. Handouts related to Colorado's Water Plan were also available during the three week running of the second annual Water in the West Art Show that ran from October 25th to November 16th, 2013.

Yampa / White River Basin – January 2014 Outreach Summary

- Rio Grande River Basin Outreach Team
  - Ren Martyn, PEPO Education Liaison
  - BIP Consultant: AMEC
  - Sub-consultant for Outreach: Marsha Daughenbaugh, Community Agruculture Alliance
- Proposed BIP Public Education and Outreach Efforts include:
  - Public Meetings in Rangely, Meeker, Craig and Steamboat Springs
  - Newspaper Articles and Engagement in Craig, Meeker, Hayden and Steamboat Springs
  - Radio Station Ads and Engagement in Craig, Steamboat Springs and Vernal
  - Social Media Outreach: Partner Websites and Facebook, CWCB Website

Attachment F

COLORADO'S WATER PLAN

coloradowaterplan.com

cowaterplan@state.co.us

Direct 303-866-3441

Colorado's Water Plan – Status Update January 28, 2014

This status update was prepared by the Colorado Water Conservation Board in order to update stakeholders statewide on recent developments related to Colorado's Water Plan. Please check the Colorado's Water Plan website (www.coloradowaterplan.com) often for additional updates and email cowaterplan@state.co.us with any questions.

Recent Developments on Colorado's Water Plan

- A draft chapter and two sections of Colorado's Water Plan Framework were updated in January 2014. While Colorado's Water Plan is reliant on each basin's Basin Implementation Plan (BIP) (drafts due in July 2014), there are several sections that we can work on in the meantime.
- The Colorado Water Conservation Board (CWCB) has devoted significant thinking to the timeline for drafting each section of Colorado's Water Plan. Dates are included next to each chapter and section that correspond to the date of the CWCB Board meeting where those draft chapters and sections will be presented.
- The Colorado's Water Plan Framework was reviewed and discussed at the January 2014 CWCB Board meeting. In addition to incorporating CWCB Board and public comments, other updates to these documents consisted of moving **Section 5.4. Water Quality** below **Section 5.3. Watershed health/management**; adding **Chapter 7. Outreach and Participation** to the Framework in order to document outreach efforts statewide and at the basin level and explain how the public was engaged throughout the planning process; and incorporating potential water savings from land use practices into **Chapter 5.6.1. M&I Conservation, reuse, and land use**.
- Three draft sections of Colorado's Water Plan were presented at the January 2014 CWCB Board meeting for review and comment. These draft sections will continue to rely on content forthcoming from the BIPs, drafts of which are due to the CWCB in July 2014. Staff presented drafts of the following sections of Colorado's Water Plan:
    - **Chapter 1. Introduction and Background**
    - **Section 5.1. Scenario planning and adaptive management and no and low regrets**
    - **Section 5.2. Natural disaster management**
- The draft sections presented to the CWCB Board in January 2014 and Colorado's Water Plan Framework are posted online at www.coloradowaterplan.com.

- Public input is encouraged on all materials and developments related to Colorado's Water Plan. A public input agenda item will be added to the March 18-19, 2014 CWCB Board meeting. This will be an open opportunity for interested parties or groups to present public input on Colorado's Water Plan to the CWCB Board. If you would like to provide verbal input on this agenda item, please inform the CWCB by email at cowaterplan@state.co.us no later than February 28, 2014. Preference will be given to individuals or groups that submit formal written comments to the CWCB at cowaterplan@state.co.us. The agenda time for this item will be divided equally between individuals and groups. Depending on interest, similar opportunities for public input will be offered at future CWCB Board meetings in May, July, September, and November 2014. Visit www.coloradowaterplan.com to learn more.
- The Basin Roundtables continue to make progress on their BIPs across the state. To read more about their timelines and progress, find each basin's BIP consultant scope of work and other related documents online at www.coloradowaterplan.com.
- Below is more detailed information related to the sections of Colorado's Water Plan that were updated in January 2014:
    - The draft chapter and two sections presented in January 2014 mark critical progress on Colorado's Water Plan. Not only is there a Framework for Colorado's Water Plan, but extensive content is starting to be produced. These draft sections build on numerous work products produced over the past 8 years and will continue to be updated based on the content from the BIPs.
    - **Chapter 1. Introduction and Background** lays the groundwork for the rest of Colorado's Water Plan. It consists of three parts:
        - **Section 1.1. Summary of Colorado water and summary of plan**, reviews Colorado's water values and what the plan sets out to accomplish. Some portions of this section were pulled directly from the Governor's Executive Order.
        - **Section 1.2. Description of state, local, and federal entities that are involved in water administration, study, planning and project permitting**, reviews some of the major entities involved in permitting and planning in the state, and the CWCB has already received some verbal feedback from a few stakeholders on this section.
        - **1.3. Water demand by sector**, is a review of Colorado's Water Law and administration.
    - **Section 5.1. Scenario planning and adaptive management and no and low regrets,** provides scenario planning and adaptive strategies to the projects and methods considered in the plan.
        - This section is a short summary of the scenario work that was presented at the July 2013 CWCB Board meeting.

- As part of summarizing the work, CWCB staff sought to write the section in terms an intelligent lay person could understand.
- One of the most important parts of Section 5.1 is a path forward for what Colorado needs to do right now. The bullet list on pages six and seven of the draft version of Section 5.1 presented at the January, 2014 CWCB Board meeting represent the critical path forward for the near term.
- Section 5.1 goes on to discuss Colorado's adaptive strategies in the context of scenario planning.
- Some of Section 5.1 may be modified depending on the results of the Basin Implementation Plans. The work has been presented to four of the five Basin Roundtables so far and the CWCB is still seeking input.

o **Section 5.2 Natural disaster management**, provides an overview of the three major natural disasters that impact Colorado's water—Drought, Flood and Wildfire.

- Section 5.2 briefly examines how climate change may influence natural disasters that impact Colorado's water.
- Section 5.2 lays out coordination efforts and partnerships, both in place and possibilities for the future, that can help increase Colorado's preparedness to natural hazards.
- CWCB staff recognizes that only the first draft of Section 5.2 was presented in January 2014 and the agency still plans to cross check with other state, local, federal agencies and CWCB sections to make sure that we have captured all the efforts occurring.

- CWCB continues to work with partners on progress for other sections of Colorado's Water Plan. For instance, the Colorado Water Quality Control division has been working with the Water Quality Forum and CWCB to outline Colorado's Water Plan **Section 5.4. Water quality**.
- Registration is currently open for the Statewide Basin Roundtable Summit on March 6 in Denver and the agenda is also online at www.coloradowaterplan.com. This event will provide a great opportunity for roundtable members and the public to interact and share information statewide.
- The CWCB continues to post other documents and links to web pages produced by the basins and IBCC as a result of their planning processes. CWCB staff members are working closely with the Basin Roundtable chairs, the Public Education, Participation, and Outreach (PEPO) Education Liaisons, the selected consultants, and other Basin Roundtable members to coordinate this work and post all of the related documentation online at www.coloradowaterplan.com. In February 2014 a second meeting of the BRT consultants will be held to assist with coordinating work statewide on the Basin Implementation Plans.

Attachment G

Outcomes, City Council 2014 Workshop

A. Council Meetings and Governance

1. Agenda format and meeting process will be changed to clearly allow public comment on any item on the Regular Agenda. Order will be: staff report (and applicant's presentation, if any), Council questions; any public comment; Council motion followed by discussion and then action on the motion.

2. Council reports will be shifted to the end of the agenda. Public comment will remain where it has been (following Consent). Following the Regular Agenda, we will have: Business from Council; City Manager's Report; and City Attorney's Report; followed by Adjournment.

3. City Council will receive copies of "The Speed of Trust" by Stephen M. R. Covey.

B. Pulliam Building

1. Staff will take action to achieve clear title, removing requirements for opera chairs and community purpose. This may be achieved by direct staff work or by others.

2. A study session will be scheduled for Council consideration of options for use of the Pulliam. The study session will include a look at the project in two contexts: the total downtown; and the immediately surrounding properties which may come available for development.

C. Abatement of Unsafe Buildings

1. Council supports continuing a responsive mode to discovering building safety issues, not a deliberate program of inspection.

2. Council supports code enforcement, with extensions of exceptions to be returned to Council for discussion rather than indefinitely extended by staff.

3. Funding of abatement will be on a case-by-case basis.

4. Legal will prepare minor Code amendments to clarify process.

D. Development Center

1. Council supports moving ahead with the concept. Staff should engage customers in designing solutions and processes.

2. There is Council interest in other changes as well in: continued authority and leadership structure improvement; culture change; more individualized customer service structure.

3. Staff should publicize positive process changes and positive results.

E. Downtown Organizational Framework

1. Council supports moving ahead with development of a "robust and durable" downtown organization, with the expectation that final formation actions will be made prior to the end of 2014.

2. Staff will develop a financial plan for downtown over the long term, allowing a complete picture of likely financial commitment.

3. Process to develop this will include LDT and study session(s) with Council prior to decision. Private sector participation is essential, including the Chamber of Commerce).

4. Council is open to the funding base including a share of sales tax revenue from downtown, as well as other dedicated funding flows.

F. Special Events

1. Needs for other events can be addressed through Community Marketing Commission and lodging tax. City should remain at arms-length relationship with providers and vendors.

2. City Council should be sure to be present on co-sponsored events.

G. South Railroad Avenue/287 Redevelopment

1. Council supports staff moving forward with concept to expand Fire training grounds to west, acquire additional properties for natural areas, and enhance bicycle-pedestrian connection on Railroad Avenue and along the river corridor.

City of Loveland

CITY OF LOVELAND
WATER & POWER DEPARTMENT
200 North Wilson • Loveland, Colorado 80537
(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 14
MEETING DATE: 2/19/2014
SUBMITTED BY: Scott Dickmeyer, Staff Engineer – Water Resources

TITLE: Water Supply Update

DESCRIPTION:
Projection for raw water supply in 2014

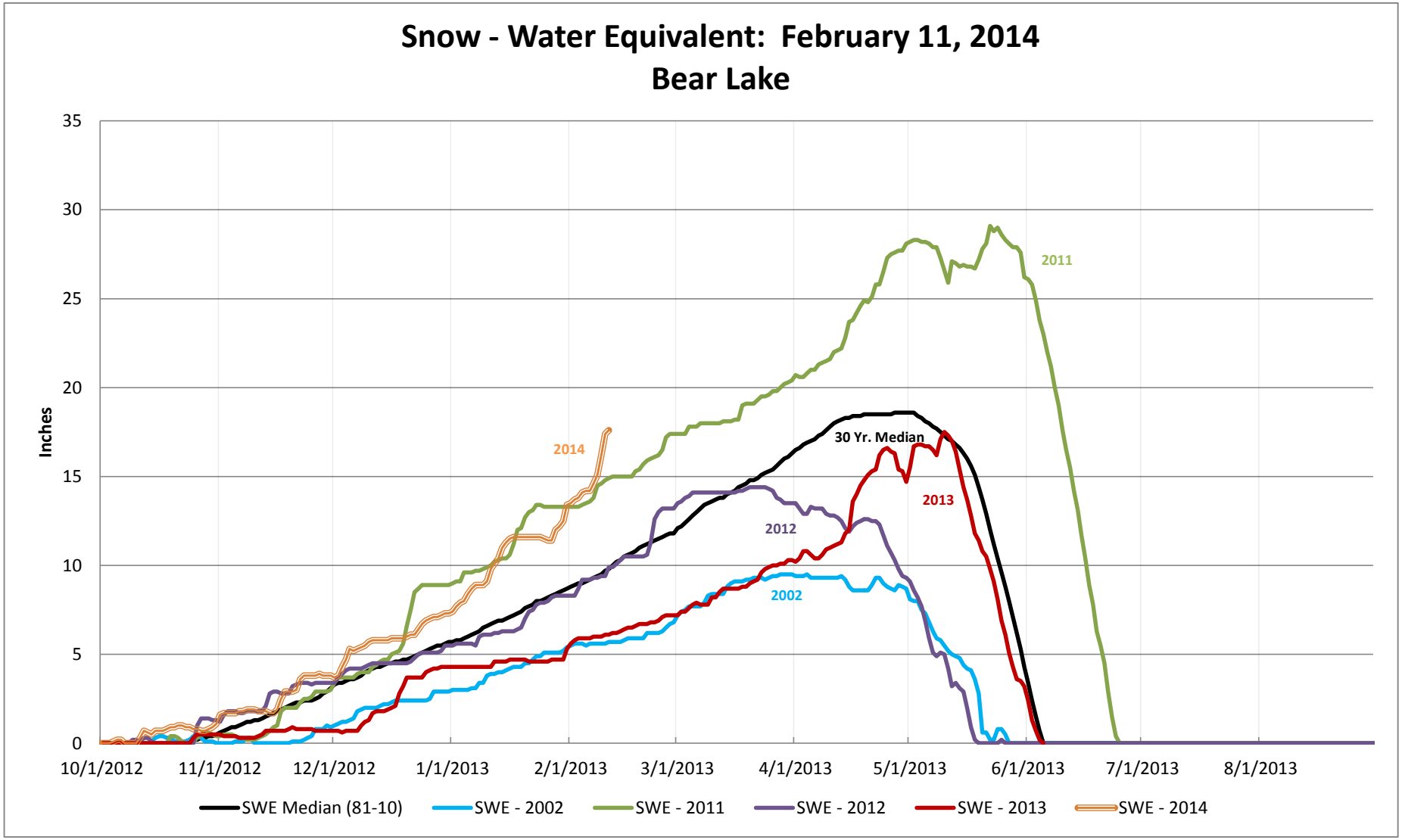
SUMMARY:
Attached is the Snow–Water Equivalent chart for Bear Lake station as of Tuesday, February 11, 2014. Water Resources Staff generated this chart to show a range of low, median, and high years as well as the current year-to-date snow accumulation for the Bear Lake SNOTEL station in the Big Thompson Watershed. Snowpack for the Bear Lake station continues to chart above average. Long range forecasts do not currently indicate any drier than normal conditions setting up for the spring, but that could always change (i.e. 2012).

The February 1, 2014 issue of Reclamation's "Water Supply and Utilization Report" is also attached for your information. All sites within the Project collection areas are above average on snow-water content. Most probable runoff forecasts for the Big Thompson Basin for February 1 were right around 100%. Significant snows have occurred during February, so the report for March 1 will be instructive. Local reservoir storage values are higher than average because of filling which occurred during the September storms. Consequently, diversions to local storage in the spring are expected to be lower than normal, adding to the usual river flows occurring at that time below those diversions.

RECOMMENDATION:
Information item only. No action required.

REVIEWED BY DIRECTOR: MS for SA

ATTACHMENTS:
Snow – Water Equivalent Chart for Bear Lake SNOTEL Station
February 1, 2014 USBR "Water Supply and Utilization Report", including a Snowpack Update graph showing the basin wide percentages of median values for various basins.


Snow - Water Equivalent: February 11, 2014
Bear Lake
Inches
35
30
25
20
15
10
5
0
10/1/2012
11/1/2012
12/1/2012
1/1/2013
2/1/2013
3/1/2013
4/1/2013
5/1/2013
6/1/2013
7/1/2013
8/1/2013
2011
30 Yr. Median
2014
2013
2012
2002
SWE Median (81-10)
SWE - 2002
SWE - 2011
SWE - 2012
SWE - 2013
SWE - 2014

WESTERN DIVISION SYSTEM
RESOURCES DIVISION
LOVELAND, COLORADO

FEBRUARY 1, 2014
WATER SUPPLY AND UTILIZATION REPORT
WESTERN DIVISION SYSTEM
PICK-SLOAN MISSOURI BASIN PROGRAM

PRECIPITATION ABOVE AVERAGE
TEMPERATURES VARIED

Precipitation was above average over the Colorado-Big Thompson Project (Project) during January. The Willow Creek and Lake Granby watersheds were the lowest at 122 percent of average. The Poudre watershed was the highest at 405 percent of average.

Temperatures over the Project were varied for the month.

PRECIPITATION

Watershed	January Precipitation			October-January Precipitation		
	2014 (Inches)	Avg1/ (Inches)	% of Avg	WY2014 (Inches)	Avg1/ (Inches)	% of Avg
Green Mtn.	2.77	1.22	227	6.51	5.02	130
Willow Crk.	1.46	1.20	122	4.59	4.78	96
L. Granby	1.46	1.20	122	4.59	4.78	96
L. Estes	1.52	0.66	230	5.24	3.48	151
St. Vrain	1.52	0.66	230	5.24	3.48	151
Poudre	1.54	0.38	405	3.69	2.55	145

1/ 30 year average, 1981-2010

INFLOWS ABOVE AVERAGE

Inflows were above average over the Project during January. The inflow to Green Mountain Reservoir was the lowest at 114 percent of average. The inflow to Lake Estes was the highest at 258 percent of average. Water year to date (October-January) inflows have been 151 percent of average.

RESERVOIR INFLOW

Reservoir	January Inflow			October-January Inflow		
	2014 (KAF)	Avg 1/ (KAF)	% of Avg	WY 2014 (KAF)	Avg 1/ (KAF)	% of Avg
Green Mtn.*	9.8	8.6	114	53.1	43.2	123
Willow Crk.	1.0	0.8	125	5.3	4.2	126
L. Granby	4.9	3.7	132	32.7	18.1	181
L. Estes 2/	3.1	1.2	258	18.7	7.4	253

*Total runoff of the watershed above Green Mountain does not include depletions by Denver and Colorado Springs.
1/ 30 year average, 1981-2010
2/ Lake Estes Computed Inflow

TRANSMOUNTAIN DIVERSIONS ABOVE AVERAGE

Transmountain diversions through Adams Tunnel during January were 131 percent of average. During January, 32,800 acre-feet of water was brought through the tunnel. Water year to date (October-January) diversions have been 63 percent of average.

TRANSMOUNTAIN DIVERSION

Adams Tun.	January			October-January		
	2014 (KAF)	Avg 1/ (KAF)	% of Avg.	WY 2014 (KAF)	Avg 1/ (KAF)	% of Avg
	32.8	25.1	131	48.9	77.8	63

1/ 30 year average, 1981-2010

RESERVOIR STORAGE VARIED

The Lake Granby storage of 350,100 acre-feet on January 31 was 2,100 acre-feet below average and 99,600 acre-feet higher than 1 year ago on this date. Terminal reservoir storage in Carter Lake and Horsetooth Reservoir was 78 and 100 percent of average, respectively.

Colorado-Big Thompson Project storage water in Lake Granby, Carter Lake, and Horsetooth was 515,100 acre-feet on January 31 which was 19,900 acre-feet below average and 64 percent of the total available storage capacity.

RESERVOIR STORAGE

	Total Storage on January 31						
Reservoir	2014 (KAF)	2014 (%of Avg)	2013 (KAF)	2012 (KAF)	2011 (KAF)	1981-10 Avg(KAF)	Total Storage Cap.(KAF)
Green Mtn	82.3	101	61.9	87.1	77.0	81.1	153.6
L. Granby	350.1	99	250.5	444.4	450.9	352.2	539.8
Horse-tooth	101.8	100	80.5	127.8	92.4	101.4	156.7
Carter L.	63.2	78	73.6	62.0	56.9	81.4	112.2
Dillon	239.7	107	171.9	242.7	220.9	223.4	254.0
Williams Fork	76.0	144	42.5	80.1	80.7	52.81/	96.8
Project	Total Storage Water in Lake Granby, Carter Lake, and Horsetooth Reservoir on January 31						
CBT	515.1	96	404.6	634.2	600.2	535.0	808.7

1/ 20 year average, 1970-1989.

SNOWPACK WATER CONTENT ABOVE AVERAGE

Snowpack water content on February 1 was 118 percent of the 1981-2010 average throughout the Project watersheds. The Lake Granby watershed was the lowest at 112 percent of average. The highest snowpack water content on the Project was recorded for the Green Mountain watershed at 123 percent of average

The snowpack update graph on the next page are readings from the Natural Resource Conservation Service automated SNOTEL sites (for snowpack telemetry). This system has replaced many of the manual measurements at the remote sites. The 1981-2010 median is being used.

Watershed	Feb 1 Snow-Water Content			Comparative Feb 1 Snow-Water Content			
	2014 (In.)	Avg. (In.)	% of Avg.	2013 (In.)	2012 (In.)	2011 (In.)	2010 (In.)
Green Mtn	11.1	9.0	123	4.8	6.4	13.9	6.4
Willow C	7.1	6.0	118	5.1	5.7	9.7	4.0
L. Granby	8.2	7.3	112	4.7	5.2	11.6	5.1
L. Estes	7.2	6.3	114	3.1	5.8	9.7	5.3
St. Vrain	7.2	6.0	120	2.4	6.0	7.7	4.1
Poudre	9.1	7.8	117	4.2	7.0	11.4	6.5

WATER SUPPLY OUTLOOK IS VARIED

Current February 1 water supply forecasts are varied over the Project watersheds. Forecasted April-July volumes range from 90 percent of average for the St. Vrain Creek at Lyons watershed to 119 percent of average for the Poudre River at Canyon Mouth watershed.

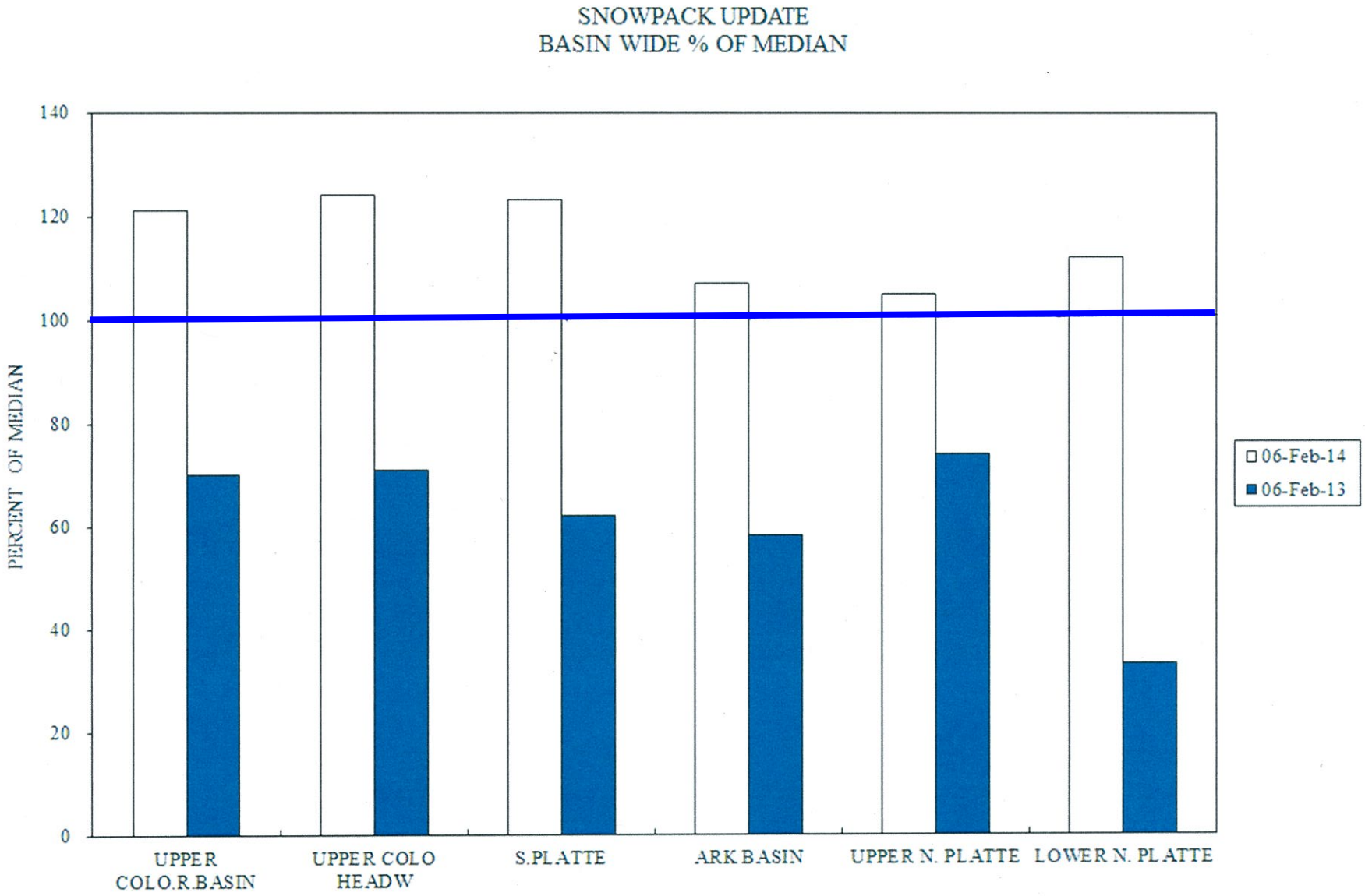
Feb 1 2014 Forecast of Apr-Jul Volume (KAF)									
	Chance of Exceeding					Comparative Apr-Jul Volume			(KAF)
Fore-Cast Point	**95% Reason-able Min 1/**	**75%**	**50% Most Probable**	**25 %**	**5% Reason-able Max 1/**	**2013**	**2012**	**Avg 2/**	**Most ProbAble % avg**
Green Mtn Res	272	300	319	338	366	230	119	273	117
Willow Crk Res	43	50	55	59	66	47	20	48	115
Lake Granby	187	208	223	238	260	186	107	197	113
Big Thompson River Above L.Estes	52	63	71	78	89	63	35	70	101
Big Thompson R. at Canyon Mouth	55	77	93	109	131	3/	38	93	100
St Vrain Crk at Lyons	52	68	78	89	104	3/	46	87	90
Poudre R. at Canyon Mouth	178	231	268	305	359	3/	99	226	119

1/ The probability is estimated to be 9 chances in 10 that the actual volume will fall between the reasonable minimum and reasonable maximum.

2/ Historical average:

Green Mtn: 1928-2013, Willow C: 1920-2013, Granby: 1928-2013, BT above Estes: 1936-2013, BTR @Canyon: 1947-2012, ST Vrain: 1954-2012, Poudre: 1954-2012

3/ Not available at this time.


SNOWPACK UPDATE
BASIN WIDE % OF MEDIAN
PERCENT OF MEDIAN
140
120
100
80
60
40
20
0
UPPER COLO.R.BASIN
UPPER COLO HEADW
S.PLATTE
ARK BASIN
UPPER N. PLATTE
LOWER N. PLATTE
06-Feb-14
06-Feb-13