Colorado Water Conservation Board Emergency Funding for Damaged River Diversions/Dams from the September 2013 Flood Event

Emergency Loan Application and Feasibility Study

Prepared for:

ST. VRAIN AND LEFT HAND WATER CONSERVANCY DISTRICT 9595 NELSON ROAD LONGMONT, CO 80501 303-772-4060

Prepared by: ST. VRAIN AND LEFT HAND WATER CONSERVANCY DISTRICT 9595 NELSON ROAD LONGMONT, CO 80501 303-772-4060

Signature	
Executive Director	Return a signed hard copy and an electronic copy to: CWCB Finance Section
Completed By/Title (Print)	1580 Logan, Suite 600 Denver, CO 80203
Sert 122/13	Attn: Anna Mauss Ph. 303 866 3441× 3224
Signature/Date	e-mail: <u>anna.mauss@state.co.us</u>

Application Deadline: December 2, 2013 (noon)

FEASIBILITY STUDY APPROVAL Pursuant to Colorado Revised Statutes 37-60-121 &122, and In accordance with policies adopted by the Board, the CWCB staff has determined this Feasibility Study meets all applicable requirements for approval. Signe

Agency/Company Information Name: St. Vrain and Left Hand Water Conservancy District, acting by and through its Water Activity Enterprise					
Address: 9595 Nelson Road, Longmont, CO 80501					
Phone:	303-772-4060	Email: offic	ce@svlhwcd.org		
Organi	zation Type: Water Conse	ervancy District under	[•] § 37-45-101 et seq.	Incorporated: N/A	
Establi	shed by Decree: April 19,	1971	In good standing with the	Secretary of State: N/A	
Numbe	er of acres irrigated: N/A		Number of [] Shares/[] T	aps: N/A	
Avg. W	ater Diverted/Yr: N/A				
Numbe	or of Shareholders? N/A		Current Assessment \$ N/	Ά	
			Projected Assessment \$	N/A	
Contac	ct Information		l		
Contac	t/Title: Sean Cronin, Exec	cutive Director			
Addres	s: 9595 Nelson Road, Lo	ngmont, CO 80501			
Phone:	303-772-4060	Email: sean.cronin	@svlhwcd.org		
Engine	er: Mark McLean, P.E., D	eere & Ault Consulta	nts, Inc.		
Phone:	303-651-1468	Email: mark.mclea	n@deereault.com		
Attorne	ey: Scott Holwick, Lyons G	addis Kahn Hall Jeff	ers Dworak & Grant, P.C.		
Phone:	303-776-9900	Email: sholwick@lg	gkhlaw.com		
Projec	t Location Information				
County	: Boulder		Water District: 5		
River E	Basin: South Platte River		Water Source: St. Vrair	n Creek	
Projec	t Summary				
Project	Type: (circle one or more) Lined Reservoir Em	bankment/Liner Repair and	Sediment Removal	
Estima	ted Engineering Costs: \$2	52,000	Estimated Construction C	osts:\$1,255,000	
Other 0	Costs (Describe Above):\$3	377,000 (contingency)	Estimated Total Project C	osts: \$1,884,000	
Reques	sted Loan Amount: \$1,884	4,000	Date Funding is Needed?	February 1, 2014	
Possib	le other funding sources:	FEMA – request for F	Public Assistance filed on Se	eptember 27, 2013	
Attach	ments				
[X]	Last two years Financial	Statements			
[]	Shareholders List: N/A				
[X]	[X] Establishment Decree/ By-laws				
[X]	Location Map(s)				
[]	Shareholder Resolution	(submit prior to contra	acting)		
[] Attorney Opinion Letter (submit prior to contracting)					
[X] W9					
[X] EFT Direct Deposit Authorization Form					
[X]	Deere & Ault Cost Estimate				

Project Background

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged. The Project repair/rehabilitation proposed in this Feasibility Study received significant damage as a result of the flood.

In November, 2001, the St. Vrain and Left Hand Water Conservancy District, acting by and through its Water Activity Enterprise (hereinafter "<u>SVLHWCD</u>") acquired an undivided 50% interest in real property which included a lined reservoir known as Rock'n WP Ranch Lake No. 4 (hereinafter "<u>Lake No. 4</u>"). Through the same transaction, Boulder County ("<u>County</u>") also acquired an undivided 50% interest in the real property including Lake No. 4. On November 29, 2001, SVLHWCD and the County entered into a Tenancy-In-Common Agreement which defines the parties' obligations relating to the real property including Lake No. 4.

The storage capacity in Lake No. 4 to which each of the co-owners is entitled is used by each coowner in different ways. For SVLHWCD, Lake No. 4 is a critical element in its integrated augmentation plan, decreed in Case No. 02CW334 on December 19, 2007 ("<u>Plan</u>"). Under its Plan, SVLHWCD makes releases of augmentation water to replace out-of-priority depletions generated by its approximately 240 members. For the County, Lake No. 4 is used primarily for in-reservoir purposes (recreation, fish and wildlife propagation) and is also decreed for releases to maintain minimum stream flows for fish, recreation and wildlife.

Pre-flood, Lake No. 4 had a physical capacity of approximately 600 acre-feet and had an intact, functioning liner approved by the State Engineer's Office. Its infrastructure included an inlet works (diversion structure off of the South Branch of St. Vrain Creek with flume and recorder), a water level recorder, and an outlet works (outlet gate, pipe, weir box and recorder). See attached Google photo with captions. Lake No. 4 is an off channel reservoir and generally receives very little uncontrolled inflow beyond precipitation on the water surface.

During the flood, St. Vrain Creek breached in four locations above the South Branch. <u>See</u> <u>attached</u> Google photo with captions. One river breach was in close proximity to Lake No. 4 and diverted water entirely out of the Creek and toward Lake No. 4 such that the normal stream channel was observed to be dry downstream of the breach. Video and photo evidence demonstrate that Lake No. 4 began taking on water after two unlined gravel pits up-gradient from Lake No. 4 were flooded. The unlined pits were overcome by the flow of the water and their earthen embankments failed creating a "new river" which flowed directly into Lake No. 4. Lake 4 filled and overflowed and eventually its eastern embankment was breached. <u>See attached</u> Google photo with captions.

It is estimated that the upstream breach into Lake No. 4 is approximately 300 feet wide and that the downstream breach out of the lake is approximately 100 feet wide. Beyond the breached extents, additional areas of the western and eastern embankments sustained significant overtopping damage that also must be repaired. Significant debris and sediment flowed into Lake No. 4 through the northwest breach which needs to be removed to restore its pre-flood capacity. Both breached and damaged sections of the liner embankments need to be restored and re-approved prior to SVLHWCD and the County using Lake No. 4 for its intended purposes.

Water Rights

The water rights impacted by this project include:

Name	Water	Appropriation	Adjudication	Amount	Est. Annual
	Court Case	Date	Date	(cfs or AF)	Yield (AF)*
Rock'n WP Ranch Lake	88CW74	4/23/1992	5/3/1995	880 AF	N/A
No. 4					
Rock'n WP Ranch Lake	01CW262	12/19/2001	4/26/2006	600 AF	150 AF
No. 4					
Rock'n WP Ranch Lake	02CW334	N/A	12/19/2007	Change in	N/A
No. 4				use	

* Average annual yield is estimated as one-fourth of the physical capacity.

Project Description

The project goal is to rebuild the breached clay slurry liner and earthen embankments and to remove all debris and sediment deposited within Lake No. 4 during the September 12 - 16, 2013 flood. SVLHWCD has retained Deere and Ault Consultants, Inc. and their licensed Professional Engineers to provide design and construction review services

<u>Alternative 1 – Do Nothing</u>: This alternative is considered unacceptable. Failure to restore Lake No. 4 would leave most of SVLHWCD's augmentation plan members without an augmentation source to replace their depletions. There are no other augmentation plan options, so the Division Engineer would need to curtail the depletions (many of which derive from residential domestic use).

<u>Alternative 2 – Rebuilding Collaboratively with Improvements</u>: Lake No. 4 could be rebuilt to an improved standard making it capable of withstanding similar future flood events by constructing the northwest and eastern embankments to be overtoppable (RCC) with a spillway over the eastern dam, and a new pumped outlet for delivering water to the Creek. Deere and Ault estimated the cost of this alternative (including contingencies) to be approximately \$7,151,000.00. Given the historic infrequency of this magnitude of flood event, SVLHWCD does not believe that the utility of such an improved structure supports the elevated cost.

<u>Selected Alternative 3 – Rebuild/restore the lined reservoir, including debris and sediment</u> <u>removal and embankment/liner rehabilitation</u>: The project will reconstruct the damaged facilities in the same location, size and for the same function as the pre-flood structure. The project will also remove debris and sediment to reclaim the physical storage capacity. The project will also insure the reservoir's capability to measure and record inflow, water level and outflow so that it can be utilized and administered as an augmentation delivery structure.

Cost Estimate

The Project cost estimate (including design engineering, construction of the repairs, construction engineering, and contingencies) provided by Deere & Ault Consultants, Inc. is \$1,884,000 and is further broken down as identified on the attached Engineers Estimate of Construction Costs.

SVLHWCD is applying for a loan not to exceed \$1,884,000.

Financial Analysis

SVLHWCD does not have any existing debt. SVLHWCD's sources of income include: (1) Augmentation membership fees; (2) Interest income; (3) District water rental (C-BT); (4) Longmont water rental (C-BT); and (5) transfer from SVLHWCD's general fund as allowed by statute.

Schedule

Design of the Project repairs is expected during Q2 of 2014. Construction of the Project repairs is expected to commence Q3/Q4, 2014. Project completion is estimated to occur during Q1 2015 in advance of the 2015 runoff.

Economic, Social, and Environmental Effects

Failure to reconstruct Lake No. 4 would result in adverse impacts to the majority of SVLHWCD's Plan members who would be left without an augmentation source to replace their depletions. There are no other augmentation options, so the Division Engineer would need to curtail the depletions (many of which derive from residential domestic use) caused by those members. Additional impact would be the loss of recreational opportunities to the public under both the County's St. Vrain Trail Master Plan and the St. Vrain Creek Corridor Open Space Management Plan. Another impact would be the loss of opportunity to release water to maintain minimum stream flows for fish, recreation and wildlife.

Permits

SVLHWCD may need State review and approval of the Project relating to dam safety. A grading permit from Boulder County will likely be required. SVLHWCD does not believe that it will need a permit from the US Army Corps of Engineers, but intends to consult with the USACE Regulatory Office to confirm.

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IN THE DISTRICT COURT IN AND FOR THE COUNTY OF WELD AND STATE OF COLORADO Civil Action No. 20881

218:55

IN THE MATTER OF ST. VRAIN AND LEFT HAND WATER CONSERVANCY)	FINDINGS	AND	DECREE	•
DISTRICT)	÷			

THIS CAUSE coming on for hearing on the 19th day of April, 1971, upon betition for the establishing of a water conservancy district under the "Water Conservancy Act" of the State of Colorado (COLO. REV. STAT. ANN. Secs. 150-5-1 to 50 (1963)) as amended, and the Court after full hearing DOTH FIND:

1....The Court has full and complete jurisdiction in this. proceeding, and of the parties to and the subject matter of this proceeding.

2. The petition in this cause for establishment of St. Vrain and Loft Hand Water Conservancy District was filed in the office of the Clerk of the District Court in and for the County of Weld on the 31st day of Docomber, 1970, together with a bond sufficient to pay all expenses connected with the proceedings in case the organization of the district be not effected. On said day, this Court by order approved the bond, fixed March 19, 1971, at 9:30 A.M. as the time, and the District Court in and for the County of Weld and State of Colorado as the place for hearing of said petition, and directed the Clerk of this Court to give notice as required by COLO. REV. STAT. ANN. Sec. 150-5-6 (1963).

The Clerk of this Court, pursuant to such order 3. dated December 31, 1970, did cause notice of the pendency of the petition and notice of the time and place of hearing thereon to be given by publication once each week for four successive weeks in "The Greeley Daily Tribune" a legal newspaper of general circulation in the County of Weld; once each weak for four successive weeks in the "Loveland Daily Reporter-Herald",

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a legal newspaper of general circulation in the County of Larimer; and once each week for four successive weeks in the "Longmont Daily Times-Call", a legal newspaper of general circulation in the County of Bouldor. The publication was made in each of the newspapers in the manner required by law. The Clerk of this Court further caused a copy of notice of pendency of the petition and hearing thercon to be mailed by registered mail to the Boards of County Commissioners of the Counties of Weld, Larimer and Boulder.

4. The petition sets forth all matters required by COLO. REV. STAT. ANN. Sec. 150-5-4 (3)(1963).

5. There is no city or city and county having a population of more than 25,000 as determined by the last United States Census to be included within the boundaries of the proposed district.

6. The assessed valuation of the irrigated lands within the boundaries of the proposed district is less than \$20,000,000.00.

7. The petition in all respects complies with and conforms to the requirements of said Water Conservancy Act. The petition has been signed by not fewer than twenty-five percent of the owners of irrigated land of an assessed value of not less than one thousand dollars and by not fewer than five per cent of the owners of non-irrigated land or lands embraced in the incorporated limits of a city or town of an assessed value of not less than one thousand dollars.

8. The allegations of said petition are true, said petition in its form and content is proper in all its respects, and said petition, together with signatures in support thereof, is approved by the Court.

9. No protesting petitions as provided for in COLO. REV. STAT. ANN. Sec. 150-5-7 (1963) as amended, have been filed herein.

10. The property within the proposed district will be benefited by accomplishment of the following purposes, to-wit:

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Construction of "Works" as defined in said Water Conservancy Act for conserving, developing, stabilizing and acquiring the supplies of water for domestic, irrigation, power, manufacturing and other beneficial uses, and by water management, augmentation, replacement, exchange and ground water storage.

11. The purposes for which the district is established are the following:

a. To provide for the beneficial use of water within the boundaries of the proposed district and within the State of Colorado for agricultural, domestic, municipal, industrial, flood control, recreation and other uses under the presently established doctrine of prior appropriation and under existing decrees, filings, and applications for water rights.

b. To perfect applications for water rights and statements of appropriations heretofore made, or which may hereafter be made or acquired by this proposed Water Conservancy District for water rights of the South Platte Basin, and waters tributary to the South Platte River and water rights in Western Colorado, including waters of the Colorado River and its tributaries, at elevations such that water can be collected and conducted through existing transmountain diversion structures, any new transmountain diversion structures or any other routes or structures for use in the St. Vrain Valley in Eastern Colorado within the boundaries of the proposed district.

c. To promote the authorization and construction of water storage reservoirs, for agricultual, municipal, as well as domestic and recreation use, and to acquire a beneficial interest in the waters thereof.

d. To protect the interest of the owners or present appropriators of water within the proposed district as they may be effected by the development of additional storage by the United States Bureau of Reclamation or the Corps of Engineers of the Department of the Army, United States of

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America, at Narrows, Chatfield, Two Forks, VanBibber, Mount Carbon, Cherry Creek or other sites which are now being proposed or which may be proposed in the future.

e. To foster the establishment of operating principles of storage reservoirs in the St. Vrain River Basin and the entire South Platte River Basin which will protect and recognize existing priorities and statements of appropriation, as well as the present and historical practice of river administration and exchange to secure the optimum beneficial use of the ground water aquifers and surface waters of the St. Vrain River and the South Platte Basin, within the boundaries of the proposed district.

To promote the beneficial use of water for all munif. cipal uses, including domestic use, mechanical use, manufacturing use, generation of electric power, power generally, fire protection, use for sewage treatment, street sprinkling, watering of parks, trees, lawns and grounds, the maintaining of adequate storage reserves, irrigation, replacement, adjustment and regulation of all the units of all the water systems of the municipalities and irrigation systems within the St. Vrain Basin and within the proposed district, to appropriate waters of the aquifers of the St. Vrain Basin and aquifers within the South Platte River Basin and its tributaries, Water Division 1, State of Colorado, and to initiate the practice of using any of said waters for the purpose of effectuating an exchange or transfer of water upstream for use within the district by use of any public stream or waters in substitution for water supplied to or applied to beneficial use by any of the water users within the proposed district, and for the further purpose of supplying downstream priorities by means of ground water or surface withdrawals to enable diversion of stream flow by junior appropriators within the district and to prevent a call for waters from the St. Vrain Basin by supplying legal calls downstream from ground

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water aquifers. Nothing in this paragraph 11. f. of this Findings and Decree set forth shall operate to the injury of any irrigation system or any farm thereunder. Municipal systems and irrigation systems shall be treated equitably. g. To promote the purposes of the "Water Conservancy Act" of Colorado as set forth in Colorado Revised Statutes 1963, Section 150-5-1, within the boundaries of the proposed district,

h, To maintain irrigated agriculture within the St. Vrain basin and within the proposed district and the areas irrigated by irrigation systems whose diversion works are on the St. Vrain River or its tributaries and to supply a full water right for irrigated lands in the basin. No change of point of diversion, plan of augmentation, change of water right or change of use or the place thereof shall injure any vested right.

j. To integrate, manage, use, reuse, exchange, substitute and apply to beneficial use waters of the ground water aquifers of the St. Vrain basin and the South Platte basin which are tributary to the St. Vrain and South Platte River as defined by the Water Rights Determination and Administration Act of 1969, or legislation amendatory or in substitution thereof.

12. The territory to be included in the district is territory described as follows:

A portion of Boulder, Larimer and Weld Counties, Colorado, described as follows:

Beginning at the NE corner of Sec. 27, T. 4 N., R. 67 W. of the 6th P.M., thence southerly 3 miles, more or less to the SE corner of Sec. 3, T. 3 N., R. (67 W; thence westerly 1 mile, more or less, to the SW corner of said Sec. 3; thence southerly 4.5 miles, more or less, to the E_4^1 corner of Sec. (33, T. 3 N., R. 67 W; thence westerly 1 mile, more (or less, to the W_4^1 corner of said Sec. 33; thence southerly 0.5 miles, more or less, to the SE corner (of Sec. 32; thence westerly 1 mile, more or less, to the SW corner of Sec. 32, T. 3 N., R. 67 W; thence southerly 0.5 miles, more or less, to the E_4^1 corner of Sec. 6, T. 2 N., R. 67 W; thence westerly 4 miles, more or less, to the W_4^1 corner

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of Sec. 3, T. 2 N., R. 68 W; thence southerly 0.5 miles, more or less, to the SE corner of Sec. 4; thence westerly 1 mile, more or less, to the SW corner of said Sec. 4; thence southerly 1 mile, more or less, to the SE corner of Sec. 8; thence westerly 1 mile, more or less, to the SW corner of said Sec. 8; thence southerly 1 mile, more or less, to the SE corner of Sec. 18, T. 2N., R. 68 W; thence westerly 3.5 miles, more or less, to the N¹/₄ corner of Sec. 22, T. 2 N., R. 69 W; thence southerly 2 miles, more or less, to the S¹/₄ corner of Sec. 27; thence westerly 2.5 miles, more or less to the SW corner of Sec. 29; thence southerly 0.5 miles, more or less, to the E¹/₄ couper of Sec. 21: thence westerly 1 mile more or less. 29; thence southerly 0.5 miles, more or less, to the E4 corner of Sec. 31; thence westerly 1 mile, more or less, to the E4 corner of Sec. 36, T. 2 N., R. 70 W; thence southerly 0.5 miles, more or less, to the SE corner of said Sec. 36; thence westerly 1 mile, more or less, to the SW corner of said Sec. 36; thence northerly 0.5 miles, more or less, to the W4 corner of said Sec. 36; thence westerly 1 mile, more or less, to the E4 corner of Sec. 34; thence southerly 0.5 miles, more or less, to the SE corner of said Sec. 34; thence westerly 4 miles, more or less, to the SW corner of Sec. 31, T. 2 N., R. 70 W; thence northerly 1 mile, more or less, to the SE corner of Sec. 25, T. 2 N., R. 71 W; thence westerly 2 miles, more or less, to the SW corner of Sec. 26; thence southerly 1 mile, more or less, to the SE corner of Sec. 34, T. 2 N., R. 71 W; thence westerly 2 miles, more or less, to the NE corner of Sec. 5, T. 1 N., R. 71 W; thence southerly 1 mile, more or less, to the SE corner of Sec. 5; thence westerly 1.5 miles, to the SE corner of said Sec. 5; thence westerly 1.5 miles, more or less, to the N_4^1 corner of Sec. 7; thence southerly 0.5 miles, more or less, to the center of said Sec. 7, T. 1 N., R. 71 W; thence westerly 3.5 miles, more or less, to the E_4^1 corner of Sec. 9, T. 1 N., R. 72 W; thence southerly 1 mile, more or less, to the E_4^1 corner of Sec. 16, T. 1 N., P. 72 W: thence westerly 7 miles more or less to the W1 R. 72 W; thence westerly 7 miles, more or less, to the W_4^1 corner of Sec. 16, T. 1 N., R. 73 W; thence northerly 0.5 miles, more or less, to the NW corner of said Sec. 16; thence westerly 3.5 miles, more or less, to the Continental Divide; thence northerly on a meandering line along said Continental Divide to an intersection with the Boulder-Larimer County line; thence along said line easterly 3 miles, more or less; whence the NW corner of Sec. 4, T. 3 N., R. 73 W. bears easterly 1 mile more or less; thence northerly 2 miles, more or less; thence easterly 2 miles, more or less, to the NW corner of Sec. 27, T. 4 N., R. 73 W; thence con-tinuing easterly 2 miles, more or less, to the NE corner of Sec. 26: thence southerly 2 miles more or less to of Sec. 26; thence southerly 2 miles, more or less, to the SE corner of Sec. 35, T. 4 N., R. 73 W; thence easterly 1 mile, more or less, to the NW corner of Sec. 6, T. 3 N., R. 72 W; thence southerly 0.5 miles, more or less, to the W_{4}^{1} corner of said Sec. 6; thence easterly 6 miles, more or less, to the W_{4}^{1} corner of Sec. 6, T. 3 N., R. 71 W; thence northerly 0.5 miles, more or less, to the NW corner of northerly 0.5 miles, more of less, to the NW corner of said Sec. 6; thence easterly 1 mile, more or less, to the 'NE corner of said Sec. 6; thence easterly 21 miles, more or less, to the NE corner of Sec. 3, T. 3 N., R. 68 W; thence northerly 1 mile, more or less, to the NW corner of Sec. 35, T. 4 N., R. 68 W; thence easterly 2 miles, more or less, to the NE corner of Sec. 36, T. 4 N., R. 68 W: thence northerly 1 mile more or less to the NW 68 W; thence northerly 1 mile, more or less, to the NW corner of Sec. 30, T. 4 N., R. 67 W; thence easterly 4 miles, more or less, to the NE corner of Sec. 27, T. 4 N., R. 67 W, and the point of beginning, all west of the 6th Principal Meridian.

13. The territory above described should be constituted,

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created and established as a water conservancy district under the Water Conservancy Act of Colorado under the corporate name of St. Vrain and Left Hand Water Conservancy District.

14. The Board of Directors of the District shall consist of nine directors, one director shall be appointed from each of seven districts, the boundaries of which said director districts are described as follows:

Director District No. 1:

That portion of Weld County, Colorado, described as follows:

Beginning at the NE corner of Sec. 27, T. 4 N., R. 67 W, thence southerly 3 miles, more or less, to the SE corner of See. 3, T. 3 N., R. 67 W; thence westerly 1 mile, more or less to the SW corner of said Sec. 3; thence southerly 4.5 miles, more or less, to the E4 corner of Sec. 33, T. 3 N., R. 67 W; thence westerly 1 mile, more or less, to the W4 corner of said Sec. 33; thence southerly 0.5 miles, more or less, to the SE corner of Sec. 32; thence westerly 1 mile, more or less, to the SW corner of Sec. 32, T. 3 N., R. 67 W; thence southerly 0.5 miles, more or less, to the E4 corner of Sec. 6, T. 2 N., R. 67 W; thence westerly 4 miles, more or less, to the W4 corner of Sec. 3, T. 2 N., R. 68 W; thence northerly 6.5 miles, more or less, to the NW corner of Sec. 3, T. 3 N., R. 68 W; thence easterly 1 mile, more or less, to the NE corner of said Sec. 3; thence northerly 1 mile, more or less, to the NW corner of Sec. 35, T. 4 N., R. 68 W; thence easterly 2 miles, more or less, to the NE corner of Sec. 36, T. 4 N., R. 68 W; thence northerly 1 mile, more or less, to the NW corner of Sec. 30, T. 4 N., K. 67 W; thence easterly 4 miles, more or less, to the NE corner of Sec. 27, T. 4 N., R. 67 W. and the point of beginning, all west of the 6th Principal Meridian.

Director District No. 2:

A portion of Weld and Boulder Counties, Colorado, described as follows:

Beginning at the NE corner of Sec. 4, T. 3 N., R. 68 W; thence southerly 5 miles, more or less, to the SE corner of Sec. 28, T. 3 N., R. 68 W; thence westerly 3 miles, more or less, to the SW corner of Sec. 30, T. 3 N., R. 68 W; thence along the county line road northerly 1 mile, more or less, to the NW corner of said Sec. 30; thence westerly 3 miles, more or less, to the SW corner of Sec. 22, T. 3 N., R. 69 W; thence northerly 2 miles, more or less, to the SE corner of Sec. 9; thence westerly 4 miles, more or less, to the SW corner of Sec. 12, T. 3 N., R. 70 W; thence northerly 2 miles, more or less, to the NW corner of Sec. 1, T. 3 N., R. 70 W; thence easterly 10 miles, more or less, to the NE corner of Sec. 4, T. 3 N., R. 68 W. and the

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point of beginning, all west of the 6th Principal Meridian.

Director District No. 3:

A portion of Boulder County described as follows:

Beginning at the NE corner of Sec. 33, T. 3 N., R. 68 W; thence southerly 2 miles, more or less, to the SE corner of Sec. 4, T. 2 N., R. 68 W; thence westerly 1 mile, more or less, to the SW corner of said Sec. 4; thence southerly 1 mile, more or less, to the SE corner of Sec. 8; thence westerly 1 mile, more or less, to the SW corner of said Sec. 8; thence northerly 0.5 miles, more or less to the W2 corner of said Sec. 8, T. 2 N., R. 68 W; thence westerly 3 miles, more or less, to the E2 corner of Sec. 10, T. 2 N., R. 69 W; thence along the southerly and westerly Longmont City Limits to the E2 corner of Sec. 5; thence westerly 1 mile, more or less, to the W2 corner of said Sec. 5; thence northerly 0.5 miles, more or less, to the SE corner of Sec. 31, T. 3 N., R. 69 W; thence westerly 1.5 miles, more or less, to the S2 corner of Sec. 36; T. 3 N., R. 70 W; thence northerly 0.5 miles, more or less, to the center of said Sec. 36; thence westerly 0.5 miles, more or less, to the W4 corner of said Sec. 36; thence northerly 0.5 miles, more or less, to the NW corner of said Sec. 36; thence westerly 0.5 miles, more or less, to the S2 corner of Sec. 26; thence northerly 0.5 miles, more or less, to the center of said Sec. 26; thence westerly 1 mile, more or less, to the NW corner of Sec. 36; thence westerly 0.5 miles, more or less, to the S4 corner of Sec. 26; thence northerly 0.5 miles, more or less, to the center of said Sec. 22; thence westerly 2 miles, more or less, to the W4 corner of Sec. 22; thence westerly 0.5 miles, more or less, to the SW corner of said Sec. 22; thence northerly 0.5 miles, more or less, to the W4 corner of Sec. 20; thence northerly 0.5 miles, more or less, to the S2 corner of Sec. 17, T. 3 N., R. 70 W; thence casterly 8 miles, more or less, to the NE corner of Sec. 16, T. 3 N., R. 69 W; thence southerly 2 miles, more or less, to the SE corner of Sec. 21; thence easterly 3 miles, more or less, to the NE corner of Sec. 25, T. 3 N., R. 69 W; thence along the county road southerly 1 mile, more or les

Director District No. 4:

A portion of Weld and Boulder Counties, Colorado, described as follows:

Beginning at the E_1^4 corner of Sec. 7, T. 2 N., R. 68 W; thence southerly 1.5 miles, more or less to the SE corner of Sec. 18, T. 2 N., R. 68 W; thence westerly 7.5 miles, more or less, to the S_2^4 corner of Sec. 13, T. 2 N., R. 70 W; thence northerly 1.5 miles, more or less, to the center of Sec. 12; thence westerly 2.5 miles, more or less, to the W_4^4 corner of Sec. 10; thence northerly 1.5 miles, more or less, to the NW corner of Sec. 3; thence westerly 3 miles, more or less, to the SW corner of Sec. 31, T. 3 N., R. 70 W; thence northerly 3 miles, more or less, to the NW corner of Sec. 19; thence easterly 1 mile, more or less, to the NE corner of said Sec. 19; thence southerly 0.5 miles, more or less, to the E_4^4 corner of said Sec. 19; thence easterly 2 miles, more or less, to the W_4^4 corner of Sec. 22; thence southerly 0.5 miles, more or less, to the SV

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corner of said Sec. 22; thence easterly 0.5 miles, more or less, to the S¹/₄ corner of said Sec. 22; thence southerly 0.5 miles, more or less, to the center of Sec. 27; thence easterly 1 mile, more or less, to the center of Sec. 26; thence southerly 0.5 miles, more or less, to the S¹/₄ corner of said Sec. 26; thence easterly 0.5 miles, more or less, to the SE corner of said Sec. 26; thence southerly 0.5 miles, more or less, to the W¹/₄ corner of Sec. 36; thence easterly 0.5 miles, more or less, to the center of said Sec. 36; thence southerly 0.5 miles, more or less, to the S¹/₄ corner of said Sec. 36, T. 3 N., R. 70 W; thence easterly 1.5 miles, more or less, to the NW corner of Sec. 5, T. 2 N., R. 69 W; thence southerly 0.5 miles, more or less, to the W¹/₄ corner of said Sec. 5; thence easterly 1.0 mile, more or less, to the E¹/₄ corner of said Sec. 5; thence along the westerly and southerly Longmont City limits to the E¹/₄ corner of Sec. 10, T. 2 N., R. 69 W; thence easterly 3 miles, more or less, to the E¹/₄ corner of Sec. 7, T. 2 N., R. 68 W. and the true point of beginning, all west of the 6th Principal Meridian.

Director District No. 5:

That portion of Boulder County, Colorado, described as follows:

Beginning at the N¹ corner of Sec. 22, T. 2 N., R. 69 W. of the 6th P.M.; thence southerly 2 miles, more or less, to the S¹ corner of Sec. 27; thence westerly 2.5 miles, more or less, to the SW corner of Sec. 29; thence southerly 0.5 miles, more or less, to the E¹ corner of Sec. 31; thence westerly 1 mile, more or less, to the E¹ corner of Sec. 36, T. 2 N., R. 70 W; thence southerly 0.5 miles, more or less, to the SE corner of said Sec. 36; thence westerly 1 mile, more or less, to the SW corner of said Sec. 36; thence northerly 0.5 miles, more or less, to the W¹ corner of said Sec. 36; thence westerly 1 mile, more or less, to the E¹ corner of Sec. 34; thence southerly 0.5 miles, more or less, to the SE corner of said Sec. 34; thence westerly 4 miles, more or less, to the SW corner of Sec. 31; thence northerly 1 mile, more or less, to the SE corner of Sec. 25, T. 2 N., R. 71 W; thence westerly 2 miles, more or less, to the SW corner of Sec. 26; thence northerly 2 miles, more or less, to the NW corner of Sec. 23; thence easterly 1 mile, more or less, to the NE corner of said Sec. 23; thence northerly 1 mile, more or less, to the NW corner of Sec. 13; thence easterly 1 mile, more or less, to the NW corner of said Sec. 13, T. 2 N., R. 71 W; thence hortherly 2 miles, more or less, to the NE corner of Sec. 6, T. 2 N., R. 70 W; thence easterly 3 miles, more or less, to the NE corner of Sec. 4; thence southerly 1.5 miles, more or less, to the W¹ corner of Sec. 10; thence easterly 2.5 miles, more or less, to the Corner of Sec. 12; thence southerly 1.5 miles, more or less, to the S¹ corner of Sec. 13; thence easterly 3 miles, more or less, to the N¹ corner of Sec. 4; thence southerly 1.5 miles, more or less, to the W¹ corner of Sec. 10; thence easterly 2.5 miles, more or less, to the center of Sec. 12; thence southerly 1.5 miles, more or less, to the S¹ corner of Sec. 13; thence easterly 4 miles, more or less, to the N¹ corner of Sec. 22, T. 2 N., R. 69 W. and the point of beginning, all west o

Director District No. 6:

That portion of Boulder and Larimer Counties, Colorado, described as follows:

Beginning at the NE corner of Sec. 2, T. 3 N., R. 70 W.

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of the 6th P.M., thence southerly 2 miles, more or less, to the SE corner of Sec. 11; thence westerly 4 miles more or less, to the NW corner of Sec. 17; thence southerly 1 mile, more or less, to the SW corner of Sec. 17; thence westerly 1 mile, more or less, to the NW corner of Sec. 19; T. 3 N., R. 70 W; thence southerly 5 miles, more or less, to the SE corner of Sec. 12, T. 2 N., R. 71 W; thence westerly 1 mile, more or less, to the SW corner of said Sec. 12; thence southerly 1 mile, more or less, to the SE corner of Sec. 14; thence westerly 1 mile, more or less, to the SW corner of said Sec. 14; thence southerly 3 miles; more or less, to the SE corner of Sec. 34; thence westerly 2 miles, more or less, to the NE corner of Sec. 5, T. 1 N., R. 71 W; thence southerly 1 mile, more or less, to the SE corner of said Sec. 5; thence westerly 1.5 miles, more or less, to the N⁴ corner thence westerly 1.5 miles, more or less, to the N_4^1 corner of Sec. 7; thence southerly 0.5 miles, more or less, to of Sec. 7; thence southerly 0.5 miles, more or less, to the center of said Sec. 7; thence westerly 3.5 miles, more or less, to the E_4^1 corner of Sec. 9, T. 1 N., R. 72 W; thence southerly 1 mile, more or less, to the E_4^1 corner of Sec. 16; thence westerly 7 miles, more or less, to the W_4^1 corner of Sec. 16, T. 1 N., R. 73 W; thence northerly 0.5 miles, more or less, to the NW corner of said Sec. 16; thence westerly 3.5 miles, more or less, to the Continental Divide: thence northerly on a meandering to the Continental Divide; thence northerly on a meandering line along said Continental Divide to an intersection with to the continental Divide to an intersection with line along said Continental Divide to an intersection with the Boulder-Larimer County line; thence along said line easterly 3 miles, more or less; whence the NW corner of Sec. 4, T. 3 N., R. 73 W. bears easterly 1 mile more or less; thence northerly 2 miles, more or less; thence easterly 2 miles, more or less, to the NW corner of Sec. 27, T. 4 N., R. 73 W; thence continuing easterly 2 miles, more or less, to the NE corner of Sec. 26; thence southerly 2 miles, more or less, to the SE corner of Sec. 35, T. 4 N., R. 73 W; thence easterly 1 mile, more or less, to the N., R. 73 W; thence easterly 1 mile, more or less, to the 2 miles, more or less, to the SE corner of Sec. 35, T. 4 N., R. 73 W; thence easterly 1 mile, more or less, to the NW corner of Sec. 6, T. 3 N., R. 72 W; thence southerly 0.5 miles, more or less, to the W_4^1 corner of said Sec. 6; thence easterly 6 miles, more or less, to the W_4^1 corner of Sec. 6, T. 3 N., R. 71 W; thence northerly 0.5 miles, more or less, to the NW corner of said Sec. 6; thence easterly 1 mile, more or less, to the NE corner of said Sec. 6; thence continuing easterly 10 miles, more or less, to the NE corner of Sec. 2, T. 3 N., R. 70 W. and the point of beginning, all west of the 6th Principal Meridian.

Director District No. 7:

That portion of Boulder County, Colorado, within the limits of the City of Longmont.

Said director districts are formed solely for the purpose of selection of directors. The remaining two directors shall be appointed at large from the district as a whole, but no more than two directors shall be appointed from any one of the said seven districts. A director to be eligible for the office of director must reside in the district which he represents. All directors shall be appointed by the Court in accordance with the provisions of Colorado Revised Statutes of 1963, Section

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150-5-9, as amended.

WHEREFORE, it is by the Court ordered, adjudged, declared and decreed that the territory above described be and the same hereby is organized, constituted, created and established as a water conservancy district under the Water Conservancy Act of Colorado, with the corporate name of St. Vrain and Left Hand Water Conservancy District, with its office or principal place of business in the city of Longmont, Colorado, in Boulder County, Colorado.

Done in open Court this 19th day of April, 1971.

BY THE COURT:

Howald a. Conpecti Destauct Andre

AMENDED AND RESTATED BYLAWS

OF

THE ST. VRAIN AND LEFT HAND WATER CONSERVANCY DISTRICT

ARTICLE I

Identification

1.1 NAME. The St. Vrain and Left Hand Water Conservancy District (the District).

1.2 PRINCIPAL OFFICE. The principal office of the District shall be in Longmont, Colorado, or at such other place within the boundaries of the district as the Board of Directors may designate.

1.3 ORGANIZATION AND PURPOSE. The District was established by decree of the Weld County District Court in Civil Action No. 20881 on April 19, 1971 (the Decree), and is organized and operates pursuant to the provisions of the Colorado Water Conservancy Act, as amended (the Act), which is contained in Article 45 of Title 37, C.R.S. The organization and operation of the District shall be in accordance with the provisions of the Act, the Decree, and applicable state law. Any provisions of these Bylaws which are inconsistent with the Act, the Decree, or applicable state law shall be void.

ARTICLE II

Board of Directors

2.1 GENERAL POWERS. The business and affairs of the District shall be managed by its Board of Directors (the Board), except as otherwise provided in the Act or the Decree.

2.2 NUMBER, TENURE AND QUALIFICATIONS. The Board shall consist of nine directors. One director shall be appointed from each of the District's seven Director Districts and the remaining two directors shall be appointed at large from the District as a whole, but no more than two directors shall be appointed from any one of the seven Director Districts. A director must reside within the District as a whole, within the Director District which s/he represents, and own real property in the District. Additionally, a director must be knowledgeable in water matters. Each director shall hold office during the term for which s/he is appointed and until his or her successor is duly appointed and has qualified. Each director shall furnish a corporate surety bond at the expense of the District, in the amount and form fixed and approved by the Court, conditioned on the faithful performance of his or her duties as a director.

2.3 RESIGNATION AND VACANCIES. Any director may resign by giving written notice to the President or to the Secretary of the District prior to the expiration of his or her term. Such resignation shall take effect at the time the director's successor is duly appointed and has qualified. Unless otherwise specified in the written notice, the District's acceptance of such resignation shall not be necessary to make it effective. Any vacancy occurring on the Board shall be filled by the Court for the duration of the resigning director's unexpired term. A notice of the vacancy to be filled shall

be published once a week for two successive weeks in newspapers of general circulation in Weld County, Boulder County and Larimer County, Colorado and shall be concurrently posted on the District's web site, or the media outlet of the Board's choice. Said notice shall contain a date, to be selected by the Board of Directors, by which applications for the vacancy must be submitted to the Court, but in no case shall said date be less than ten days after the last newspaper publication. Said notice shall also specify the address of the Court to which applications may be sent, and that the applicant must have resided within the District as a whole for a period of one year, must reside at the time of application within the Director District which s/he desires to represent, and must own real property in the District.

2.4 DUTIES OF A DIRECTOR. Before entering upon his or her official duties, each director shall take and subscribe to an oath before an officer authorized to administer oaths, that s/he will support the Constitution of the United States and of the State of Colorado and will honestly, faithfully, and impartially perform the duties of his or her office, and that s/he will not be interested directly or indirectly in any contract let by the District. A copy of each director's oath shall be filed in the office of the Clerk of the Weld County District Court. Regular attendance at Board meetings shall be expected of each director and shall be considered a minimum requirement for faithful discharge of a director's duties. If any director is absent, without reasonable explanation, for three consecutive regular meetings, or more than one-third of the regular meetings of the Board held in any calendar year, notice to that effect may be directed to the Court with the request and recommendation that the director be removed from office and that a successor be appointed in accordance with the procedures set forth in 2.3, above.

2.5 REGULAR MEETINGS. A regular meeting of the Board shall be held without other notice than this Bylaw on the second Monday of each month at 1: 00 p.m. The Board of Directors may provide, by resolution or by amendment to these Bylaw,s the time and place for the holding of additional regular meetings of the Board without other notice than such resolution or Bylaw amendment. Notice of a regular meeting shall be posted in a designated public place within the boundaries of the District no less than 24 hours prior to the holding of the regular meeting. The public place or places for posting such notice shall be designated annually at the Board's first regular meeting of each calendar year. The posting shall include specific agenda information where possible.

2.6 SPECIAL MEETINGS. Special meetings of the Board may be called by or at the request of the President or any three directors. The directors calling a special meeting of the Board may fix any place within the boundaries of the District as the place for holding the special meeting called by them.

2.7 NOTICE OF SPECIAL MEETINGS. Public notice of special meetings shall be posted in the place(s) designated in 2.5, above, at least twenty-four hours prior thereto. Notice shall be provided to the directors personally, or mailed to or sent via electronic/digital means (i.e. email) to each director at his or her mailing or electronic addresses as shown by the records of the District. If mailed, such notice shall be deemed to be delivered when deposited in the United States Mail so addressed, with postage thereon prepaid. Any director may waive notice of a special meeting shall constitute a waiver of notice of such meeting, except where a director attends a special meeting for the express purpose of objecting to the transaction of any business conducted therein because the special meeting is not lawfully called or convened. The purpose of any special meeting of the Board shall be specified in the notice of such meeting.

2.8 QUORUM. A majority of the members of the Board as constituted at any given time shall constitute a quorum for the transaction of business at any meeting of the Board, but if less than such majority is present at the meeting, a majority of the directors present may adjourn the meeting from time to time without further notice.

2.9 MANNER OF ACTING. The act of the majority of the directors present at a meeting at which a guorum is present shall be the act of the Board, except as provided in 10.1, below.

2.10 MEETING PARTICIPATION BY TELEPHONE. A director may participate at a meeting by telephone or other electronic means if the director notifies the Secretary of his or her need to so attend at least one business day prior to the meeting. Upon such notification, the Secretary shall allow the director to so participate if the District is capable of providing the electronic means for the director to actively participate in the meeting. The director's participation must be, at a minimum, audible both to the public and to the technology recording the meeting. All matters on which the Board votes during such meeting must be done via role call vote so that there is no question as to how the director participating by electronic means cast his or her vote.

2.11 COMPENSATION AND REIMBURSEMENT. Each director shall receive as compensation for his or her service such sum as shall be ordered by the Court, not in excess of the amount authorized by the Act. Each director shall also be reimbursed by the District for any and all necessary traveling expenses actually expended while engaged in the performance of his or her duties.

2.12 PRESUMPTION OF ASSENT. A director who is present at any meeting of the Board at which action on any District matter is taken shall be presumed to have assented to the action taken unless his or her dissent shall be entered in the minutes of the meeting or unless he or she shall file his or her written dissent to such action with the person acting as the secretary of the meeting before the adjournment thereof. Such rights to dissent shall not apply to a director who voted in favor of such action.

2.13 COMMITTEES. The Board, by resolution adopted by a majority of the directors as constituted at that time, may constitute a committee or more than one committee, each consisting of two or more directors and any other such individuals as deemed by the Board to be necessary, which committee shall have and may exercise such authority of the Board as may be set forth in said resolution. No such delegation of authority shall operate to relieve the Board or any directors from any responsibility imposed by law.

ARTICLE III

Officers and Agents

3.1 GENERAL. The officers of the District shall be a President, who shall also serve as Chairman of the Board, one or more Vice-Presidents, a Secretary, an Assistant Secretary, a Treasurer, and an Assistant Treasurer. The Board may appoint such other officers, assistant officers, committees and agents, assistant secretaries and assistant treasurers, as it may consider necessary, who shall be chosen in such manner and hold their offices for such terms and have such authority and duties as from time to time may be determined by the Board. In all cases where the duties of any officer, agent or employee are not prescribed by the Bylaws or by the Board, such officer, agent or employee shall follow the orders and instructions of the President.

3.2 ELECTION AND TERM OF OFFICE. The officers of the District shall be elected by the Board annually at the first meeting of the calendar year. Each officer shall hold office until the first of the following to occur: until his or her successor shall have been duly elected and shall have qualified; or until his or her death; or until s/he shall resign; or until s/he shall have been removed in the manner hereinafter provided.

3.3 **REMOVAL.** Any officer or agent may be removed by the Board whenever, in its judgment, the best interests of the District will be served thereby, but such removal shall be without prejudice to the contract rights, if any, of the person so removed. Election or appointment of an officer or agent shall not in itself create contract rights.

3.4 VACANCIES. A vacancy in any office of the Board, however occurring, may be filled by the Board of Directors for the unexpired portion of the term.

3.5 **PRESIDENT.** The President shall be the chief executive officer of the District and, subject to the direction and supervision of the Board, shall have general control of its affairs and business and general supervision of its officers, agents and the Executive Director. The President shall be a member of the Board.

3.6 VICE PRESIDENTS. The Vice President or Vice Presidents shall assist the President and shall perform such duties as may be assigned to them by the President or by the Board. In the absence of the President, the Vice President designated by the Board or (if there be no such designation) designated in writing by the President shall have the powers and shall perform the duties of the President. If no such designation shall be made, all Vice Presidents may exercise such powers and perform such duties. Each of the Vice Presidents shall be members of the Board.

3.7 SECRETARY. The Secretary shall be responsible for all duties specified in the Act and such other duties as may be assigned by the President or by the Board. In addition, the Secretary shall be custodian of the District's records and of the seal of the District and affix the seal to all documents when authorized by these Bylaws, by the Act or by the Board. The Secretary shall, in general, be responsible for all duties incident to the office of the Secretary and such other duties as may be assigned from time to time by the Board. The Assistant Secretary shall perform the duties of Secretary in the absence of the Secretary. The Secretary and the Assistant Secretary may or may not be members of the Board.

3.8 TREASURER. The Treasurer shall be the principal financial officer of the District and shall be responsible for the care and custody of all funds, securities, evidences of indebtedness and other personal property of the District in accordance with the instructions of the Board. The Treasurer shall be responsible for all other duties incident to the office of the Treasurer and, upon request of the Board, shall make such reports to it as may be required at any time. The Assistant Treasurer shall perform the duties of the Treasurer in the absence of the Treasurer. The Treasurer and the Assistant Treasurer may or may not be members of the Board.

3.9 SURETY BONDS. The Secretary and Treasurer, and such other agents or employees of the District as the Court and the Board may direct, shall furnish corporate surety bonds, at the expense of the District, in amount and form fixed and approved by the Court and the Board conditioned upon the faithful performance of their respective duties.

3.10 EXECUTIVE DIRECTOR. The Board shall have the authority to employ an executive director upon such terms and conditions and with such salary as the Board of Directors may determine from time to time. The executive director shall work under the direction of the President and the Board and with the agents of the District in carrying out the activities and functions of the District and shall be responsible for the day-to-day administration of the District's business and affairs, and for the supervision of all District employees, including, but not limited to, ensuring that the minutes of the Board and any constituted committees be recorded and kept and that all notices are given in accordance with these Bylaws or as required by law.

3.11 NEGOTIABLE INSTRUMENTS, DEEDS AND CONTRACTS. All checks, drafts, notes, bonds, bills of exchange, and orders for the payment of money of the District; all deeds, mortgages, and other written contracts and agreements to which the District shall be a party; and all assignments or endorsements of securities owned or issued by the District shall, unless otherwise directed by the Board or unless otherwise required by law, be signed by the President or by any two of the following officers who are different persons: Vice President, Secretary (or Assistant Secretary), or Treasurer (or Assistant Treasurer). The Board may by resolution, however, authorize any one of such officers to sign any of such instruments, for and on behalf of the District, without necessity of countersignature; and may designate officers, employees or agents of the District, other than those named above, who may, in the name of the District, sign such instruments.

ARTICLE IV

Indemnification of Officers and Directors

4.1 INDEMNIFICATION. Each director and officer of this District shall be indemnified by the District against all costs and expenses actually and necessarily incurred by him or her in connection with the defense of any action, suit or proceeding in which s/he may be involved or to which s/he may be made a party by reason of his or her being or having been such director or officer, except in relation to matters as to which s/he shall be finally adjudged in such action, suit or proceeding to be liable for negligence or misconduct in the performance of duty.

ARTICLE V

District Finances

5.1 FISCAL YEAR. The fiscal year of the District shall begin on the first day of January and end on the 31st day of December of each year.

5.2 ANNUAL BUDGET. The Board shall appoint a budget officer who shall prepare and submit to the Board, on or before October 15 of each year, a proposed budget accompanied by a statement of explanation describing any significant features of the proposed budget. The budget shall reflect revenues and expenditures for each fund established by the Board. Upon receipt of such proposed budget, the Board shall cause notice to be published in a newspaper of general circulation in the District stating that a proposed budget has been submitted to the Board, that the proposed budget is available for public inspection at the District offices, that the Board will consider the adoption of the proposed budget at the date, time and place

designated, and that any interested elector may inspect the proposed budget and file or register any objections thereto at any time prior to the final adoption of the budget. On the day set for consideration of the proposed budget, the Board shall review the proposed budget and may revise, alter, increase or decrease the items as it deems necessary. The Board shall then formally adopt the budget setting forth the revenues and expenditures for the ensuing fiscal year. Within 30 days of adoption of the budget, the Board shall cause a certified copy of such budget to be filed with the Division of Local Government in the Department of Local Affairs. At a meeting held no later than December 31 each year, the Board shall enact a resolution making appropriations for the ensuing fiscal year. The amounts appropriated shall not exceed the amounts established in the adopted budget.

5.3 CERTIFICATION OF MILL LEVY. On or before December 15 of each year, the Board shall certify to the Board of County Commissioners of each county represented within the District, the mill levy or levies required to raise revenues as set forth in the annual budget and as provided and authorized by statute.

5.4 INVESTMENT OF FUNDS OF THE DISTRICT. All funds of the District not required for current operations shall be invested, until needed, in accordance with the provision of Section 24-75-601 C.R.S. et seq., as it presently exists or as it may hereafter be amended.

5.5 ANNUAL AUDIT. The Board shall cause to be made an annual audit of the financial affairs and transactions of all funds and activities of the District for each fiscal year. The audit shall be made as of the end of the fiscal year and shall be conducted in accordance with generally accepted auditing standards by an independent certified public accountant, registered accountant, or partnership of certified public accountants or registered accountants, licensed to practice in the State of Colorado, but in no event shall any of the above individuals or firms audit the records, books or accounts which they have maintained. A copy of the annual audit shall be maintained in the District office as a public record for public inspection at all reasonable times. The District shall forward a copy of the annual audit to the State Auditor as provided by law.

ARTICLE VI

Miscellaneous

6.1 PUBLIC MEETINGS. All meetings of the Board shall be public meetings and open to the public at all times. The Board may convene an executive session at a regular or special meeting upon the announcement by the Board to the public of the topic for discussion therein, including the specific citation to the provision of Section 24-6-402(3), C.R.S., authorizing the Board to meet in an executive session, the identification of the particular matter to be discussed in as much detail as possible without compromising the purpose for which the executive session is authorized and the affirmative vote of two-thirds of the

quorum present of the Board. The Board may convene an executive session for the sole purpose of considering any of the following matters:

a. The purchase, acquisition, lease, transfer, or sale of any real, personal, or other property interest; except that no executive session shall be held for the purpose of concealing the fact that a director has a personal interest in such purchase, acquisition, lease, transfer, or sale;

b. Conferences with an attorney representing the District for the purposes of receiving legal advice on specific legal questions. Mere presence or participation of an attorney at an executive session of the Board is not sufficient to satisfy the statutory constraints on executive session;

c. Matters required to be kept confidential by federal or state law or rules and regulations;

d. Specialized details of security arrangements or investigations;.

e. Determining positions relative to matters that may be subject to negotiations with employees; developing strategy for and receiving reports on the progress of such negotiations; and instructing negotiators;

f. Personnel matters except if the employee who is the subject of the session has requested an open meeting, or if the personnel matter involves more than one employee, and all of the involved employees have requested an open meeting; and

g. Consideration of any documents protected by the mandatory nondisclosure provisions of Part 2, Article 72 of Title 24, Colorado Revised Statutes, commonly known as the "Open Records Act."

ATRTICLE VII

Voting

7.1 VOTING. The manner of voting on matters before the Board of Directors shall be by voice vote unless otherwise requested by motion by a member of the Board of Directors.

ARTICLE VIII

Motions and Resolutions

8.1 MOTIONS AND RESOLUTIONS. The Board may act on all business and issues coming before it either by motion or by resolution. Motions and resolutions may be continuing in nature and effect if expressly stated in said motion or resolution. Resolutions shall set forth in reasonable detail any findings by the Board necessary for the adoption of the particular resolution. The following actions shall be performed by resolution:

a. Adoption of the budget;

b. Establishment of mill levy or levies, special assessments, and other sources of revenue as set forth by statute;

c. Appropriation of expenditures for the budget year;

d. Declaration of vacancies on the Board;

e. The acquisition, purchase, sale, lease or creation of encumbrance of any real property;

f. Amendments to Bylaws;

g. Any action required by statute to be in the form of a resolution; and,

h. Any action requested to be in the form of a resolution by the Chairman of the Board.

Resolutions shall be consecutively numbered each year and shall be in written form provided, however, that an oral resolution may be adopted and shall be reduced to writing for review and ratification by the Board at its next regular meeting.

All other Board action shall be by motion, which shall not require findings upon which the motion is based.

ARTICLE IX

Parliamentary Authority

9.1 Roberts Rules of Order, as revised from time to time, shall govern the conduct of business in all cases in which they are applicable and not in conflict with these Bylaws or the applicable state law

ARTICLE X

Amendments

10.1 The Board shall have the power to make, amend and repeal the Bylaws at any regular meeting of the Board or at any special meeting called for that purpose; if at least 14 days' written notice is given of the intention to amend, repeal or to adopt new Bylaws at such regular or special meeting. Any such amendment, repeal or adoption shall require the affirmative vote of two-thirds of the members of the entire Board.

APPROVED AND ADOPTED by resolution of the Board of Directors this <u>15</u> day of <u>shifted</u>, r 2010.

refember President

ATTEST: Secretary

THE ST. VRAIN AND LEFT HAND WATER CONSERVANCY DISTRICT

BYLAWS CERTIFICATE

The undersigned certifies that he or she is the Secretary of THE ST. VRAIN AND LEFT HAND WATER CONSERVANCY DISTRICT, and, that, as such, is authorized to execute this Certificate on behalf of said District, and further certifies that attached hereto is a complete and correct copy of the presently effective Bylaws of said District.

DATED:___ ptember

Secretary

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Bank Balance

SSETS Current Assets Checking/Savings 1100 · Enterprise Fund 1101 · Enterprise Fund Chk-1st Bank 1102 · Enterprise Fund MM 1st Bank	Dec 31, 13
ASSETS	
Current Assets	
Checking/Savings	
1100 · Enterprise Fund	
1101 · Enterprise Fund Chk-1st Bank	13,487.22
1102 · Enterprise Fund MM 1st Bank	177,949.71
Total 1100 · Enterprise Fund	191,436.93
Total Checking/Savings	191,436.93
Total Current Assets	191,436.93

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Revenue December 2013

	Dec 13 💌	Jan - Dec 13 💌
Income		
4100 · Enterprise Fund Revenue		
4105 · Augmentation Membership Fees	0.00	23,877.26
4115 · Interest Income - Enterprise	24.35	312.91
4120 · District Water Rental CBT	0.00	9,130.00
Total 4100 · Enterprise Fund Revenue	24.35	33,320.17
Total Income	24.35	33,320.17

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Expenses

December 2013

	TOTAL
Expense	
5000 · Enterprise Fund Expense	
5100 · Administration	
5105 · Salaries and Wages	3,720.15
5110 · Temporary Employees	-159.30
5115 · Workmans Comp	61.05
5120 · Payroll Expense	371.56
5125 · Health Insurance	682.28
5130 · Employee Retirement	111.60
5135 • Training and Conferences	39.00
5145 · Travel	132.69
Total 5100 · Administration	4,959.03
5300 · Operational	
5345 · Rent	362.60
5350 · Telephone and Internet	91.30
5355 · Office Supplies	146.69
Total 5300 · Operational	600.59
5400 · Outside Services	
5410 · Legal Fees	2,698.45
5420 · FEMA - Lake No.4 Repairs	3,597.41
Total 5400 · Outside Services	6,295.86
Total 5000 · Enterprise Fund Expense	11,855.48

St. Vrain & Left Hand Water Conservancy District Enterprise Fund

Budget Report

,	Jan - Dec 13 💌	Budget 💌	\$ Over Budget 💌	% of Budget ▼
Income				
4100 · Enterprise Fund Revenue				
4105 · Augmentation Membership Fees	23,877.26	27,856.00	-3,978.74	85.72%
4115 · Interest Income - Enterprise	312.91	180.00	132.91	173.84%
4120 · District Water Rental CBT	9,130.00			
4130 · Lake No. 4	0.00	720.00	-720.00	0.0%
4140 · Longmont Water Rental CBT	0.00	2,500.00	-2,500.00	0.0%
4145 · Miscellaneous Water Rental	0.00	2,805.00	-2,805.00	0.0%
4155 · Transfer from General Fund	0.00	3,612.00	-3,612.00	0.0%
Total 4100 · Enterprise Fund Revenue	33,320.17	37,673.00	-4,352.83	88.45%
Total Income	33,320.17	37,673.00	-4,352.83	88.45%
Gross Profit	33,320.17	37,673.00	-4,352.83	88.45%
Expense				
5000 · Enterprise Fund Expense				
5100 · Administration				
5105 · Salaries and Wages	19,176.87	20,298.00	-1,121.13	94.48%
5110 · Temporary Employees	1,569.44	500.00	1,069.44	313.89%
5115 · Workmans Comp	173.40	126.00	47.40	137.62%
5120 · Payroll Expense	1,694.58	1,796.00	-101.42	94.35%
5125 · Health Insurance	3,567.55	3,108.00	459.55	114.79%
5130 · Employee Retirement	574.76	609.00	-34.24	94.38%
5135 · Training and Conferences	545.88	510.00	35.88	107.04%
5140 · Liability Insurance	586.20	498.00	88.20	117.71%
5145 · Travel	526.64	825.00	-298.36	63.84%
5150 · Miscellaneous	0.00	150.00	-150.00	0.0%
Total 5100 · Administration	28,415.32	28,420.00	-4.68	99.98%
5300 · Operational				
5305 · Coneland I ake	0.00	2 200 00	-2 200 00	0.0%
5310 · Colorado Big T Assessments	2.807.56	2,610.00	197.56	107.57%
5315 · Lake No 4	4,059,05	16 500 00	-12 440 95	24.6%
5325 · Water Rental	0.00	1,500.00	-1.500.00	0.0%
5340 · Special Projects	0.00	1,500,00	-1 500.00	0.0%
5345 · Rent	2175.60	2,176,00	-0.40	99.98%
5350 · Telenhone and Internet	504.03	495.00	9.03	101.82%
5355 · Office Supplies	965.97	750.00	215.97	128.8%
5360 · Native Water Assessments	315415	4 000 00	-845.85	78.85%
Total 5300 · Operational	13,666.36	31,731.00	-18,064.64	43.07%
5400 · Outside Services				
5405 · Consulting Engineering	4,780.00	20,000.00	-15,220.00	23.9%
5410 · Legal Fees	6,898.41	5,200.00	1,698.41	132.66%
5415 · Miscellaneous Consulting	8,788.05	10,000.00	-1,211.95	87.88%
5420 · FEMA - Lake No.4 Repairs	4,637.91			
Total 5400 · Outside Services	25,104.37	35,200.00	-10,095.63	71.32%
Total 5000 · Enterprise Fund Expense	67,186.05	95,351.00	-28,164.95	70.46%

January 7, 2014

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Bank Balance

	Dec 31, 12
ASSETS	
Current Assets	
Checking/Savings	
1100 · Enterprise Fund	
1101 · Enterprise Fund Chk-1st Bank	4,500.04
1102 · Enterprise Fund MM 1st Bank	225,337.91
Total 1100 · Enterprise Fund	229,837.95
Total Checking/Savings	229,837.95

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Revenue

December 2012

ú

	Dec 12	Jan - Dec 12
Income		
4100 · Enterprise Fund Revenue		
4105 · Augmentation Membership Fees	0.00	21,310.48
4115 · Interest Income - Enterprise	29.49	243.81
4120 · District Water Rental CBT	0.00	8,961.06
4140 · Longmont Water Rental CBT	0.00	5,625.00
4155 · Transfer from General Fund	0.00	3,169.70
Total 4100 · Enterprise Fund Revenue	29.49	39,310.05
Total Income	29.49	39,310.05

St. Vrain and Left Hand Water Conservancy District - Board Meeting Packet - January 14, 2012

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Expenses December

2012

	TOTAL
Expense	
5000 · Enterprise Fund Expense	
5100 · Administration	
5105 · Salaries and Wages	6,990.66
5120 · Payroll Expense	326.73
5125 - Health Insurance	500.52
5130 · Employee Retirement	113.30
5135 · Training and Conferences	24.70
5145 · Travel	41.69
Total 5100 · Administration	7,997.60
5300 · Operational	
5345 · Rent	362.60
5350 · Telephone and Internet	79.06
5355 - Office Supplies	557.59
Total 5300 - Operational	999.25
5400 · Outside Services	
5405 · Consulting Engineering	1,356.25
5410 · Legal Fees	1,649.38
Total 5400 · Outside Services	3,005.63
Total 5000 · Enterprise Fund Expense	12,002.48
otal Expense	12,002.48

St. Vrain and Left Hand Water Conservancy District - Board Meeting Packet - January 14, 2012

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St. Vrain & Left Hand Water Conservancy District Enterprise Fund ^{Sudget} eport

	Jan - Dec 12	Budget	\$ Over Budget	% of Budget
Expense				
5000 · Enterprise Fund Expense				
5100 · Administration				
5105 · Salaries and Wages	19,408.82	19,634.00	-225.18	98.85%
5110 · Temporary Employees	0.00	500.00	-500.00	0.00%
5115 · Workmans Comp	60.75	60.00	0.75	101.25%
5120 · Payroll Expense	1,843.15	1,906.00	-62.85	96.70%
5125 · Health Insurance	2,893.86	3,382.00	-488.14	85.57%
5130 · Employee Retirement	582.36	589.00	-6.64	98.87%
5135 · Training and Conferences	278.52	510.00	-231,48	54.61%
5140 · Liability Insurance	569.25	554.00	15.25	102.75%
5145 · Travel	402.93	825.00	-422.07	48.84%
5150 · Miscellaneous	0.00	150.00	-150.00	0.00%
Total 5100 · Administration	26,039.64	28,110.00	-2,070.36	92.64%
5300 · Operational				
5305 · Copeland Lake	0.00	300.00	-300.00	0.00%
5310 · Colorado Big T Assessments	2,610.00	2 600 00	10.00	100.00%
5315 - Lake No.4	0.00	2,100,00	-2 100 00	0.00%
5325 · Water Rental	1,500.00	0.00	1 500.00	100.00%
5335 · Federal EPA 319 Grant	0.00	1.828.00	-1 828 00	0.00%
5345 · Rent	2,175.60	2,176.00	-0.40	0.00%
5350 · Telephone and Internet	462.19	450.00	12 19	102 71%
5355 · Office Supplies	1,306.48	1,125,00	181 48	102.71%
5360 · Native Water Assessments	2,531.33	4.000.00	-1 468 67	62 200/
Total 5300 · Operational	10,585.60	14,579.00	-3,993.40	72.61%
5400 · Outside Services				
5405 · Consulting Engineering	12.800.01	16 257 00	-3 456 00	70 740/
5410 · Legal Fees	7,995,24	5 000 00	2 995 24	150.04%
5415 · Miscellaneous Consulting	0.00	10,500.00	2,555.24	159.91%
Total 5400 · Outside Services	20,795.25	31,757.00	-10,961.75	65.48%
Total 5000 · Enterprise Fund Expense	57,420.49	74,446.00	-17,025.51	77.13%
al Expense	57,420,49	74.446.00	-17 025 51	77 199/

St. Vrain and Left Hand Water Conservancy District - Board Meeting Packet - January 14, 2012

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St. Vrain & Left Hand Water Conservancy District Enterprise Fund Bank Balance

	10 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M		
	Dec 31, 11		
ASSETS			
Current Assets			
Checking/Savings			
1100 · Enterprise Fund			
1110 · Enterprise Fund Money MktBOW	190,852.71		
1115 · Enterprise Savings-Colotrust	57,918.80		
Total 1100 · Enterprise Fund	248,771.51		
Total Checking/Savings	248,771.51		

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Revenue

January 4, 2012

January 4, 2012

December 2011

	Dec 11	Jan - Dec 11		
Income				
4100 · Enterprise Fund Revenue				
4105 · Augmentation Membership Fees	158.30	17,674.45		
4115 · Interest Income - Enterprise	10.34	174.35		
4120 · District Water Rental CBT	0.00	35.18		
4130 · Lake 4 Water Lease	0.00	4,065.00		
4140 · Longmont Water Rental CBT	0.00	75,881.00		
4145 · Miscellaneous Water Rental	0.00	1,570.00		
4100 · Enterprise Fund Revenue - Other	0.00	467.54		
Total 4100 · Enterprise Fund Revenue	168.64	99,867.52		
Total Income	168.64	99,867.52		

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Expenses December

2011

01/04/2012

	TOTAL
Expense	
5000 · Enterprise Fund Expense	
5300 · Operational	
5315 · Lake No.4	-212.75
5325 · Water Rental	750.00
Total 5300 · Operational	537.25
5400 · Outside Services	
5405 · Consulting Engineering	990.00
5410 · Legal Fees	1,062.00
Total 5400 · Outside Services	2,052.00
Total 5000 · Enterprise Fund Expense	2,589.25
Total Expense	2,589.25

St. Vrain and Left Hand Water Conservancy District - Board Meeting Packet -January 9, 2012

St. Vrain & Left Hand Water Conservancy District Enterprise Fund Budget ort

January 4, 2012

	Jan - Dec 11	Budget	\$ Over Budget	% of Budget
Expense				
5000 · Enterprise Fund Expense				
5100 · Administration				
5150 · Miscellaneous	36.00	144.00	-108.00	25.00%
Total 5100 · Administration	36.00	144.00	-108.00	25.00%
5300 · Operational				
5305 · Copeland Lake	542.21	10,000.00	-9.457.79	5 42%
5310 · Colorado Big T Assessments	2,563.02	2,600.00	-36.98	98 58%
5315 · Lake No.4	730.20	1,000.00	-269.80	73.02%
5325 · Water Rental	69,756.00	78,000.00	-8.244.00	89.43%
5330 · Augmentation Plan	150.00	1,500.00	-1.350.00	10.00%
5335 · Federal EPA 319 Grant	0.00	8,460.00	-8.460.00	0.00%
5360 · Native Water Assessments	3,072.83	2,500.00	572.83	122 91%
Total 5300 · Operational	76,814.26	104,060.00	-27,245.74	73.82%
5400 · Outside Services				
5405 · Consulting Engineering	9,719.00	9,000.00	719.00	107 99%
5410 · Legal Fees	7,102.14	7,500.00	-397.86	94 70%
5415 · Miscellaneous Consulting	0.00	1,000.00	-1.000.00	0.00%
Total 5400 · Outside Services	16,821.14	17,500.00	-678.86	96.12%
Total 5000 · Enterprise Fund Expense	93,671.40	121,704.00	-28,032.60	76.97%
Total Expense	93,671.40	121,704.00	-28,032.60	76.97%




DRAFT

ENGINEERS ESTIMATE OF CONSTRUCTION COSTS

LAKE #4 EMBANKMENT REPAIR - Repair to Original Construction & Capacity

Item	Description	Quantity	Unit	Cost	I	Extension
1	Mobilization @ 5%	1	LS	\$ 60,000	\$	60,000
2	Dewatering/Water Handling	1	LS	\$ 50,000	\$	50,000
3	Site Preparation / Foundation Preparation	1	LS	\$ 200,000	\$	200,000
4	Sediment Removal	87,000	СҮ	\$5	\$	435,000
5	Embankment Fill (repair two breachs and slopes)	92,000	СҮ	\$5	\$	460,000
6	Seeding, Mulching, Fencing	1	LS	\$ 50,000	\$	50,000
7				\$-	\$	-
8				\$-	\$	-
9				\$-	\$	-
10				\$-	\$	-
11				\$-	\$	-
12				\$-	\$	-
13				\$-	\$	-
14				\$-	\$	-
15				\$-	\$	-
16				\$-	\$	-
17				\$-	\$	-
18				\$-	\$	-
19				\$ -	\$	-
		Construc	tion Iter	ns Subtotal		\$1,255,000
		Design Construction	Enginee Observa	ering @ 10% ation @ 10%		\$126,000 \$126,000
	Constructio	n Items & En	gineerin	g Subtotal		\$1,507,000
			⊂ Conting∈	ency @ 25%		\$377,000

11/06/13

Notes: This estimate does not include federal, state or local permitting or ROW/access acquisitions

\$1,884,000

TOTAL

Substitute Form State of Colorado B-2007		Identificat	cation Number and Certification			Give form to the requester. Do no send to the IRS	
eri SH Business n	Vrair	rom above	t Hand Water C	onservai	ney E	District	
e suojo L Indiv	ropriate box: idual/ Sole Propr	ictor 🔲 Corporation	Partnership 🛛 Other	E	xempt from ba	uckup withholding	
The Address (n	umber, street, and	apt or spite no.)	- •L.P.	n.S.C. Van JD 12	strict		
E g City, state,	9595 Nelson St. Ste 203						
5 L01	19mon	1. 00 805	01		-		
B List Accou	int number(s) here	e (optional)		Phone Numb	er: 3 - 77	2-4/1/20	
Part I Taxp	ayer Identific	ation Number (TIN))	1.005	2 / 0	0 1000	
for a resident alier other entities, it is y a TIN on page 3. Note: If the accoun number to enter.	e appropriate of n, sole propriet our employer ide nt is in more that	or, or disregarded entit entification number (EIN) an one name, see the c	your social security number (SSN) y, see the Part I instructions on p . If you do not have a number, see hart on page 3 for guidelines on t) However, page 3. For How to get whose	Employer i	Security number	
Part II Certi	fication				0710	113936	
cert	incation .						
Under penalties o	t perjury, I cer	tify that:					
1. The number s	hown on this fo	orm is my correct taxp	ayer identification number (or I	am waiting for a	a number to t	be issued to me), and	
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	DEPOSITOR STATE A	GENCY INFORMATION	State Controller
STATE AGENCY	RETURN THIS FORM TO: Colorado Water Conser	rvation Board	Etticient & Etteritive Financial Managem
	1580 Logan St., Ste 6	600	
TATEING ADDRESS	Denver, CO 80203		
AGENCY CONTACT	Anna Mauss		303-866-3441, Ext 3224
Scher contact		Phon	
SECTION II -	PAYEE (RECEIVOR) IN	NFORMATION	
VENDOR NAME St.	Vrain and Left Hand V	Vater Conservancy District	
	D/B/A		
	MAILING ADDRES 9595 N	lelson Rd., Ste 203	
	CITY STATE 710 Longmo	ont, CO 80501	
BHONE 303-77	2-4060	EMAN office@svlhw	cd.org
Sean	Cronin	CMAIL	
CONTACT OCUT	U. U. M.		
BRANCH LOCATION	(CITY & STATE) 1270 S.	Hover St., Longmont, CO 80	501
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RINTED NAME	A (CITY & STATE) 1270 S. 1 MBER 1 0 7 0 0 5 0 -121-2553 URITY NUMBER ON BANK ACC DENTIFICATION ON BANK ACC DENTIFICATION ON BANK ACC DIT TO ACCOUNT AUTHORIZATION FOR CHANGE We the authority to execute the inge or cancel EFT credit entrici- count indicated above. In the full means to recover the dep- tional Automated Clearing Hou is to remain in full force until the ch time as to afford a reasonan- state payable system. Ban Croning	Hover St., Longmont, CO 80 4 7 CHECKING ACCOUNT COUNT COUNT COUNT <u>4 6 1 13 2 5 0</u> COUNT <u>8 4 6 1 13 2 5 0 0 COUNT <u>8 6 6 1 13 10 100 100000</u></u>	SAVINGS ACCOUNT SAVINGS ACCOUNT SAVING

INTERGOVERNMENTAL AGREEMENT BETWEEN BOULDER COUNTY AND THE ST. VRAIN AND LEFT HAND WATER CONSEVANCY DISTRICT RELATED TO REPAIRS OF WESTERN MOBILE LAKE NO. 4

This Intergovernmental Agreement (the "Agreement") is entered into as of the $\frac{12}{2}$ day of $\frac{12}{2}$, 2014, by the County of Boulder, a body corporate and politic of the State of Colorado ("Boulder County" or "County"), and the St. Vrain and Left Hand Water Conservancy District (the "District") (each a "Party" or, collectively, the "Parties").

RECITALS

- A. The Colorado Constitution Article XIV, Section 18(2)(a), and C.R.S. §§ 29-1-201, et seq., provide that political subdivisions of the State may contract with one another to provide any function, service, or facility lawfully authorized to each of the cooperating units.
- B. The Parties each own a 50% undivided interest in Western Mobile Lake No. 4 ("Lake 4), which has a conditional decree for the diversion and storage of water from St. Vrain Creek.
- C. On or around September 11, 2013 and continuing for several days thereafter, Boulder County experienced historic amounts of rainfall causing extreme flooding (the "Flood") that breached Lake 4 and rendered it unable to impound water. It is also unknown whether the outlet works for Lake 4 have been damaged by the flood and whether the outlet works need to be repaired or replaced. The damage to Lake 4 will require reconstruction that is far beyond ordinary maintenance.
- D. The Parties are committed to working cooperatively to repair Lake 4 and its outlet works so that Lake 4 can once again safely impound and release water to the full extent of its decree (the "Project").
- E. The purpose of this Agreement is to set forth the understanding of the Parties regarding their respective responsibilities for cooperating regarding financial contributions and repairs to Lake 4.

AGREEMENT

In consideration of the mutual covenants and promises set forth herein, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows.

- 1. The County and the District share the common interest in, and responsibility for, repairing Lake 4 to safely impound and release water pursuant to the decree for Lake 4 and shall cooperate in good faith with each other to accomplish this goal.
- 2. In order to repair and restore Lake 4 as efficiently as possible, the Parties have agreed the County shall provide mutual aid to the District by performing or contracting for all work contemplated by this Agreement. The County shall assume primary responsibility for

releasing requests for proposals ("RFPs") for analysis of alteruatives, design of the Project, and construction of the Project. The District shall be afforded the opportunity to review and approve the RFPs before they are released, review the RFP responses when they are submitted, and participate in the interviews and selection of potential contractors.

- 3. The County shall also consult with, and seek the approval of, the Office of the State Engineer regarding the design of the Project.
- 4. The Parties believe they are eligible for reunbursement from the Federal Emergency Management Agency ("FEMA") and/or the State of Colorado ("State") for a portion of their respective repair and restoration costs.
- 5. Once a contractor is selected for either design or construction of the Project, the County shall enter into a contract with the contractor. Such contract shall be approved by the District prior to its execution. Once executed, the County shall notify the District of any proposed modification or change to the contract that would have the effect of increasing the cost thereunder by more than 5%. The County shall only accept any such proposed modification or change with approval from the District. The County shall be responsible for initial payment to the contract of all work related to the Project when invoiced by the contractor. The County shall invoice the District for half of the cost of each invoice it receives from a contractor. As long as the invoices are within the agreed upon cost limits, the District will pay the County within 30 days of receipt of each invoice. If there is any discrepancy between the amount invoiced by the contractor and the amount anticipated by the contract, the Parties agree to use their collective good faith to work collaboratively toward resolving any such cost differential.
- 6. The County shall submit Project costs to the State and FEMA on project worksheets and shall employ financial accounting and reporting procedures designed to maximize the eligibility for reimbursement by the State and FEMA. The District shall be provided the opportunity to review and approve project worksheets before they are submitted to the County's disaster consultant and shall receive copies of all final project worksheets submitted to the State and/or FEMA.
- 7. If and when the County receives any reimbursement from the State and/or FEMA related to the Project, the County shall pay the District half of any reimbursement within 30 days of the County's receipt of the reimbursement.
- 8. The Parties anticipate that the Project shall be completed within 2 years after this IGA's execution and shall exercise best efforts to meet that timeline.
- 9. The Parties will procure and maintain in full force and effect such insurance or selfinsurance that will insure its obligations and liabilities under this Agreement, including workers' compensation, automobile liability and general liability.
- 10. Each Party assumes responsibility for the actions and/or omissions of its agents and its employees in the performance or failure to perform under this Agreement, and further, each Party, to the extent authorized by law, agrees to hold harmless the other for such actions or omissions of its own employees and/or agents. It is agreed that such liability

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for actions and omissions of agents and employees is not intended to increase the amounts set forth in the Colorado Governmental Immunity Act, now existing, or as may be amended. By agreeing to this provision, neither Party waives or intends to waive the limitations on liability which are provided to the Party under the Colorado Governmental Immunity Act §§ 24-10-101 *et seq.*, C.R.S.

- 11. The Parties shall perform all services under this Agreement as independent entities and not as an agent or employee of the other Party. It is mutually agreed and understood that nothing contained in this Agreement is intended, or shall be construed as, in any way establishing the relationship of co-partners or joint ventures between the Parties hereto, or as construing either Party, including its agents and employees, as an agent of the other Party. Each Party shall remain an independent and separate entity. Neither Party shall be supervised by any employee or official of the other Party. Neither Party shall represent that it is an employee or agent of the other Party in any capacity.
- 12. All financial obligations of the Parties under this Agreement are contingent upon appropriation, budgeting, and availability of specific funds to discharge such obligations. Nothing in this Agreement shall be deemed a pledge of the Party's credit, or a payment guarantee by one Party to the other Party. If appropriated funds are not available, both Parties shall be relieved of their obligations hereunder.
- 13. No waiver of any breach or default under this Agreement shall be a waiver of any other or subsequent breach or default.
- 14. Invalidation of any specific provisions of this Agreement shall not affect the validity of any other provision of this Agreement.
- 15. This Agreement shall be governed and construed in accordance with the laws of the State of Colorado. Venue for any action arising under this Agreement shall be in Boulder County, Colorado.
- 16. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, and all of which shall constitute one and the same Agreement. Facsimile and other electronic signatures shall be acceptable to and binding upon all Parties.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement which shall be in full force and effect the day and year first written above.

BOULDER COUNTY Cuito Jonenia Cindy Domenico, Chair 5/29/14 Board of Boulder County Commissioners

Attest:

Clerk to the Board



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ST. VRAIN AND LEFT HAND WATER CONSERVANCY DISTRICT

Denie Rfaue Heene President

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Attest: William Apselluse Secretary

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Applicant Name:	Application Title:
BOULDER (COUNTY)	BOUCO51 - Facility Replacement / Repair (Lake 4)
Period of Performance Start:	Period of Performance End:
	03-14-2015

Subgrant Application - Entire Application

Application Title: BOUCO51 - Facility Replacement / Repair (Lake 4) Application Number: Application Type: Subgrant Application (PW)

	Preparer Information
Prefix	
First Name	MICHAEL
Middle Initial	
Last Name	MERANDA
Title	CEF Estimator
Agency/Organization Name	DHS/FEMA
Address 1	9200 East Mineral Ave
Address 2	
City	Denver
State	CO
Zip	80112
Email	deanna.butterbaugh@state.co.us

Is the application preparer the Point of Contact? No

	Point of Contact Information
Prefix	
First Name	Michelle
Middle Initial	
Last Name	Krezek
Title	Commissioner's Deputy
Agency/Organization	Boulder County
Address 1	1325 Pearl St.
Address 2	
City	Boulder
State	CO
ZIP	80306
Phone	303-441-3561

Fax	
Email	mkrezek@bouldercounty.org
	Alternate Point of Contact Information
	Michael
Middle Initial	Ν
Last Name	Chard
Title	Director of Emergency Management
Agency/Organization	Boulder County
Address 1	1325 Pearl St.
Address 2	
City	Boulder
State	CO
ZIP	80306
Phone	303-441-3653
Fax	
Email	mchard@bouldercounty.org
	Project Description
Disaster Number:	4145
Pre-Application Number:	PA-08-CO-4145-RPA-0008
Applicant ID:	013-99013-00
Applicant Name:	BOULDER (COUNTY)
Subdivision:	
Project Number:	BOUCO51
Standard Project Number/Title:	704 - Recreational Facility
Please Indicate the Project Type:	Neither Alternate nor Improved
Application Title:	BOUCO51 - Facility Replacement / Repair (Lake 4)
Category:	G.RECREATIONAL OR OTHER
Percentage Work Completed?	0.0 %
As of Date:	06-09-2014
Comments	
Attachments	
	Damage Facilities (Part 1 of 2)

Facility Number	Facility Name	Address	County	City	State	ZIP	Site Previously Damaged?	Action
1	Lake 4		Boulder		со		No	
Comments	S							

Attachments				•		
User	Date	Document Type	Description Hard Copy File Reference		File Name	Action
MICHAEL MERANDA	06-11- 2014	Мар	Pre Flood Aerial - Lake 4		Lake 4 Aerial 10-7-12.jpg (93.81 kb)	<u>View</u>
MICHAEL MERANDA	06-11- 2014	Мар	Post Flood Aerial - Lake 4		Lake 4 Aerial 10-6-13.jpg (112.57 kb)	<u>View</u>
MICHAEL MERANDA	06-11- 2014	Мар	Pre Flood Aerial - Lakes 2,3,4		Lakes 2, 3, 4 On 10-7-12.jpg (116.85 kb)	<u>View</u>
MICHAEL MERANDA	06-11- 2014	Мар	Post Flood Aerial - Lakes 2,3,4		Lakes 2,3,4 On 10-6-13.jpg (120.39 kb)	<u>View</u>
MICHAEL MERANDA	06-17- 2014	Мар	Pre-Post Flood Damage Area and Survey Elevation Maps		Pre-Post Flood Damage Areas and Elevation Survey Maps.pdf(2.81 Mb)	<u>View</u>
MICHAEL MERANDA	06-18- 2014	Photos	Typical Sediment Infiltration		Lake 4 Sediment Infiltration & Shoreline Damage.JPG (491.13 kb)	<u>View</u>
MICHAEL MERANDA	06-18- 2014	Photos	Typical Shoreline Washout and Breach Damage		Lake 4 Breach & Shoreline Damage.JPG(842.35 kb)	View
MICHAEL MERANDA	06-20- 2014	Photos	Diversion Structure Damage		Diversion Structure.pdf (341.96 kb)	<u>View</u>
MICHAEL MERANDA	06-20- 2014	Photos	Diversion Structure Damage 2		Diversion Structure 2.pdf (373.33 kb)	<u>View</u>
MICHAEL MERANDA	06-20- 2014	Photos	Instrumentation Damage 1		Instrumentation Photo2a.jpg (3.11 Mb)	<u>View</u>
MICHAEL MERANDA	06-20- 2014	Photos	Instrumentation Damage 2		Instrumentation Photo2b.jpg (3.28 Mb)	<u>View</u>
MICHAEL MERANDA	06-20- 2014	Photos	Instrumentation Damage 3		Instrumentation Photo3.jpg (2.51 Mb)	View
MICHAEL MERANDA	06-23- 2014	Photos	Diversion Structure Top Decking Damage		photo 4.jpg(156.88 kb)	<u>View</u>
MICHAEL MERANDA	06-23- 2014	Мар	Underground Drainage Pipe Location		Instrumentation Location Map 2.jpg(128.81 kb)	View

Facility Name:	Lake 4
Address 1:	
Address 2:	
County:	Boulder
City:	
State:	со
ZIP:	
Was this site previously damaged?	No
Percentage Work Completed?	0.00 %

Location:	South of Ute Hwy (Colorado Hwy 66), approximately 2 miles west of the intersection with U.S. Hwy 36 (approximately in the center of Section 27, Township 3 North, Range 70 West), in unincorporated Boulder County.
Damage Description and Dimensions: $335 \times 48 \times 1 = 16,080 / 27 = 596 \text{ CY}$	 Heavy rains between 9/11 - 9/20/2013 resulted in St. Vrain Creek and tributary overflows, velocity overflow and overland flooding that deep-scoured Lake adjacent grounds, breach of Lake east and west berms, washout of shorelines and slurry/rip rap shoreline protection, large volumes of sediment infiltration into the lake bed, impact damage to and sediment infiltration of a diversion structure, submersion of water measuring and monitoring electrical instrumetation panels and debris infiltration into an underground drainage pipe This PW addresses (12) damage areas in and adjacent to Lake 4 (see prepost flood survey elevation maps) Flood submergsion, impact, and infiltration damage are as follows: Area 1 (berm & shoreline): 305FT x 17.59FT x 24.5FT(4,869CY)clay washed out 260FT x 60FT x 18FT(8,667CY)unclassified fill washed out 260FT x 40FT x 24.5FT(4,869CY)clay washed out 260FT x 40FT x 18FT(8,667CY)unclassified fill washed out 266FT x 40FT x 17F (5/8CY)unclassified fill washed out 236FT x 40FT x 2FT (1,328CY)unclassified fill washed out 236FT x 40FT x 17F (64CY) topsoil washed out 236FT x 40FT x 11FT (612CY) topsoil washed out 236FT x 40FT x 11FT (612CY) topsoil washed out 236FT x 40FT x 11FT (612CY) topsoil washed out 23FT x 43FT x 20FT (5,335CY)unclassified fill washed out 23FT x 43FT x 11FT (102CY) topsoil washed out 22FT x 14FT x 7.5FT (9CY) rip rap bedding washed out 22FT x 14FT x 7.5FT (102CY) topsoil washed out 22FT x 14FT x 7.5FT (102CY) topsoil washed out 22FT x 14FT x 7.5FT (102CY) topsoil washed out 22FT x 14FT x 7.5FT (102CY) topsoil washed out 22FT x 14FT x 7.5FT (102CY) topsoil washed out 23FT x 44FT x 22FT (1.791CY) clay washed out 24FT x 14FT x 1.5FT (102CY) topsoil washed out 24FT x 14FT x 1.5FT (102CY) top
	Area 10:

.

	665FT x 1,006FT x 10FT(247,774CY)of sediments filled bed
	Area 11: 365FT x 450FT x 12FT (73,000CY) of sediments filled bed
	Area 12: 226FT x 747FT x 12FT (75,032CY) of sediments filled bed
	Diversion Structure (40.19841, -105.22109): (4) 3in x 12in x 3ft wood deck boards debris impacted and cracked atop walkway bridge deck Sediment and debris infiltrated diversion structure
	 (3) Instrumentation panels submerged each with: 40.198, -105.221, 40.195, -105.217, 40.196,-105.208 (1) Monitor-1 datalogger (1) NEMA enclosure (1) Solar regulator (1) Solar regulator (1) 7 AH battery (1) Sutron Stage discharge recorder (1) pressure transducer
	(1) 2,500LF x 2FT diameter underground concrete water discharge pipe infiltrated with sediment debris
	WORK TO BE COMPLETED Area 1 (berm & shoreline): Replace 305FT x 17.59FT x 24.5FT(4,869CY) clay Replace 260FT x 50FT x 18FT(8,667CY) unclassified fill
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Scope of Work:	Area 4 (embankment & shoreline): Replace 335FT x 43FT x 20FT (5,335CY) unclassified fill Replace 335FT x 48FT x 1FT (612CY) topsoil Remove, dispose of (1)CY of vegetative debris Replace 22FT x 14FT x .75FT (9CY) rip rap bedding Replace 22FT x 14FT x 1.5FT (17CY)grouted rip rap
	Area 6 (berm & shoreline): Replace 382FT x 51FT x 11FT (3,969CY) unclassified fill Replace 382FT x 52FT x 1FT (736CY) topsoil
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Area 10:... Remove, dispose of 665FT x 1,006FT x 10FT(247,774CY)sediments...

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Repair(4) 3FT x 3in x 12in walkway bridge decking... Remove sediment debris from diversion structure...

Replace (3) Instrumentation panels/components each with...

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Damage to 2,500LF x 2FT diameter, concrete discharge is unknown pending inspection and verification...

PROJECT NOTES:

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Source documents used to validate Applicant estimated costs include unit pricing from "CDOT 2013 Cost Data" weighted averages, "Boulder County Parks and Open Space Cost Estimating Guide" where per 5/13/14 email, costs "were derived from actual costs for projects bid/costructed in 2011", and "Cost Data: Boulder County Flood Recovery Bid Summary Average Unit Costs 4/10/14". Validation confirms Applicant estimate is within prescribed guidelines and as such is utilized for the PW cost basis (see Validation estimate with backup unit price sources)...

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Likely copy and paste error?

MAINTENANCE RECORDS: The Applicant shall provide maintenance records prior to project closeout for the purposes of confirming that the facility was improved and maintained, to include signage placement, construction of stone low water crossings, construction of stone benches, .

Page 8 of 14

installation of trash receptacles and backfilling of trail surfaces washed out by high water events						
	Hazard Mitigation Proposal					
* Is effective mitigation feasible on this	site?	Yes				
If you answered Yes to the above ques	tion, the nex	t question is required				
Will mitigation be performed on this site	?	Yes				
If you answered Yes to the above question, the next question is required						
Do you wish to attach a Hazard Mitigat Proposal?	on	No				
If you answered Yes to the above ques	tion, the nex	t two questions are require	ed			
Please provide the Scope of Work for to (maximum 4000 characters)	ne estimate:	Concrete spillways are under consideration, design and at such time as complete, the Applicant will request this HMP to prevent similar damage. The spillways are being designed to prevent Lake breach from overflow conditions				
Would you like to add the Hazard Mitig Proposal as a cost line item to the proje	ation ect cost?	Νο				
	GI	S Coordinates				
Project Location		Latitude	Longitude			
South of Hwy 66, 2 miles west of intersection with Hwy 36		40.19767	-105.21858			
(maximum 4000 characters) Would you like to add the Hazard Mitig Proposal as a cost line item to the project Project Location South of Hwy 66, 2 miles west of intersection with Hwy 36	ation ect cost? Gl	prevent similar damage. prevent Lake breach fror No S Coordinates Latitude 40.19767	The spillways are being designed n overflow conditions Longitude -105.21858			

Special Considerations

 Does the damaged facility or item of work have insurance coverage and/or is it an insurable risk (e.g., buildings, equipment, vehicles, etc)? 	No
2. Is the damaged facility located within a floodplain or coastal high hazard area and/or does it have an impact on a floodplain or wetland?	Yes
If you would like to make any comments, please enter them below.	
(maximum 4000 characters) FIRM 08013C0253J - Lake 4 is in Zone A	
3. Is the damaged facility or item of work located within or adjacent to a Coastal Barrier Resource System Unit or an Otherwise Protected Area?	No
4. Will the proposed facility repairs/reconstruction change the pre-disaster conditions (e.g., footprint, material, location, capacity, use of function)?	No
5. Does the applicant have a hazard mitigation proposal or would the applicant like technical assistance for a hazard mitigation proposal?	Yes
If you would like to make any comments, please enter them below.	
(maximum 4000 characters) The Applicant is in the design stage process for spillways that will prevent future, similar, damage a 406 mitigation be provided at a later date, when design and details are complete.	and requests that
6. Is the damaged facility on the National Register of Historic Places or the state historic listing? Is it older than 50 years? Are there more, similar buildings near the site?	No
7. Are there any pristine or undisturbed areas on, or near, the project site? Are there large tracts of forestland?	No
8. Are there any hazardous materials at or adjacent to the damaged facility and/or item of work?	No
9. Are there any other environmental or controversial issues associated with the damaged facility and/or item of work?	Yes
If you would like to make any comments, please enter them below.	

(maximum 4000 characters) There may be Preble's mouse habitat in the area..

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Attachmer	its											
Use	r	Date	Document Type	Descri	ptior	Hard Ref	Copy File erence		File	Name	9	Action
MICH/ MERAN		06-17- 2014	Floodplain	FIR	М			FIRM	080 / (629	3C02 .29 kt	53J.pdf)	<u>View</u>
			Ear Cat									
ls offective	mitias	tion feasible	on this prois	egory C,	U, E	, г, апо е	Projects	soniy				
Is ellective	vered 1	Ves to the ab	on this proje	the next	re: t aux	s Antion is re	quirod					
Will mitigat	Will mitigation be performed on any sites in this Yes											
If you ansv	vered `	Yes to the ab	ove question	n, the next	t aue	estion is re	auired					
Do you wis Proposal?	sh to at	ttach a Hazai	d Mitigation	,	No		1					
If you ansv	vered `	Yes to the ab	ove question	n, the next	t two	questions	are requ	ired				
Please pro for the esti	vide th mate:	e Scope of V	Vork		Cor futu esti con	ncrete spill ire, similar mating suc nplete.	ways are event. Th ch cost ar	proposed ne applicar nd shall pro	to alle nt is cu ovide t	viate c rrently he dat	lamage fro / designing a as soon	om a g and as
Would you Proposal a	like to s a cos	add the Haz st line item to	ard Mitigatio the project of	n cost?	No							
Comments	; ;					<u>,</u>						
Attachmen	ts											
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			=		Jost		<u></u>		<u> </u>			
Is this Proj	ect Wo	orksheet for	Co	ost Estima	te F	ormat						
(Preferre	d) Re	epair		- .			,			[
Sequence	Code	Material and/or Description	Unit Quantity	Unit of Measure	U	Init Price	Sub Budge	grant et Class	Туре	Cost	Estimate	Action
				***	Ver	sion 0 ***						
					(CEF						
1	General Speedsheet)CEF Cost Estimate (See Attached Spreadsheet)1LS\$ 9,033,490.00CONSTRUCTIONCEF\$ 9,033,490.00											
								Total C	ost:	\$ 9,0	33,490.00	
		tments (Dod		coode and	4 60	ttlemonte)	5000/50					
							- 5900/88	Subgrant				
Sequence	Code	Material and	d/or Descript	ion Un Quan	it ntity	Unit of Measure	Unit Price	Budget Class	Ту	pe	Cost Estimate	Action

Total Cost Estimate:

Total Cost: \$ 0.00

(Preferred Estimate Type + Insurance Adjustments) \$ 9,033,490.00

Comments						
Attachments					-	
User	Date	Document Type	Description	Hard Copy File Reference	File Name	Action
MICHAEL MERANDA	06- 17- 2014	Calculation Sheet	Applicant Quantities Spreadsheet		Applicant Quantities Spreadsheet.pdf(349.52 kb)	<u>View</u>
MICHAEL MERANDA	06- 18- 2014	Additional Information	Applicant Estimate With Validation and Backup Documentation		Applicant Estimate With Validation and Backup Cost Documentation.pdf(2.65 Mb)	<u>View</u>
MICHAEL MERANDA	06- 19- 2014	Additional Information	CEF Lake 4		CEF BOUCO51 - Lake 4.pdf (514.90 kb)	<u>View</u>
			Existing Insurance	Information		
Insurance	Туре	Policy No.	Bldg/Property C Amount A	Content Ins Amount Ai	urance Deductible Ye mount Amount Red	ears quired
Comments						
Attachments						
			Commente and A	Hashmanta		
Name of S	Section	Commen	t	ltachments Attac	hment	
Lake 4 Aerial 10-7-12.jpgLake 4 Aerial 10-6-13.jpgLakes 2, 3, 4 On 10-7-12.jpgLakes 2, 3, 4 On 10-7-12.jpgLakes 2, 3, 4 On 10-6-13.jpgPre-Post Flood Damage Areas and Elevation Survey Maps.pdfLake 4 Sediment Infiltration & Shoreline Damage.JPGLake 4 Breach & Shoreline Damage.JPGDiversion Structure.pdfDiversion Structure 2.pdfInstrumentation Photo2a.jpgInstrumentation Photo2b.jpgInstrumentation Photo3.jpgphoto 4.jpgInstrumentation Location Map 2 ipg						
Special Consi	ideratior	าร	FIRM 08013C0253J.pc	lf		
Cost Estimate	9		Applicant Quantities Sp Applicant Estimate With CEF BOUCO51 - Lake	preadsheet.pdf n Validation and 4.pdf	d Backup Cost Documentation.p	odf
GEF BOUCOST - Lake 4.pdf IGA 2702_001.pdf RFP # 6088-14.pdf Form 90-91 Backgrounder.pdf Flooding Extents and Flood Flow Path.pdf Procurement Policy.pdf						

Bundle Reference # (Amendment #)	Date Awarded

Subgrant Application - FEMA Form 90-91

	FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET								
DISASTE	SASTER		PROJECT NO. BOUCO51	PA ID NO. 013-99013-	DATE		CATEGORY G		
APPLICANT: BOULDER (COUNTY) WORK COMPLETE AS OF:									
						Site	1 of 1		
DAMAGE	ED FACILI	TY:					COUNTY: Boulder		
Lake 4									
LUCATI	JN:							40.19767	-105.21858
Current \	Version:								
South of (approxin Boulder (Ute Hwy (mately in th County.	Colo ne ce	rado H enter o	lwy 66 f Secti), approximately 2 n on 27, Township 3 f	niles west of the North, Range 70	intersection with U.S. Hwy 36 West), in unincorporated		
DAMAGE	E DESCRI	PTIC	ON AN	D DIM	ENSIONS:				
Current	Version:								
Heavy ra scoured volumes measurir	ains betwee Lake adjac of sedime ng and mo	en 9/ cent nt inf nitori	11 - 9/ ground filtratio ing ele	20/201 Is, brea n into f ctrical	13 resulted in St. Vr. ach of Lake east an the lake bed, impac instrumetation pane	ain Creek and tri d west berms, w t damage to and els and debris inf	ibutary overflows, velocity overfl vashout of shorelines and slurry/ sediment infiltration of a diversi filtration into an underground dra	ow and overland f rip rap shoreline p on structure, subr ainage pipe	looding that deep- rotection, large nersion of water
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Area 1 (t 305FT x 260FT x 260FT x	berm & sho 17.59FT x 50FT x 18 60FT x 1F	orelir 24.5 FT(8 FT(5	ne): 5FT(4, 3,667C 78CY)	869CY Y)uncl topsoil)clay washed out assified fill washed washed out	out			
Area 2 (t 366FT x 366FT x	berm & sho 49FT x 2F 49FT x 1F	orelir T (1 T (6	ne): ,328C` 64CY)	Y)uncla topsoi	assified fill washed o il washed out	out			
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APPLICANT REP. Michelle Krezek

conditions	at the site?	Yes V No	Special Considerations included? 🗹 Yes 🔲 No						
Hazard Mi	tigation prop	oosal included? 🗌 Yes 🗹 No	Is there insu	rance coverage on this facility?	Yes V No				
		- <u></u>	PROJE	CT COST					
ITEM	CODE	NARRATIVE		QUANTITY/UNIT	UNIT PRICE	COST			
		*** Version 0 ***	*						
		CEF							
1	9000	CEF Cost Estimate (See Attached Spreadsheet)		1/LS	\$ 9,033,490.00	\$ 9,033,490.00			
					TOTAL COST	\$ 9,033,490.00			
PREPARED BY MICHAEL MERANDA			TITLE	E CEF Estimator	SIGNATURE				

TITLE Commissioner's Deputy

SIGNATURE

		BOULDER (COUNTY)	:			
Conditions Information						
Review Name	Condition Type	Condition Name	Description	Monitored	Status	
No Conditions						

Internal Comments						
No.	Queue	User	Date/Time	Reviewer Comments		
No Comments						

CEF Fact Sheet

Boulder County - Western Mobile Lake 4 Dam and Reservoir

	Lives 47, 0044
Date of Estimate:	June 17, 2014
FEMA Region:	8
Preparer(s):	Michael Meranda
Applicant Name:	Boulder County
Project Title:	Facility Replacement/Repair
Damaged Facility:	Western Mobile Lake 4 Dam and Reservoir
Declaration Number:	4145
Project Number:	BOUCO51
PA ID No.:	013-99013-00
Date of Inspection:	May 15, 2014
Event Date(s)	9/11 to 9/30 2013
Work Category:	G
Type of Work:	Repair
(Enter New, Repair, etc.)	

Preparer's Notes:

This CEF is written for Western Mobile Lake 4 (12 damage areas). 0% of the work is complete. A field inspection was conducted on 5/15/14, claimed damage dimensions sample verified, and Applicant provided prepost survey elevation maps + "Quantities" spreadsheet list dimensions of damage and sediment infiltration by area.

Lake 4 Dam and Reservoir is jointly and equally owned with St. Vrain and Left Hand Water Conservancy District (District) for the purpose of water storage and augmentation purposes. See RFP #6088-14 for ownership and facility details + IGA for St. Vrain & Left Hand Water Conservancy District.

Water is normally supplied to the reservoir via the South Branch Ditch via a diversion from St. Vrain Creek several miles upstream.

Damages to Lake 4 resulted from flood generated velocity overflows that breached St. Vrain Creek, continued overland, deep-scoured grounds, washed out east and west Lake 4 berms and shorelines, washed out shoreline slurry walls, infiltrated the primary outlet, washed away topsoil areas, and deposited large volumes of sediment into the lake bed.

Per CEF Instructional Guide V2.1 page 4-8 paragraph 4.10 and 4-10 b), Bid # 5913-13, Bid # 6050-14 as well as Cost Data: Boulder County Flood Recovery 4/10/14 Avg. Bid Summary Unit Costs, CDOT Cost Data 2013, and Boulder County Cost Estimating & Equipment Rental Rate Guide April 2011 were used to validate the Applicant provided, base cost estimate. Validation with referenced sources supports the Applicant's base cost estimate that is within prescribed guidelines and utilitized in Part A of this CEF.

Applicant estimated soft costs absent basis, and listed Lump Sum line items that cannot be validated, are not included, and CEF factors are utilized instead to address relevant soft costs.

The Applicant and District will each be responsible for 1/2 of the eligible repair costs.

CEF Notes

Damaged Facility:		Western Mobile Lake 4 Dam and Reservoir
Applicant Name:		Boulder County
Project Number:		BOUCO51
Date of Estimate:		June 17, 2014
Preparer(s):		Michael Meranda
Part A Notes:	A.1 -	Project base cost utilized and validated is by Boulder County Parks & Open Spaces
		(BCPOS) and developed from historic as well as recently bid unit rates for similar
		work in the area.
	A.2 -	All Work To Be Completed is considered permanent in nature
Part B Notes:	B.1 -	A 0% General Requirements factor is applicable for Safety & Security as no guard
		service, traffic control or barricading, safety equipment, fire protection, signage,
		pedestrian or vehicle control around the construction site apply for the work type
		and location; .00025% is applied for santitary services for the work location; .0025%
		is applied for Quality Control services where shoreline breach repair compaction
		testing services apply; 0% factor is applied for Submittals that are not required for
		the job type.
	B.2 -	0% factor is applied for General Conditions as unit prices used for the project
	0.1	estimate include supervision.
Part C Notes:	C.1 -	0% factor is applicable for Design Phase 7 Scope Definition Contingencies as the
		reservoir was originally a borrow pit absent design, the scope of work for in kind
	0.2-	0% factor is applied for Facility or Project Constructibility in that the repairs are in-
	0.2 -	kind non-complex no physical constraints exist at the location work does not
		require intense detail and sequencing nor closer supervision throughout the
		process and sub-surface conditions to include de-watering are costs already
		considered in Part A unit prices.
	C.3 -	0% factor is applied for Access as mobization costs are included in Part A. the
		location is 7 miles from an urban location, the majority of work does not involve
		materials delivery, temporary equipment access road is already provided for in the
		base cost estimate of Part A, there are no difficult site loading conditions, or
		restrictions for off site parking, materials delivery times, or obstructions created by
		utilties or exposed systems; 0% factor is applicable for Storage as adequate area
		exists; 0% factor is applicable for Staging as there are no complications due to
		occupation of the facility, lack of space, or access to the facility.
	C.4 -	Economies of Scale factor is applied per CEF Instructional Guide Section 6.4.
	••••	Table C.4. page 6-4 considering a decrease in cost due to project size, repetitive
		tasks involving earthwork, sediment removal & hauling/disposal, as well as
		mobilization costs for putting labor and equipment (left on site) to work that are
		addressed on Part A and that are proportionally lower due to the extended number
		of days required to affect repairs.
Part D Notes:	D.1 -	0% factor is applied for General Contractors home and overhead cost as unit prices
		used for the estimate include O&P
	D.2 -	No General Contractors insurance, payment and performance bond are considered
		for factoring as unit prices used for the estimate include O&P
	D.3 -	0% factor is applied for General Contractors profit as the unit prices used for the
l		estimate include O&P

Part E Notes:	E -	0% factor is applicable for Cost Escalation as the majority of repairs involve earthwork, excavation, and hauling/disposal work where inflation-caused increases in equipment and/or labor costs are already considered in estimated unit prices
Part F Notes:	F.1 -	No plan review fees are applicable for non-complex sediment removal and earthwork repairs
	F.2 -	No specific construction permit fees are identified by BCPOS. Actual costs shall be considered where required and presented.
Part G Notes:	G.1 -	3% factor is applied for Applicant's Reserve For Change Orders considering outlet structure damage or repair is unknown until sediments are removed and change orders as well as amended scopes of work may be required.
Part H Notes:	H.1 -	0% factor is applied for Applicants Project Management - Design Phase where the majority of repair work is in kind sediment removal, in kind earthwork, and where minimal design requirements are addressed with costs included in the H.2 factor.
	H.2 -	A 3% A&E Design Contract Cost is applied for minimal preliminary engineering analysis, design, final design, construction and worksite inspections, review of bids, review of contractor's requests for payments, and for acting as the Applicant's representative.
	H.3 -	A 3% factor is applied per CEF Instructional Guide Table H.3 where there will be requirements for advertising and awarding of the construction contract, decisions on construction problems, and possible omissions and/or unforeseen problems such as differing site conditions.
Miscellaneous		
Notes &		
Comments:		

CEF Part A

ltem No.	Item Description Title / Component Description	Div. # or Cost Code	Qty	Units	Unit Price	City Adj Factor		Total Cost
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	Completed Permanent Items							
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	Completed Non-Permanent Items							
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Uncom	pleted Work Items							
	Uncompleted Permanent Items							
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	Applicant Estimate (Base Cost Project Subtotal)	Boulder County	1.00		\$ 8,013,047.69	1.0000	18	8,013,047.69
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					\$ -		\$	-
			Unco	mplete	d - Non-Perman	ent Total	\$	-
TOTAL PART A BASE CONSTRUCTION COST								

CEF Summary of Completed Work



CEF Summary of Completed Work

Boulder County - Western Mobile Lake 4 Dam and Reservoir																			
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A.1	Permanent Work (CEF Part A)	· · · · · ·		\$ 8,413,04	8		1	<u> </u>	1		<u> </u>	· · · ·	\$	8,413,048
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в	<u> </u>			General Requir	ements	and Genera	l Cond	itions						
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	Quality Control	0%	1.0%	0.0%				_		· · ·				
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				\$ 23,130	6 \$	-	\$	-	\$		\$		· \$	23.136
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	PART A throu	gh B SUE	TOTAL	\$ 8,436,184	1 5	•	\$	<u> </u>	\$	-	\$. \$	8,436,184
C.			ang salah Ang salah	Constru	ction Co	st Continge	ncies		•		• 			
C.1	Design-Phase Scope Contingencies	Gui Low to	de Hiab			Ente	r%inAj	ppropriate Co	lumn					
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	Working Drawings	2.0%	10.0%		<u> </u>									
							3	•	3		• •		- >	•
C.2	Facility or Project Constructability					Ente	sr % in Ap	ppropriate Co	lumn					
	Facility or Project Type and Complexity	See IG fo	r Values	s	-		5		5					
									1.				Ť	
C.3	Access, Storage & Staging	Gui Low to	de Hiah			Ente	ar%inA	ppropriate Co	lumn					
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	Storage Contingencies	0.0%	4.0%											
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C.4	Economies of Scale			5	-	Г		<u>г</u>	-	Г		<u> </u>		
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0.3	General Contractor's Profit				~	0.02					<u>01/</u>			
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CEF Summary of Uncompleted Work

Boulder Coun	ty -	Western	Mobile La	ake 4 l	Dam and I	Reservo	ir			
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PART A through E SUBTOTA	LS	8,273,942	\$	- \$		\$		\$-	\$	8,273,942
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F.2 Construction Permit Fees	1									
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G Lénetheophie Descent for Change Orders		Applicant's I	Reserve for C	nange O	rders	<u> </u>	_			
Applicant's Reserve for Change Orders	-	~	1	1		1 7.00	1	1		
1		3.0%	7.0%		7.0%	7.0%		7.0%		
PART G Tota	1 5	<u>3.0%</u> 248,218	7.0% \$	- \$		\$		7.0% \$	\$	248.218
PART G Tota PART A through G SUBTOTAI	ll <u>\$</u>	<u>3.0%</u> 248,218 8,522,160	7.0% \$	- \$		\$ \$		7.0% \$ \$	S S	248.218
PART G Tota PART A through G SUBTOTAI H	ll S L S App	3.0% 248,218 8,522,160	7.0% s s t Managemen	- \$ - \$ t And De	7.0%	\$\$	· - -	7.0% S - S -	\$	248.218 8,522,160
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase	II S L S App	3.0% 248.218 8,522,160	7.0% S t Managemen	- \$ - \$	 	\$ \$	· · · · · · · · · · · · · · · · · · ·	7.0% <u>\$</u> - <u>\$</u> -	\$ \$	248,218 8,522,160
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase 1.0%	App	3.0% 248.218 8,522,160	7.0% S t Managemen	- \$ t And De	osign Costs	л.ож s Г s		7.0% \$ - \$ - \$ - \$ -	\$ \$ \$	248,218
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - 1.0% Design Phase 1.0%	App	3.0% 248.218 8,522,160	7.0% S t Managemen	- \$ - \$ t And De	r.0%	л.0% [\$ [\$		7.0% \$ - \$ - \$ -	\$ \$	248.218
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase 1.0% H.2 A/E Design Contract Applicability Above Average Complexity (Curve A)	App	3.0% 248.218 8,522,160	7.0% S t Managemen	- \$ - \$ t And De	7.0% 			7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$	248.218
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase 1.0% H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services		3.0% 248.218 8,522,160 blicant's Projec □ □ □ □ □ - - - - - - - - - - - - - -	7.0% S t Managemen r S	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0%	7.0% 	л.ож \$ \$ 	- - 5.6% 4.5% 3.0%	7.0% \$- \$- \$- \$- \$- \$- \$- \$.69 [T 5.69 [T 5.69 [T 3.09]	\$	248.218
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PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - 1.0% H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services A/E Design Contract Cost Above Average Complexity (Curve A)	App	3.0% 248.218 8,522,160 Ilicant's Projec □ □ □ □ - 8.6% □ 8.4% □ 3.0%	7.0% \$ t Management r s s \$	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0%	7.0% esign Costs Γ Γ 5.6% Γ 4.5% Γ 3.0%	7.0% \$ \$	- - 5.6% 4.5% 3.0%	7.0% \$ - \$ -	5 5 5	248.218
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase 1.0% H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services A/E Design Contract Cost Above Average Complexity (Curve A) Average Complexity (Curve B)	App	3.0% 248.218 8,522,160 Nicant*s Projec □ □ □ □ □ - - - - - - - - - - - - - -	7.0% \$ t Managemen r s s s	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0%	7.0% →	7.0% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 5.6% 4.5% 3.0%	7.0% \$ - \$ -		248.218
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase 1.0% H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services A/E Design Contract Cost Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services	App S S S S S S	3.0% 248.218 8,522,160 Ilicant's Projec Γ - - - - - - - - - - - - - - - - - - -	7.0% \$ \$ t Managemen \$ \$ \$ \$ \$ \$ \$	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0%	7.0% 	7.0% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - -	7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	S S S S	248.218
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - 1.0% H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services A/E Design Contract Cost Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services	App S S S S S S	3.0% 248.218 8,522,160 ilicant's Projec	7.0% \$ \$ t Managemen r s s s s s s s s s	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0% - \$ - \$ - \$ - \$ - \$	7.0% →	7.0% \$	- - - - - - - - - -	7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		248.218
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PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services A/E Design Contract Cost Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services H.3 Project Management - Construction Phase	I S App S S S S S S S S S S S S S	3.0% 248.218 8,522,160 ilicant's Projec	7.0% \$ \$ t Managemen r s s s s s s s s s s s s s	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0% - \$ - \$ - \$ - \$ - \$	/.0% 	7.0% \$ <		7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		248.218
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase 1.0% H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services A/E Design Contract Cost Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services	I S App S	3.0% 248.218 8.522,160 Ilicant's Projec □ □ □ □ 0 1 0 8.6% □ 0 0 0 0 0 0 0 0 0 0 0 0 0	7.0% \$ \$ t Managemen r \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0% - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	7.0% → esign Costs	7.0% \$	- - - - - - - - - - - - - - - - -	7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	S S S S S S S S S S S S S S S S S S S	248.218 8,522,160 255.665 255.665
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services A/E Design Contract Cost Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services	App S S S S S S S S S S S S S	3.0% 248.218 8,522,160 Ilicant's Projec □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	7.0% \$ \$ t Management f \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0% - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	7.0% esign Costs □ □ □ □ □ □ □ □ □ □ □ □ □	7.0% \$	- - - - - - - - - - -	7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	S S S S S S S S S S	248.218 8,522.160 255.665 255.665 511,330
PART G Tota PART A through G SUBTOTAI H H.1 Applicant's Project Management - Design Phase H.2 A/E Design Contract Applicability Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services A/E Design Contract Cost Above Average Complexity (Curve A) Average Complexity (Curve B) Basic Construction Inspection Services H.3 Project Management - Construction Phase Part H Tota PART A through H SUBTOTAI	App S S S S S S S S S S S S S	3.0% 248.218 8.522,160 Ilicant's Projec □ □ □ □ 0 0 0 0 0 0 0 0 0 0 0 0 0	7.0% \$ \$ t Management f \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ t And De - \$ 5.6% 4.5% 3.0% - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	7.0% ⇒sign Costs Г - - - - - - - - - - - - -	7.0% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - -	7.0% \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	S S S S S S S S S S S S S S	248.218 8,522,160

CEF Total Project Summary

Summary

		Completed	ed Uncompleted			Total	
	Complete Project Total for Completed and Uncompleted Work	\$ -	\$	9,033,490	\$	9,033,490	
PART A	"Base Costs" for Construction Work In Trades	\$-	\$	8,413,048	\$	8,413,048	
	A.1 Permanent Work	\$-	\$	8,413,048	\$	8,413,048	
	A.2 Non-Permanent Job Specific Work (CEF Part A)	\$-	\$		\$		
PART B	General Requirements and General Conditions	\$ -	\$	23,136	\$	23,136	
	B.1 General Requirements	\$-	\$	23,136	\$	23,136	
	B.2 General Conditions	\$ -	\$	-	\$	-	
PART C	Construction Cost Contingencies (Design and Construction)	\$ -	\$	(162,242)	\$	(162,242)	
	C.1 Standard Design-Phase Scope Contingencies	\$-	\$	-	\$	-	
	C.2 Facility or Project Constructability	\$ -	\$	-	\$	-	
	C.3 Access, Storage, and Staging Contingencies	\$ -	\$	•	\$	-	
	C.4 Economies of Scale in New Construction	\$	\$	(162,242)	\$	(162,242)	
PART D	General Contractor's Overhead and Profit	\$ -	\$	•	\$	-	
	D.1 General Contractor's Home Office Overhead Costs	\$ -	\$	-	\$	-	
	D.2 General Contractor's Insurance, Payment, and Performance Bonds	\$ -	\$	-	\$	-	
	D.3 Contractor's Profit	\$	\$	-	\$	-	
PART E	Cost Escalation Allowance	\$-	\$		\$	•	
PART F	Plan Review and Construction Permit Costs	\$ -	\$	•	\$	-	
	F.1 Plan Review Fees	\$ -	\$	-	\$	-	
	F.2 Construction Permit Fees	\$ -	\$	-	\$	-	
PART G	Applicant's Reserve for Construction	\$ -	\$	248,218	\$	248,218	
PART H	Applicant's Project Management and Design Costs	\$ -	\$	511,330	\$	511,330	
	H.1 Applicant's Project Management - Design Phase	\$ -	\$	-	\$	•	
	H.2 Architecture & Engineering Design Contract Costs	\$ -	\$	255,665	\$	255,665	
	H.3 Project Management - Construction Phase	\$-	\$	255,665	\$	255,665	

QUANTITIES

			17.59456	5,366.	24SF
Area 1	Length (ft)	Width (ft)	Area (sq-ft)	Depth (ft)	Volume (CY)
Clay Core	305	*see drawing	*see drawing	24.5	4869
Unclassified Fill	260	50	13000	18	8667
Topsoil	260	60	15600	1	578
Area 2					
Unclassified Fill	366	49	17934	2	1328
Topsoil	366	49	17934	1	664 🗸
Area 3		S. S. S. S. S.			
Unclassified Fill	236	70	16520	18	11013
Topsoil	236	70	16520	1	612
Area 4/5			10'		
Unclassified Fill	335	43	*see drawing	20	5335
Topsoil	335	48	16080	1	596
Debris Removal	-	-		-	1
Riprap Bedding	22	14	308	0.75	9
Grouted Riprap	22	14	308	1.5	17
Area 6					
Unclassified Fill	382	51	281	11	3969
Topsoil	382	52	19864	1	736
Area 7		(19.055	1,791.17		
Core	94	*see drawing	*see drawing	27	1791
Unclassified Fill	94	148	13912	26	10048
Topsoil	94	148	13912	1	515
Riprap Bedding	108	15	1620	0.75	45
Riprap	108	15	1620	2	120
Area 8					
Unclassified Fill	291	51	510	20	5497
	291	51	14841	1	550
Area 9	0 1	0	C. 1.1	77 -	20
Topsoil	506	0.	field notes	.555	30
Area 10					
Dredging	665	1006	668990	10	247774
Area 11					
Dredging	365	450	164250	12	73000
Area 12					
Dredging	226	747	168822	12	75032

395,806

APPLICANT PROVIDED QUANTITIES SAMPLEY VERIFIED DURINE 5/15/14 FIELD INSPECTION

VALIDATION ESTIMATE

Line Item	Unit	Qty	Cost Per Unit	Total	1	Cost Per Unit	Total	
Construction					6			
Mobilization/Demobilization	LS	1	\$ 400,000.00	\$ 400,00	0			
Excavation and Disposal of Flood Sediment	CY	395,806	\$ 15.92	\$ 6,301,23	3 *	19	7,520,315.41	BC Cost Guide Pg. 6
Woody Debris Removal and Disposal	CY	50	\$ 50.00	\$ 2,50	0		-	
Clay Core and Installation	CY	6,660	\$ 30.00	\$ 199,79	8 *	30.5	203,127.74	Cost Data BC Bids
Riprap Bedding and Installation	CY	54	\$ 48.00	\$ 2,57	1	* 50	2,677.78	Cost Data BC Bids
Water Control	LS	1	\$ 10,000.00	\$ 10,00	0		-	
Shoreline Repair and Restoration	LF	1,503	\$ 15.00	\$ 22,54	5 *	25.87	38,882.61	CDOT 203-00062 Cost
Riprap and Installation	CY	137	\$ 70.00	\$ 9,59	8	* 76.77	10,526.02	Bid # 5913-13
Import and Place Unclassified Fill	CY	45,856	\$ 27.00	\$ 1,238,12	3 *	27	1,238,123	Bid # 6050-14
Access Development and Restoration	LS	1	\$ 10,000.00	\$ 10,00	0			
Erosion Control (seeding, soil amendment, matting)	SF	12,024	\$ 1.50	\$ 18,03	6 *	0.5	6,012	BC Cost Guide Pg. 7
Import and Place Topsoil	CY	4,280	\$ 42.44	\$ 181,64	5 *	42.44	181,644.77	Cost Data BC Bids
Diversion Structure Repair (reconstruct upper walkway/vehicular bridge deck, 32'x3')	LS	1	\$ 5,000.00	\$ 5,00	0			
Instrumentation (Monitor-1 datalogger, NEMA enclosure, solar regulator, and 7 AH battery, Sutron Stage								
Discharge Recorder, pressure transducer)	LS	1	\$ 10,000.00	\$ 10,00	0			
Clean out Outlet (outlet pipe is buried in sediment, jet out to remove deposit)	LS	1	\$ 2,000.00	\$ 2,00	0			
Unlisted Items (10%)	LS	1	\$ 93,000.00	\$ 93,00	0			
Contingency (25%)	LS	1	\$ 2,300,000.00	\$ 2,300,00	0			
Construction Total			the second second	\$ 10,806,04	8			
	1			\$ 7,986,04	8	Validation	9,201,309.33	
Engineering						Base Cost E4 E17	8,013,047.69	
Design	LS	1	\$ 480,000.00	\$ 480,000.0	0			
Materials Testing	LS	1	\$ 80,000.00	\$ 80,000.0	0			
Construction Related Engineering	LS	1	\$ 240,000.00	\$ 240,000.0	0			
Permitting	LS	1	\$ 80,000.00	\$ 80,000.0	0			
Engineering Total				\$ 880,000.0	0	1		
Project Total				\$ 11,686,047.6	9			

COST DATA: BOULDER COUNTY FLOOD RECOVERY

UPDAT	ED KKO, 4/10/14		BID SUMMARY				
ITEM	DESCRIPTION	LINUT		UNIT COST			
TIEW	DESCRIPTION	UNIT	ENG. EST.	AVERAGE	AWARDED		
201	CLEARING AND GRUBBING	LS	\$3,666.67	\$12,138.89	\$7,333.33		
201	CLEARING AND GRUBBING	AC	\$4,000.00	\$48,000.00	\$48,000.00		
202	REMOVAL OF TREE	EA	\$800.00	\$640.47	\$500.00		
202	REMOVAL OF PIPE	LF	\$203.75	\$258.08	\$110.49		
202		CY	\$9.50	\$33.56	\$32.63		
202		SY	\$6.33	\$14.84	\$12.83		
202			\$1.00	\$5.00	\$5.00		
202	REMOVAL OF WALL	LO	\$100.00	\$68.00	\$68.00		
202	REMOVAL OF GUARDRAIL TYPE 7	LF	\$10.00	\$18.00	\$18.00		
202	REMOVAL OF RIPRAP	SY	\$15.00	\$37.87	\$37.87		
202	REMOVAL OF CONCRETE	SY					
202	REMOVAL OF CONCRETE	LS	\$10,000.00	\$9,228.69	\$9,228.69		
202	CLEAN CULVERT	EACH	\$1,700.00	\$3,057.50	\$3,115.00		
203	UNCLASSIFIED EXCAVATION	CY	\$47.50	\$76.49	\$66.49		
203	UNCLASSIFIED EXCAVATION (CIP)	CY	\$90.00	\$77.67	\$67.00		
203	EMBANKMENT MATERIAL (CIP)	CY	\$27.30	\$39.48	\$32.57		
203	EMBANKMENT MATERIAL (CIP) (IMPORT)	CY	\$30.50	\$47.15	\$66.00		
203	ROCK EMBANKMENT MATERIAL	CY					
203	ROCKERY FILL (CIP)	CY	\$35.00	\$88.25	\$70.00		
203	PROOF ROLLING	HOUR	\$190.00	\$145.94	\$134.81		
203	GRADING	HOUR	\$175.00	\$229.45	\$283.89		
203		HOUR	\$175.00	\$154.81	\$179.02		
203		HOUR	\$240.00	\$231.08	\$302.27		
203		HOUR	\$110.00	\$111.07	\$102.13		
203	SHEEPS FOOT COMPACTOR	HOUR	\$150.00	\$185.96	\$196.91		
203	SKID STEER (TRACK)	HOUR	\$150.00	\$108.66	\$117.32		
203	FRONT END LOADER (RUBBER TIRE)	HOUR	\$150.00	\$245.11	\$350.22		
203	POTHOLING	HR	\$170.00	\$290.00	\$290.00		
203	SWEEPING	HR	\$160.00	\$200.00	\$200.00		
206	STRUCTURE EXCAVATION	CY	\$17.50	\$20.67	\$22.50		
206	STRUCTURE BACKFILL (FLOWFILL)	CY	\$100.00	\$243.27	\$216.33		
206	STRUCTURE BACKFILL (CLASS 1)	CY	\$30.00	\$69.00	\$79.00		
206	BEDDING MATERIAL	CY	\$30.00	\$73.67	\$48.00		
207	RECOVERED RIVER BED MATERIAL	CY	\$75.00	\$33.96	\$33.96		
207	TOPSOIL (4-INCH)	CY	\$12.00	\$63.00	\$63.00		
207		CY	\$50.00	\$42.44	\$42.44		
207			\$100.00	\$60.33	\$59.00		
208			\$17.00	\$5.05	\$5.65		
200		FA	\$800.00	\$1 300.00	\$1 300 00		
208	STORM DRAIN INLET PROTECTION	FA	\$140.00	\$370.00	\$370.00		
208	STABILIZED CONSTRUCTION ENTRANCE	EA	\$1,100.00	\$1,734,85	\$1,734.85		
208	REMOVAL AND DISPOSAL OF SEDIMENT (LABOR)	HR	\$45.00	\$100.00	\$100.00		
208	REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT)	HR	\$80.00	\$135.93	\$135.93		
208	EROSION CONTROL SUPERVISOR	LS	\$2,000.00	\$4,600.00	\$4,600.00		
208	EROSION CONTROL SUPERVISOR	HR	\$90.00	\$75.78	\$66.02		
208	TEMPORARY DIVERSION	LF	\$50.00	\$223.11	\$223.11		
208	TEMPORARY FILTER BERM	LF	\$35.00	\$197.02	\$197.02		
208	EROSION CONTROL	LS	\$20,700.00	\$21,187.26	\$16,957.50		
210	RESET ARCHITECTURAL PLASTER (CIP)	LS	\$15,000.00	\$10,774.67	\$11,824.00		
210	RESET FENCE	LF	\$25.00	\$11.42	\$17.00		
210		LF	\$125.00	\$143.00	\$200.00		
210	RESET BOULDER (36-INCH)	EA	\$10,000.00	\$140.00	\$140.00		
210	MODIFY BRIDGE (CIP)	LS	\$15,000.00	\$18,828,67	\$27,686.00		
212	SEEDING (NATIVE)	ACRE	\$2.825.00	\$11.070.14	\$11.695.14		
212	SOIL CONDITIONING	ACRE	\$1.800.00	\$4,000.00	\$4.000.00		
212	SEEDING ESTABLISHMENT	AC	\$2,500.00	\$7,142.86	\$7,142.86		
212	SEEDING ESTABLISHMENT (SPECIAL)	LS	\$1,500.00	\$3,200.00	\$3,200.00		
212	SEEDING ESTABLISHMENT (SPECIAL, NATIVE)	SY					
212	SEEDING ESTABLISHMENT (SPECIAL, MEADOW)	SY					
212	TREE RETENTION & PROTECTION	EA	\$1,500.00	\$1,200.00	\$1,200.00		
213	MULCHING	ACRE	\$6,500.00	\$5,389.78	\$6,212.00		
213	IMULGH TACKIFIER	LB	\$50.00	\$42.67	\$6.00		

216	SOIL RETENTION BLANKET	SY	\$8.00	\$21.67	\$8.00
216	SOIL RETENTION BLANKET (BIODEGRADABLE STRAW/COCONUT)	SY	\$5.00	\$7.24	\$7.24
304	AGGREGATE BASE COURSE (CLASS 6)	TON	\$32.00	\$44.78	\$36.12
304	AGGREGATE BASE COURSE (CLASS 6)	CY	\$48.50	\$73.06	\$61.25
304	AGGREGATE BASE COURSE (RAP)	CY	\$27.50	\$28.62	\$25.00
403		TON	\$115.00	\$175.00	\$175.00
420	DRILLED CAISSON (24 INCH)	SY	6200.00	6274.67	6474 00
503		LF QE	\$300.00	\$3/4.6/	\$4/1.00
504	GROUTED RIP RAP	CY	\$200.00	\$328.00	\$180.00
506	RIPRAP (6 INCH)	CY	\$50.00	\$189.31	\$110.00
506	RIPRAP (9 INCH)	CY	\$77.50	\$109.78	\$315.00
506	RIPRAP (12 INCH)	CY	\$65.00	\$78.00	\$69.00
506	RIPRAP (24 INCH)	CY	\$93.00	\$111.92	\$92.04
506	RIPRAP (SPECIAL)	CY	\$75.00	\$98.37	\$82.00
506	RIPRAP (BOULDER SLOPE PROTECTION)	CY	\$92.50	\$116.76	\$116.50
506	RIPRAP ENERGY DISSIPATOR (TEMPORARY)	EA	\$1,000.00	\$4,500.00	\$4,500.00
506	STREAM DIVERSION STRUCTURE (TEMPORARY)	EA	\$1,500.00	\$16,000.00	\$16,000.00
506	CURTAIN WALL	LF	\$180.00	\$180.00	\$180.00
506	SOIL RIPRAP (9 INCH)	CY	\$80.00	\$86.67	\$105.00
506	BURIED RIPRAP (18 INCH)	CY	\$92.50	\$167.87	\$167.87
506	BURIED RIPRAP (24 INCH)	CY	\$111.00	\$323.51	\$323.51
601	CONCRETE CLASS D (BOX CULVERT)	CY	\$500.00	\$1,191.00	\$813.00
601		CY	\$550.00	\$650.00	\$650.00
602		LB	\$1.00	\$2.28	\$1.10
603			\$77.50	\$109.00	\$121.00
603			\$250.00	\$241.82	\$105.00
603	18" CORRUGATED STEEL PIPE (CIP)	LF	\$83.00	\$86.68	\$70.60
603	24" CORRUGATED STEEL PIPE (CIP)	LF	\$103.33	\$102.56	\$89.67
603	30" CORRUGATED STEEL PIPE (CIP)	LF	\$136.67	\$191.11	\$252.84
603	36" CORRUGATED STEEL PIPE (CIP)	LF	\$175.00	\$165.72	\$226.46
603	42" CORRUGATED STEEL PIPE (CIP)	LF	\$250.00	\$253.49	\$304.47
603	48" CORRUGATED STEEL PIPE (CIP)	LF	\$250.00	\$288.91	\$412.81
603	54" CORRUGATED STEEL PIPE (CIP)	LF	\$210.00	\$198.27	\$208.00
603	60" CORRUGATED STEEL PIPE (CIP)	LF	\$250.00	\$187.00	\$156.00
603	60" CORRUGATED STEEL PIPE (INSTALL ONLY)	LF	\$275.00	\$207.25	\$155.50
603	96" CORRUGATED STEEL PIPE (CIP)	LF	\$300.00	\$366.36	\$290.00
603	18X12-INCH CORRUGATED STEEP PIPE ELLIPITICAL	LF	\$70.00	\$200.00	\$200.00
603	18" STEEL END SECTION (CIP)	EA	\$350.00	\$352.93	\$307.00
603	24" STEEL END SECTION (CIP)	EA	\$425.00	\$415.83	\$357.50
603	30" STEEL END SECTION (CIP)	EA	\$500.00	\$/16.07	\$561.00
603		EA	\$800.00	\$904.13	\$/10.00
603		LE	\$1,500.00	\$1,948.34	\$1,565.00
603		LF	\$400.00	\$245.00	\$245.00
606		LP	\$120.00	\$120.00	\$120.00
606	GUARDRAIL FND ANCHOR NON FLARED	FA	\$2 250 00	\$2 344 95	\$2 200 00
606	GUARDRAIL END ANCHOR, NON FLARED (7-FOOT POSTS)	EA.	\$2,500.00	\$3,900.00	\$3,900.00
606	GUARDRAIL END ANCHOR, FLARED (SRT)	EA.	\$2,250.00	\$1,559.48	\$1,350.00
606	GUARDRAIL END ANCHOR, (TYPE 3K) (LOW SPEED)	EA.	\$1,500.00	\$2,000.00	\$2,000.00
606	TRANSITION, TYPE 3L	EA.	\$850.00	\$1,060.35	\$1,050.00
606	TRANSITION, TYPE 3G (7-FOOT POSTS)	EA.	\$1,800.00	\$2,100.00	\$2,100.00
606	GUARDRAIL, TYPE 3 (BRIDGE RAIL)	LF	\$100.00	\$184.11	\$152.00
606	GUARDRAIL, TYPE 3 (RADIUS RAIL)	LF	\$25.00	\$43.40	\$45.00
612	DELINEATOR, TYPE I	EACH	\$25.00	\$22.32	\$18.00
612	DELINEATOR, TYPE III	EACH			
614	IMPACT ATTENUATOR (SPECIAL)	EA.	\$10,000.00	\$22,000.00	\$22,000.00
620	SANITARY FACILITY	EA.	\$600.00	\$596.25	\$502.19
621	IEMPURARY ACCESS	LS	\$6,000.00	\$21,787.31	\$21,787.31
625		LS	\$8,750.00	\$10,588.09	\$12,096.43
627		CAL	\$40,800.00	\$200.000	\$200.00
627		GAL	00.00¢	\$200.00	\$200.00
630		HOUR	\$26.00	\$25.20	\$23.50
630	TRAFFIC CONTROL INSPECTION	DAY	\$199.00	\$234.75	\$252.50
630	TRAFFIC CONTROL MANAGEMENT	HR	\$70.00	\$61.22	\$61.22
630	TRAFFIC CONTROL MANAGEMENT	DAY	\$584.00	\$631.69	\$550.60
630	FLASHING BEACON (PORTABLE)	EA	\$570.00	\$915.00	\$915.00
630	CONCRETE BARRIER (TEMPORARY)	LF	\$35.00	\$31.00	\$31.00
630	BARRICADE (TYPE 3 M-A) (TEMPORARY)	EACH	\$135.00	\$165.00	\$150.00
630	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	\$66.43	\$67.17	\$70.49
Colorado Department of Transportation 2013 Cost Data

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INDEX AND AVERAGE UNIT BID PRICES FOR 01/01/13 THROUGH 12/31/13

ITEM NUMBER	ITEM	TOTAL QUANTITY	UNIT	TOTAL COST	AVERAGE PRICE
202-00840	Removal of Traffic Signal Pole	19	Fach	12.142.00	639.05
202-00842	Removal of Mast Arm	4	Each	647.00	161.75
202-00848	Removal of Traffic Signal Controller and Cabinet	10	Each	7.201.00	720.10
202-00855	Removal of Traffic Signal Controller Cabinet	1	Each	844.40	844.40
	attration of strain the strain				
202-00858	Removal of Pedestal Pole	1	Each	216.00	216.00
202-00860	Removal of Pedestrian Push Button	3	Each	75.00	25.00
202-00888	Removal of Video Detection System	1.	Each	216.00	216.00
202-00895	Removal of Impact Attenuator	6	Each	7,481.75	1,246.96
202-00900	Removal of Concrete Footing	9	Each	5,040.00	560.00
202-01000	Removal of Fence	46,317	Lin Foot	57,357.15	1.24
202-01015	Removal of Rockfall Fence	785	Lin Foot	19,625.00	25.00
202-01030	Removal of Road Closure Gate	10	Each	7,418.82	741.88
202 01040	Persual of HOV Cata		Each	888.00	222 00
202-01040	Removal of Guardiail Type 2	109 002	Lin Foot	429 575 10	222.00
202-01130	Removal of Guardrail Type 3	2 205	Lin Foot	429,070.10 EE 0E0 40	16 77
202-01140	Removal of Guardrail Type 4	3,395	Lin Foot	379 750 58	10.77
202-01170	Removal of Guardrall Type 7	55,456	LIN FOOL	379,750.56	10.72
202-01180	Removal of Median Barrier	3,652	Lin Foot	76,602.30	20.98
202-01200	Removal of Tensioned Cable Barrier	1,000	Lin Foot	3,000.00	3.00
202-01300	Removal of End Anchorage	575	Each	99,886.29	173.72
202-04001	Plug Culvert	20	Each	34,595.99	1,729.80
202-04002	Clean Culvert	307	Each	458,979.00	1,495.05
202-04003	Clean Culvert (Special)	150	Each	192,320.00	1,282.13
202-04005	Clean Valve Box	147	Each	38,990.40	265.24
202-04010	Clean Inlet	99	Each	76,838.59	776.15
202-04060	Dust Abstement	4		40,000,00	40 000 00
202-04100	Abandon Well	3	Fach	3,600,00	1,200,00
202-05019	Sawing Concrete (Special)	1.438	Lin Foot	32,990,00	22.94
202-05026	Sawing Asphalt Material (6 Inch)	1,223	Lin Foot	2,572.50	2.10
					1 00
202-05030	Sawing Asphalt Material (10 Inch)	20,938	Ca Vood	29,039.99	1.08
202-05100	Sandblasting Reinforcing Steel	150 701	Sq faru	72, 200, 64	19.89
202-05150	Removal of Detour	150,731	Lump Sum	209,552.96	104.776.48
					1.1.1.1.1.1.1.1.1
202-07000	Obliterate Old Road	2	Lump Sum	21,400.00	10,700.00
203-00000	Unclassified Excavation	321,996	Cubic Yard	962,556.25	2.99
203-00010	Unclassified Excavation (Complete In Place)	484,996	Cubic Yard	4,521,563.24	9.32
203-00060	Embankment Material (Complete In Place)	1,090,203	Cubic Yard	9,226,073.08	8.46
203-00061	Embankment Material (Complete In Place)	462	Ton	18,480.00	40.00
203-00062	Embankment Material (Complete In Place) (Special)	23,942	Cubic Yard	619,369.48	25.87

BID # 5913-13

SEPTEMBER 2013 FLOOD CONSTRUCTION SERVICES TO REPAIR SECTIONS OF THE ST. VRAIN CREEK

BID TABULATION SHEET FOR BREACHED SECTIONS 1, 2 AND 7

ITEM	ITEM	UNIT	EST.	UNIT	TOTAL
NO.	DESCRIPTION		QTY.	COST	COST
All Br	eached Sections and Sediment Removal Area				1
1	Mobilization and Preparatory Work	L.S.	1		\$ 5,000.00
2	Access Route Preparation	L.S.	1		-
3	Erosion and Sediment Control	L.S.	1		\$ 2,500.00
Breach	ned Section 1				
4	Incidental Excavation of Woody Materials and Soil Deposited by Flooding to Facilitate Repairs	C.Y.	200		-
5*	Stream Bank Breach Repair (1200 linear feet Berm)	C.Y.	2,400	\$ 3.75	\$ 9,000.00
6*	Import and Install 12" Clay Cap on Berm	C.Y.	1,200	\$ 7.50	\$ 9,000.00
7*	Install Type M Rip Rap	C.Y.	450	\$76.77	\$ 34,546.50
Breach	hed Section 2				
8	Water Control and Dewatering	L.S.	1		_
9	Incidental Excavation of Woody Materials and Soil Deposited by Flooding to Facilitate Repairs	C.Y.	300	\$ 3.33	\$ 999.00
10	Import and Mix Clay into Bank Repair	C.Y.	740	\$12.00	\$ 8,880.00
11	Stream Bank Breach Repair (100 linear feet)	C.Y.	925	\$ 9.38	\$ 8,676.50
12	Install Type M and H Rip Rap	C.Y.	60	\$76.77	\$ 4,606.20
Breach	ned Section 7				
13	Stream Bank Breach Repair (135 linear feet)	C.Y.	910	\$ 9.38	\$ 8,535.80
14	Import and Install 12" Clay Cap on Breach Fill	C.Y.	230	\$12.00	\$ 2,760.00
15	Install Type M Rip Rap	C.Y.	70	\$76.77	\$ 5,373.90
Sedim	ent Removal Area				
16*	Unclassified Excavation (removal of sediments deposited by flooding from stream channel)		9,450	\$ 3.12	\$29,484.00
17*	Haul Sediments to Designated Sites (within 5 miles)	C.Y.	6,450	\$ 6.40	\$41,280.00
Bank S	Stabilization Area				and and a second se
18	Unclassified Excavation (shaping the eroded bank)	C.Y.	200	\$ 9.38	\$ 1,876.00
19	Install Type M and H Rip Rap	C.Y.	200	\$76.77	\$15,354.00
			PROJE	CT TOTAL	\$187,871.90

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CAP Excauating

BID # 6050-14

SEPTEMBER 2013 FLOOD CONSTRUCTION SERVICES FOR SOUTH BRANCH DITCH RESTORATION

BID SCHEDULE

PAY	PAY ITEM	UNIT	TOTAL	UNIT	TOTAL
NO.	DESCRIPTION		QTY.	PRICE	COST
1	Mobilization/Demobilization/Restoration	L.S.	1		
2	Clearing and Grubbing	L.S.	1	\$2,500.00	\$ 2,500.00
3	Debris Removal and Disposal	CY	200	\$2,000.00	\$_2,000.00
4	Access Route Establishment and Restoration	LS	1	\$ 25.00	\$_5,000.00
5	Water Control	1.5		\$_200.00	\$200.00
2	Strin Staaknila and Diago Tonsail	C.V.	100	\$2,600.00	\$ 2,600.00
0	Strip, Stockpile and Place Topson	C. Y.	100	\$ 1.00	\$ 100.00
7	Base Embankment Fill	C.Y.	21,000	\$ 10.05	\$220 050 00
8	Ditch Lining Embankment Fill	C.Y.	1,000	<u>\$ 10,95</u>	\$229,950.00
9	Unclassified Fill	C.Y.	100	<u>\$ 16.00</u>	\$ 16,000.00
10	Construction Materials Testing	L.S.	1	\$ 27.00	\$ 2,700.00
11	Grading	L.S.	1	\$3,500.00	\$_3,500.00
12	24 Inch Diameter PCP	I E	240	\$ 100.00	\$ 100.00
12	24-men Dianeter Ker	L.F.	240	\$ 58.10	\$ 13,944.00
13	24-Inch Diameter FES	Each	4	¢ 907.00	¢ 0.000.00

BID TOTAL \$281,822.00

COST ESTIMATING & EQUIPMENT RENTAL RATE GUIDE

NEW CONSTRUCTION

APRIL 2011



PREPARED BY PROJECT . MANAGEMENT & DESIGN GROUP BOULDER COUNTY PARKS & OPEN SPACE

Curbing (Complete in Place)		
Stone (red sandstone)	25/lf	65/lf
Timber (6 x 8)	40/lf	
Earthwork		
Grading/blading		105/hr
Hauling (12 yd truck) (20 yd semi)	5/ton 4.50/ton	6/ton 5/ton
Imported Fill	7.50/ton	20/ton
Potholing		160/hr
Rip-rap	55/cy	85/cy
Topsoil (place)		13/ton
Topsoil (strip & stockpile)		7/ton
Unclassified Excavation (Complete in Place)		19/cy
Erosion Control & Revegetation		
Erosion Control		
Check Dam (6 in -9 in rock)		175/ea
Check Dam (straw bales)		18/bale
Concrete washout		620/ea
Erosion Control Blanket (biodegradable coconut fibers/jute netting)		2/sy
Silt Fence		1.50/lf
Stabilized Construction Entrance (vehicle track pad 12'x40')		975/ea
Wattles (12 in)		4.40/lf
Wattles (18 in)		5.30/lf
Revegetation		
Drill seeding (small acreage)		190/ac
Drill seeding (large acreage)		130/ac
Cost Estimating & Rental Equipment Guide 7114/2011		Page 6 of 12

Straw Mulch(crimped & weed free)		550/ac
Fencing & Gates		
Fencing		
Construction Fencing (orange plastic)	2.08/16	1.65/lf
Comer Brace (wire fence)	90/ea	295/ea
End Brace (wire fence)	65/ea	205/ea
High Tensile Fence (10 strand)		3/1f
Post and Dowel (2 rail)	5/1f	7/lf
Post and Dowel (3 rail)	7/11	12/11
Prairie Dog Barrier (chicken wire attached to existing fence)		3/1f
Prairie Dog Barrier (steel panel)		24/lf
Prairie Dog Barrier installed on Gates (steel panel)		12/1f
Wire Fence-Barbed 5 strand (mountains)	1.25/lf	6/1f
Wire Fence-Barbed 5 strand (Plains)	1.23/lf	2.75/11
Wire Fence-Smooth 5 strand (Plains)	1.15/1f	2.75/lf
Worm (Lodgepole Pine)	24/lf	40/lf
Bollards & Gates		
Bollards		
2" Steel Tube Livestock (4 ft)	85/ca*	135/ea*
2" Steel Tube Livestock (6ft)	95/ea*	145/ea*
2" Steel Tube Livestock (8 ft)	105/ea*	165/ea*
2" Steel Tube Livestock (10ft)	125/ea*	175/ea*
2" Steel Tube Livestock (12ft)	140/ea*	190/ea*
2" Steel Tube Livestock (16 ft)	· 180/ea*	225/ea*
Steel Pipe		
Wire Drop with closer (12ft - 16ft)	50/ea*	100/ea*

CostWorks 2013 - L	ostWorks 2013 - Lake 2 & 3 Dredging									
Qty CSI Number	Description	Crew	Daily Output	Labor Hours	Unit	Bare Mat.	Bare Labor	Bare Equip.	Total	Total Incl. O&P
20.000 31 23 1920 1100	0 Dewatering, pumping, 8 hr., attended 8 hours per	B10K	. 1	8	Day	0.00	5,580.00	7,100.00	12,680.00	17,100.00
1 :	day, 6" centrifugal pump, includes 20 L.F. of		I							
	suction hose and 100 L.F. of discharge hose									
20.000 31 23 1920 1120	Dewatering, pumping, 8 hr., attended 8 hours per	•	•		Day	0.00	0.00	6,400.00	6,400.00	7,100.00
	day, 6" centrifugal pump, includes 20 L.F. of				:	l.				
	suction hose and 100 L.F. of discharge hose, add	1 1	1	1				·		
L	for additional pump		1			·			-	
	Totals	,		1		\$0.00	\$5,580.00	\$13,500.00	\$19,080.00	\$24,200.00

VALIDATION OF LUMP SUM WATER CONTROL / DEWATERING COST

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*map for illustrative purposes only



Lake #4 - Western Mobile Shoreline Restoration *map for illustrative purposes only



2,000 Feet

Lake #4 - Instrmentation Photos

