ABOUT THE APPLICANT

Name: Gunnison County		
Mailing Address: 200 E Virginia, Suite 104, Gunnison, CO		
Applicant Contact Name: Matthew Birnie/ Marlene Crosby		Title: County Manager/ Public Works Director
Telephone: 970-641-0044	Email: mcrosby@gunnisoncounty.org	Are you the primary contact for this grant: X YES NO
Do you currently have an open GOCO grant? If yes, provide your grant number(s): No And, you are required to contact staff prior to completion of this application.		

ABOUT THE PROJECT

Project Title: Gunnison Whitewater Park Repair	
Grant Request (not to exceed $350,000): $325,000	Total Project Cost: $468,260
Percent of overall match (% of total project cost): 30.59%	Percent of cash match (% of total project cost): 10.9%
County of Service: Gunnison County	City (location of project, including cross streets): ½ Mile West of Gunnison, South of Hwy 50, North or Gold Basin Road

Brief Project Description:

This fall, Gunnison County staff identified several issues with two of the existing whitewater features at the Gunnison Whitewater Park. In light of these issues McLaughlin Whitewater Design Group was retained to evaluate the features, identify any structural damage and provide recommendations to repair any deficiencies. They found significant structural damage in both structure 2 and 3 which includes the high probability of complete structure failure in the near future as well as significant safety issues caused by the erosion of the existing features in the immediate term. The Park has become one of the most heavily used assets in the Gunnison Valley. It was created to provide activities for a variety of users including fishermen, kayakers, rafters, swimmers and those who simply enjoy relaxing near the river. During the summer months the Park attracts hundreds of users from all ages and demographics. The Park consists of two boat ramps, a trail system and three whitewater structures that enable "play spots" for recreational boaters. In addition, it is host every year to the Gunnison River Festival which brings in boaters and spectators from all around the region to participate in activities revolving around our River ecosystems. The uses in the Park also helped secure a Recreational Inflow Water Right for the Gunnison River Basin. In an effort to save one of the Gunnison Valley's most treasured amenities we are seeking funding to make the necessary repairs to the Park structures to ensure its functionality and safety for years to come.

APPLICATION CHECKLIST

Verify that this application contains all of the following required documents and the application **is in this order**:

- ❑ Signed Resolution from Governing Body
- ❑ Draft Intergovernmental Agreement, or other contract with the project partner or a signed letter of support from project partner (if necessary)
- ❑ Completed Environmental Checklist
- ❑ Budget Form
- ❑ Preliminary Timeline Estimate
- ❑ Response to Selection Criteria Questions (a narrative provided on your own paper)
- ❑ Attachments to Selection Criteria:
  - ❑ Map(s) identifying the project location (Using Google Earth or Google Maps)
  - ❑ Site map
  - ❑ Letters of support
  - ❑ Local youth or Youth Corps support letter/email
  - ❑ Photos of existing amenities to be replaced, if applicable
  - ❑ Documentation of any opposition to the project, if applicable

By signing below, the applicant certifies that it owns, leases, or otherwise has control over the property on which this project will be completed (collectively, "Control") (or is applying on behalf of an entity that has such Control). Applicant has on file documentation evidencing its Control of the property and will provide such documentation to GOCO on request.

Authorized Signature: _____ Date: _____

Printed Name and Title: _____

Resolution of Support

BOARD OF COUNTY COMMISSIONERS
OF THE COUNTY OF GUNNISON, COLORADO
RESOLUTION NO. 2014-25

A RESOLUTION SUPPORTING THE GRANT APPLICATION FOR A LOCAL PARKS AND OUTDOOR RECREATION GRANT FROM THE STATE BOARD OF THE GREAT OUTDOORS COLORADO TRUST FUND FOR THE GUNNISON COUNTY WHITE WATER PARK

WHEREAS, the Board of County Commissioners of the County of Gunnison, Colorado ("Gunnison County") supports the Great Outdoors Colorado grant application for the repair of existing structures in the Gunnison County White Water Park.

WHEREAS, Gunnison County has requested $350,000 from Great Outdoors Colorado to repair existing structures in the Gunnison County White Water Park.

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF GUNNISON COUNTY, COLORADO THAT:

Section 1: The Board of County Commissioners of Gunnison County, Colorado strongly supports the grant application and has appropriated up to $100,000 in matching funds for a grant with Great Outdoors Colorado. This anticipates a total project cost of approximately $616,000.

Section 2: The Board of County Commissioners of Gunnison County, Colorado authorizes the expenditure of funds necessary to meet the terms and obligations of any Grant awarded.

Section 3: The project site is owned by Gunnison County and will be owned by Gunnison County for the next 25 years.

Section 4: The Board of County Commissioners of Gunnison County, Colorado will continue to maintain the Gunnison County White Water Park in a high quality condition and will appropriate funds for maintenance in its annual budget, as necessary.

Section 5: This resolution to be in full force and effect from and after its passage and approval.

INTRODUCED by Commissioner Houck, seconded by Commissioner Chamberlain, and adopted this 26th day of August, 2014.

BOARD OF COUNTY COMMISSIONERS
OF THE COUNTY OF GUNNISON, COLORADO

By _____
Paula Swenson, Chairperson

By _____
Phil Chamberland, Vice Chairperson

By _____
Jonathan Houck, Commissioner

ATTEST:

_____
Deputy County Clerk

GUNNISON COUNTY SEAL COLORADO

S Dominguez Gunnison County, CO
2/19/2014 12:51:17 PM
447

BOARD OF COUNTY COMMISSIONERS
OF THE COUNTY OF GUNNISON, COLORADO
RESOLUTION NO. 2014-08

A RESOLUTION SUPPORTING THE GRANT APPLICATION FOR A LOCAL PARKS AND OUTDOOR RECREATION GRANT FROM THE STATE BOARD OF THE GREAT OUTDOORS COLORADO TRUST FUND FOR THE GUNNISON COUNTY WHITE WATER PARK

WHEREAS, the Board of County Commissioners of the County of Gunnison, Colorado ("Gunnison County") supports the Great Outdoors Colorado grant application for the repair of existing structures in the Gunnison County White Water Park.

WHEREAS, Gunnison County has requested $350,000 from Great Outdoors Colorado to repair existing structures in the Gunnison County White Water Park.

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF GUNNISON COUNTY, COLORADO THAT:

Section 1: The Board of County Commissioners of Gunnison County, Colorado strongly supports the grant application and has appropriated $35,000 in matching funds for a grant with Great Outdoors Colorado.

Section 2: The Board of County Commissioners of Gunnison County, Colorado authorizes the expenditure of funds necessary to meet the terms and obligations of any Grant awarded.

Section 3: The project site is owned by Gunnison County and will be owned by Gunnison County for the next 25 years.

Section 4: The Board of County Commissioners of Gunnison County, Colorado will continue to maintain the Gunnison County White Water Park in a high quality condition and will appropriate funds for maintenance in its annual budget, as necessary.

Section 5: This resolution to be in full force and effect from and after its passage and approval.

INTRODUCED by Commissioner Houck, seconded by Commissioner Chamberlard and adopted this 18th day of February 2014.

BOARD OF COUNTY COMMISSIONERS OF
THE COUNTY OF GUNNISON, COLORADO

By _____
Paula Swenson, Chairperson

By _____
Phil Chamberland, Vice Chairperson

By _____
Jonathan Houck, Commissioner

GUNNISON COUNTY SEAL COLORADO

ATTEST:

_____
Deputy County Clerk

Environmental Checklist

COLORADO PARKS & WILDLIFE

300 W NEW YORK • GUNNISON, CO 81230
Phone (970) 641-7060 • FAX (970) 641-7883
wildlife.state.co.us • parks.state.co.us

March 1, 2014
Great Outdoors Colorado
ATTN: Local Government Program
303 E. 17th Avenue, Suite 1060
Denver, CO 80203

RE: Gunnison Whitewater Park Project Proposal

To Whom It May Concern,

The intent of this letter is to discuss potential impacts to wildlife and wildlife recreation that may arise from the proposed structural repairs to the existing whitewater features at the Gunnison Whitewater Park and to provide information to complete the Environmental Checklist in the Great Outdoors Colorado grant application. Colorado Parks and Wildlife (CPW) appreciates the opportunity to comment on this proposal. The Whitewater Park located just west of the city of Gunnison encompasses an approximate ¼ mile section of the Gunnison River that was developed in two phases in 2002 and 2011. Due to structural and hydraulic issues associated with the structure Gunnison County is proposing that improvements be made to sustain future use and function of the site. This site provides critical habitat for aquatic species on an annual and seasonal basis, and is utilized by terrestrial species as well. CPW acknowledges Gunnison County's desire to maintain this important recreational site and offers the following comments:

1. **Species of Concern.**

Kokanee salmon are the aquatic species of greatest concern to CPW with any future development or modification of the Whitewater Park. This fishery in the Gunnison River is of the highest priority for CPW. (See sections 2-4.)

CPW believes that there will be minimal impact to terrestrial wildlife due to the site location and its proximity to established development. There are currently no species on the Federal Threatened or Endangered Species List present or known to utilize this site. This site is potentially within the habitat range of the western yellow-billed cuckoo which is a candidate species for listing. There is no indication that there would be any negative impact to the western yellow-billed cuckoo stemming from the completion of this project. Other species that may potentially be present and are considered to be State Special Concern species include bald eagle and river otter. River otters are not currently known to occupy this section of the river and should be minimally impacted with the proposed improvements.

STATE OF COLORADO
John W. Hickenlooper, Governor • Mike King, Executive Director, Department of Natural Resources
Rick D. Cables, Director, Colorado Parks and Wildlife
Parks and Wildlife Commission: David R. Brougham • Gary Butterworth, Vice-Chair • Chris Castilian
Dorothea Farris • Tim Glenn, Chair • Allan Jones • Bill Kane • Gaspar Perricone • Jim Pribyl • John Singletary
Mark Smith, Secretary • Robert Streeter • Lenna Watson • Dean Wingfield
Ex Officio Members: Mike King and John Salazar

2. **Habitat Value.** How important, productive, or pristine is the wildlife habitat in the project area?

This project modifies existing whitewater park features, which are already shaping available habitat for aquatic species. The project reach is important seasonally for migrating kokanee salmon. Other species present within the project reach include brown and rainbow trout, white and longnose sucker and longnose dace. Trout habitat contained within the project reach is utilized by resident trout and includes limited installed trout habitat features. Existing whitewater park features likely limit functional resident trout habitat due to excessive stream velocities, complex pool hydraulics i.e., surging, limited velocity refuges, loss of riffle habitat, and barriers to some life stages of trout, sucker, and dace.

3. **Potential Impacts.** In what ways will the project have, or potentially have, an impact on wildlife?

Since the primary project goal is to modify existing water park structures, it is unlikely that the project would further degrade habitat for resident fish species, but modification of structures could have potential to improve conditions for aquatic species, depending on final design components. However, modifications to the existing structures that result in a significant depth or velocity barrier to adult kokanee would significantly impact Colorado's kokanee salmon program. The Gunnison River constitutes the state's largest kokanee run, providing up to 86 percent and averaging 65 percent of the state's egg supply each year. Colorado is dependent on spawn-take operations and on annual supplemental stocking to maintain populations as natural kokanee reproduction is very limited in most of our state. Statewide, kokanee support an estimated 29 million dollars worth of economic input to the state's economy through angling based recreation. At Blue Mesa alone, the kokanee program brings an estimated 8 million dollars into the local and state economy.

Kokanee exhibit a unique life history, returning to natal areas to spawn and reproduce. Each fall kokanee migrate upstream, generally beginning in late July and continuing through October. These fall kokanee migrations allow efficient capture of migrating adults, allowing CPW personnel to spawn kokanee and bring kokanee eggs into state hatcheries to hatch, raise, and restock kokanee fry the following spring.
. In the Gunnison Basin, kokanee migrate from Blue Mesa Reservoir to the Roaring Judy State Fish hatchery, located on the East River 3 miles north of the town of Almont, where eggs are taken for restocking needs.

STATE OF COLORADO
John W. Hickenlooper, Governor • Mike King, Executive Director, Department of Natural Resources
Rick D. Cables, Director, Colorado Parks and Wildlife
Parks and Wildlife Commission: David R. Brougham • Gary Butterworth, Vice-Chair • Chris Castilian
Dorothea Farris • Tim Glenn, Chair • Allan Jones • Bill Kane • Gaspar Perricone • Jim Pribyl • John Singletary
Mark Smith, Secretary • Robert Streeter • Lenna Watson • Dean Wingfield
Ex Officio Members: Mike King and John Salazar

Construction activities that create height or velocity barriers or significant sediment releases during the fall kokanee migration can disrupt this important "run" of kokanee to Roaring Judy . This could impact numbers of kokanee eggs obtained from spawning operations in 2014 and numbers of kokanee available for restocking by CPW in 2015.

4. **Mitigation.** How will these impacts be addressed?

As the preliminary and final design for reconstruction of structures 2 and 3 are developed, incorporation of design components that allow for kokanee passage will mitigate potential impacts to Colorado's kokanee program and allow for maintenance of the Blue Mesa Reservoir kokanee fishery. Coordination and consultation with CPW early in the design process is recommended to insure kokanee passage is incorporated into project design.

Water park features that include improved fish passage in the final designs may improve conditions for resident fish species. Opportunities may also exist to improve trout habitat on a more limited basis with inclusion of fisheries habitat features adjacent to water park features, where appropriate.

Potential impacts to the fall kokanee migration and statewide egg supply can be mitigated by completing major construction activities after kokanee run has tapered off (November 1st).

5. **Benefit.**

Completion of this project will have the greatest benefits to river recreation users (kayakers, rafters, etc) with a secondary benefit to wildlife recreation users. The close proximity of this site to the city of Gunnison will ensure the continued use of a "put in" and "take out" site for float fisherman and provide opportunity for bank fisherman as well.

This project has the potential to perpetuate this kokanee salmon population of statewide importance, benefit the trout fishery and enhance wildlife-related recreation if CPW is actively engaged in the design of whitewater features. We believe that some design changes could result in whitewater features with extended or additional benefits. Specifically:

- This project has potential to benefit the Gunnison River fishery if water park features #2 and #3 could be designed to improve juvenile trout passage.

STATE OF COLORADO
John W. Hickenlooper, Governor • Mike King, Executive Director, Department of Natural Resources
Rick D. Cables, Director, Colorado Parks and Wildlife
Parks and Wildlife Commission: David R. Brougham • Gary Butterworth, Vice-Chair • Chris Castilian
Dorothea Farris • Tim Glenn, Chair • Allan Jones • Bill Kane • Gaspar Pericone • Jim Pribyl • John Singletary
Mark Smith, Secretary • Robert Streeter • Lenna Watson • Dean Wingfield
Ex Officio Members: Mike King and John Salazar

Minimization of surging conditions below whitewater park features during key time periods would also benefit the resident trout fishery.

- Installation of a new feature, a counter weir below the water park feature #3 could benefit kokanee and resident fish by improving passage for those species. This feature could reduce the height of the hydraulic jump at feature #3 and could insure that the drop does not become more significant over time with degradation of the feature's tailwater.
- There may be some opportunities for wildlife education programs.

CPW encourages the project proponents to include CPW staff input in the final design phases and will offer assistance, as available, during the construction phase. , Wildlife impact monitoring by CPW personnel will be necessary to document unobstructed passage for migrating kokanee salmon and resident trout.

Thank you for the opportunity to comment on this proposal. If you have any questions, please contact me at: CPW Gunnison Service Center, 300 W. New York Ave, Gunnison, CO 81230, or by calling (970) 641-7060 or at email: j.wenum@state.co.us.

Sincerely,

Nick J Gallowich

For J Wenum
Area Wildlife Manager-Gunnison

Cc: Nick Gallowich, DWM Gunn. East
Dan Brauch, Aquatic Biologist
Brandon Diamond, Terrestrial Biologist
Nathan Seward, Conservation Biologist
Patt Dorsey, SW Region Manager

STATE OF COLORADO
John W. Hickenlooper, Governor • Mike King, Executive Director, Department of Natural Resources
Rick D. Cables, Director, Colorado Parks and Wildlife
Parks and Wildlife Commission: David R. Brougham • Gary Butterworth, Vice-Chair • Chris Castilian
Dorothea Farris • Tim Glenn, Chair • Allan Jones • Bill Kane • Gaspar Perricone • Jim Pribyl • John Singletary
Mark Smith, Secretary • Robert Streeter • Lenna Watson • Dean Wingfield
Ex Officio Members: Mike King and John Salazar

Project Budget

	Source of Funds	Date Secured	GOCO Grant Request	Applicant Match ($)	Partner Match ($)	Amount of CTF Funds ($)	Total Funding ($)
CASH							
	Great Outdoors Colorado		**$325,000.00**				$325,000.00
	Gunnison County	2/14/2014		$35,000.00			$35,000.00
	Gunnison River Festival	2/6/2014			$5,000.00		$5,000.00
	Western State Colorado University	1/15/2014			$3,000.00		$3,000.00
	City of Gunnison	2/14/2014			$3,000.00		$3,000.00
	1% For Open Space	2/26/2014			$5,000.00		$5,000.00
	TOTAL CASH CONTRIBUTIONS		**$325,000.00**	**$35,000.00**	**$16,000.00**	**$0.00**	**$376,000.00**
IN-KIND							
	Gunnison County	2/14/2014		90,200.00			$90,200.00
	City of Gunnison	1/25/2014			60.00		$60.00
TOTAL SOURCE OF FUNDS			**$325,000.00**	**$125,200.00**	**$16,060.00**	**$0.00**	**$466,260.00**

CASH	Use of Funds	Number of Units	Cost Per Unit	Total Funding ($)
Planning and Design				
McLaughlin Whitewater Design Group	**Complete engineering and design of whitewater park repairs including drawings, specifications and bid documents**	1.00	50,000.00	$50,000.00
Topographic Survey & Mapping				
Alpine Surveying	**Complete topographic and bathymetric survey of river and provide site base mapping**	1.00	10,000.00	$10,000.00
Permitting				
Bio-Environs	**Prepare permit applications, permit fees, and obtain required approvals**	1.00	4,000.00	$4,000.00
Whitewater Park Repairs - Construction				
Mobilization	**Mobilization of equipment and labor, bonding, insurance, and costs associated with project start-up generally 5% of total construction value as a lump sum**	1.00	12,000.00	$12,000.00
Construction Site Access	**Temporary access to the river and stockpile/staging areas as a lump sum**	1.00	5,000.00	$5,000.00
Erosion & Sediment Control	**Implement a Stormwater Pollution Prevention Plan (SWMP) to control erosion of areas disturbed by construction activity - silt fence, waddles, concrete washout area, and site restoration as a lump sum**	1.00	7,500.00	$7,500.00

Budget

Water Contr Diversion/Dewatering	**Control of surface and subsur e water during construction - temporary cof am, sumps, pumping, sediment basin as a lump sum**	1.00	65,000.00	$65,000.00
Demolition of Whitewater Structures	**Partial demolition and removal of boulders and grout in existing whitewater structures as a lump sum**	1.00	5,000.00	$5,000.00
Earthwork - Cut w/ Haul & Disposal Off Site	**Excavation of soil & disposal - loader, trucking & exvacator equipment time excluded (in-kind) - measured in cubic yards**	600.00	2.25	$1,350.00
Earthwork - Fill On Site	**Excavation of soil, placement of fill on site with compaction - excavator equipment time excluded (in-kind) - measured in cubic yards in place**	2,100.00	6.25	$13,125.00
Cutoff Structures - Rein. Polypropylene Liner	**Liner for whitewater features foundation cutoff measured in square feet installed**	3,000.00	3.50	$10,500.00
Boulders - Imported	**Boulder handling, loading, hauling, sorting, subgrade preparation, placements and preparation for grouting - loader, trucking, excavator equipment time & boulder material cost excluded (in-kind) - measured by cubic yard installed**	450.00	54.00	$24,300.00
Boulders - Harvested On Site	**Harvesting of boulders on site, loading, hauling, sorting, subgrade preparation, placements and preparation for grouting measured in cubic yard installed**	375.00	60.00	$22,500.00
Grout	**Cement grout placement, pumping, finishing and cleanup measured in cubic yards installed**	200.00	220.00	$44,000.00
Pool Armoring - Type 'M' Riprap w/ River Cobbles	**Riprap mixed with native river cobbles to armoring pools downstream of whitewater structures - loader, trucking, excavator equipment time & riprap material cost excluded (in-kind) - measured in cubic yards installed**	600.00	32.00	$19,200.00
Channel Stabilization - Type 'M' Riprap w/ River Cobbles	**Riprap mixed with native river cobbles for channel stabilization downstream of Feature #3 - loader, trucking, excavator equipment time & riprap material cost excluded (in-kind) - measured in cubic yards installed**	200.00	32.00	$6,400.00
Tuning Phase	**Optimization of whitewater wave Feature #3 by minor modifications post construction - adding boulders, excavations, others as a lump sum**	1.00	10,000.00	$10,000.00
Construction Contingency	**Budget for unknowns encountered during construction, fluctuations in material, fuel, equipment, and labor costs**	1.00	45,000.00	$45,000.00
Construction & Tuning Phase Services				

McLaughlin Whitewater Design Group	**Professional services during construction including construction administration (RFI requests, request for information, submittal review, progress meetings), field inspection, tuning phase (performance evaluations, tuning recommendation, field inspections) and project closeout documentation**	1.00	21,125.00	$21,125.00
			USE OF FUNDS - CASH SUBTOTAL	**$376,000.00**

IN-KIND	**Use of Funds**	**No. of Units / Hours**	**Cost Per Unit / Hour**	**Total Funding ($)**
Professional Services				
JM Consulting	Grant Writing/ Research	80.00	25.00	$2,000.00
City of Gunnison	Meeting Space	1.00	60.00	$60.00
Materials				
Boulders - Gunnison County	Boulder materials will be provided to the project by	450.00	50.00	$22,500.00
Riprap - Gunnison County	Riprap materials will be provided to the project by	800.00	30.00	$24,000.00
Equipment				
Hauling of Materials	Gunnison County will provide dump trucks to supply boulders and riprap to the site and to haul off excess materials	160.00	85.00	$13,600.00
Loading of Materials	Gunnison County will provide loaders to supply	80.00	95.00	$7,600.00
Excavation & Placement	Gunnison County will provide the excavator to excavate	150.00	150.00	$22,500.00
			USE OF FUNDS - IN-KIND SUBTOTAL	**$92,260.00**
			TOTAL PROJECT COST	**$468,260.00**

CALCULATION OF MATCH REQUIREMENTS

Item	**Explanation**	**Requirement**	**Actual**	**Meets Req?**	**GOCO's % of TC**
Minimum Total Match	30%/Total Costs	$140,478	$141,260	Yes	
Minimum Cash Match	10%/Total Costs	$46,826	$51,000	Yes	
GOCO % of Total Costs					69.41%

Project Budget

	Source of Funds	Date Secured	GOCO Grant Request	Applicant Match ($)	Partner Match ($)	Amount of CTF Funds ($)	Total Funding ($)
CASH							
	Great Outdoors Colorado		**$325,000.00**				$325,000.00
	Gunnison County	2/14/2014		$35,000.00			$35,000.00
	Gunnison River Festival	2/6/2014			$5,000.00		$5,000.00
	Western State Colorado University	1/15/2014			$3,000.00		$3,000.00
	City of Gunnison	2/14/2014			$3,000.00		$3,000.00
	1% For Open Space	2/26/2014			$5,000.00		$5,000.00
	TOTAL CASH CONTRIBUTIONS		**$325,000.00**	**$35,000.00**	**$16,000.00**	**$0.00**	**$376,000.00**
IN-KIND							
	Gunnison County	2/14/2014		90,200.00			$90,200.00
	JM Consulting	1/5/2014			2,000.00		$2,000.00
	City of Gunnison	1/25/2014			60.00		$60.00
TOTAL SOURCE OF FUNDS			**$325,000.00**	**$125,200.00**	**$18,060.00**	**$0.00**	**$468,260.00**

CASH	Use of Funds	Number of Units	Cost Per Unit	Total Funding ($)
Planning and Design				
McLaughlin Whitewater Design Group	**Complete engineering and design of whitewater park repairs including drawings, specifications and bid documents**	1.00	50,000.00	$50,000.00
Topographic Survey & Mapping				
Alpine Surveying	**Complete topographic and bathymetric survey of river and provide site base mapping**	1.00	10,000.00	$10,000.00
Permitting				
Bio-Environs	**Prepare permit applications, permit fees, and obtain required approvals**	1.00	4,000.00	$4,000.00
Whitewater Park Repairs - Construction				
Mobilization	**Mobilization of equipment and labor, bonding, insurance, and costs associated with project start-up generally 5% of total construction value as a lump sum**	1.00	12,000.00	$12,000.00
Construction Site Access	**Temporary access to the river and stockpile/staging areas as a lump sum**	1.00	5,000.00	$5,000.00
Erosion & Sediment Control	**Implement a Stormwater Pollution Prevention Plan (SWMP) to control erosion of areas disturbed by construction activity - silt fence, waddles, concrete washout area, and site restoration as a lump sum**	1.00	7,500.00	$7,500.00

Water Contr' 'Diversion/Dewatering	**Control of surface and subsur' ' water during construction - temporary cofi m, sumps, pumping, sediment basin as a lump sum**	1.00	65,000.00	$65,000.00
Demolition of Whitewater Structures	**Partial demolition and removal of boulders and grout in existing whitewater structures as a lump sum**	1.00	5,000.00	$5,000.00
Earthwork - Cut w/ Haul & Disposal Off Site	**Excavation of soil & disposal - loader, trucking & exvacator equipment time excluded (in-kind) - measured in cubic yards**	600.00	2.25	$1,350.00
Earthwork - Fill On Site	**Excavation of soil, placement of fill on site with compaction - excavator equipment time excluded (in-kind) - measured in cubic yards in place**	2,100.00	6.25	$13,125.00
Cutoff Structures - Rein. Polypropylene Liner	**Liner for whitewater features foundation cutoff measured in square feet installed**	3,000.00	3.50	$10,500.00
Boulders - Imported	**Boulder handling, loading, hauling, sorting, subgrade preparation, placements and preparation for grouting - loader, trucking, excavator equipment time & boulder material cost excluded (in-kind) - measured by cubic yard installed**	450.00	54.00	$24,300.00
Boulders - Harvested On Site	**Harvesting of boulders on site, loading, hauling, sorting, subgrade preparation, placements and preparation for grouting measured in cubic yard installed**	375.00	60.00	$22,500.00
Grout	**Cement grout placement, pumping, finishing and cleanup measured in cubic yards installed**	200.00	220.00	$44,000.00
Pool Armoring - Type 'M' Riprap w/ River Cobbles	**Riprap mixed with native river cobbles to armoring pools downstream of whitewater structures - loader, trucking, excavator equipment time & riprap material cost excluded (in-kind) - measured in cubic yards installed**	600.00	32.00	$19,200.00
Channel Stabilization - Type 'M' Riprap w/ River Cobbles	**Riprap mixed with native river cobbles for channel stabilization downstream of Feature #3 - loader, trucking, excavator equipment time & riprap material cost excluded (in-kind) - measured in cubic yards installed**	200.00	32.00	$6,400.00
Tuning Phase	**Optimization of whitewater wave Feature #3 by minor modifications post construction - adding boulders, excavations, others as a lump sum**	1.00	10,000.00	$10,000.00
Construction Contingency	**Budget for unknowns encountered during construction, fluctuations in material, fuel, equipment, and labor costs**	1.00	45,000.00	$45,000.00
Construction & Tuning Phase Services				

McLaughlin Whitewater Design Group	**Professional services during construction including construction administration (RFIs, requests, request for information, submittal review, progress meetings), field inspection, tuning phase (performance evaluations, tuning recommendation, field inspections) and project closeout documentation**	1.00	21,125.00	$21,125.00
			USE OF FUNDS - CASH SUBTOTAL	**$376,000.00**

IN-KIND	**Use of Funds**	**No. of Units / Hours**	**Cost Per Unit / Hour**	**Total Funding ($)**
Professional Services				
JM Consulting	Grant Writing/ Research	80.00	25.00	$2,000.00
City of Gunnison	Meeting Space	1.00	60.00	$60.00
Materials				
Boulders - Gunnison County	Boulder materials will be provided to the project by	450.00	50.00	$22,500.00
Riprap - Gunnison County	Riprap materials will be provided to the project by	800.00	30.00	$24,000.00
Equipment				
Hauling of Materials	Gunnison County will provide dump trucks to supply boulders and riprap to the site and to haul off excess materials	160.00	85.00	$13,600.00
Loading of Materials	Gunnison County will provide loaders to supply	80.00	95.00	$7,600.00
Excavation & Placement	Gunnison County will provide the excavator to excavate	150.00	150.00	$22,500.00
			USE OF FUNDS - IN-KIND SUBTOTAL	**$92,260.00**
			TOTAL PROJECT COST	**$468,260.00**

CALCULATION OF MATCH REQUIREMENTS

Item	**Explanation**	**Requirement**	**Actual**	**Meets Req?**	**GOCO's % of TC**
Minimum Total Match	30%/Total Costs	$140,478	$143,260	Yes	
Minimum Cash Match	10%/Total Costs	$46,826	$51,000	Yes	
GOCO % of Total Costs					69.41%

Gunnison Whitewater Park Repairs Timeline

TASK	Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun ' 15	Jul '15	Aug '15	Sep '15
Public Process																
Preliminary Design																
Permit Applications																
Grant Notification																
Final Design & Specifications																
Obtain Permits & Approvals																
Bid Documents Release to Contractors																
Contractor Selection																
Begin Construction																
Construction of Whitewater Repairs																
Construction Completed																
Post-Construction Whitewater Tuning Phase																
Grand Opening																
Final Report to GOCO																

Timeline

Narrative

1. Describe the community/neighborhood the project will serve. (If the project is designed to serve a particular neighborhood or population within a larger city/subdivision/community, focus on the neighborhood/population to be served.) Include population, income data and insight into the recreational interests of the community. ***(5pts.)***

The Gunnison Whitewater Park, created in 2002, has become one of the most heavily used and promoted community assets in the Gunnison Valley. The Gunnison River is in many ways the lifeblood of the Gunnison Valley and the Gunnison Whitewater Park was created to provide activities for a variety of users including fishermen, kayakers, rafters, swimmers and those who simply enjoy relaxing on the features and park that was created. These users include both visitors to the area as well as residents of the Gunnison Valley which includes the City of Gunnison, unincorporated Gunnison County, the Town of Crested Butte and many smaller nearby communities.

The City of Gunnison, the County Seat of Gunnison County and home to Western State Colorado University, is centrally located in the State of Colorado, 200 miles from Denver and 180 miles from Colorado Springs. According to US Census Data, there are 5,409 people, 2,083 households, and 904 families residing in the city. There are 2,083 households out of which 21.1% had children under the age of 18 living with them, 32.3% are married couples living together, 7.6% have a female householder with no husband present, and 56.6% are non-families. 32.8% of all households are made up of individuals and 6.9% have someone living alone who was 65 years of age or older. The average household size is 2.17 and the average family size is 2.83. In the city the population is spread out with 15.1% under the age of 18, 39.0% from 18 to 24, 24.9% from 25 to 44, 13.6% from 45 to 64, and 7.5% who are 65 years of age or older. The median age is 24 years. The median income for a household in the city is $25,768, and the median income for a family is $41,761.

The Town of Crested Butte is located 28 miles north of the City of Gunnison. A former coal mining town now called "the last great Colorado ski town." Crested Butte is a destination for skiing, mountain biking, and a variety of other outdoor activities. According to US Census Data, there are 1,529 people, 692 households, and 253 families residing in the town. There are 692 households out of which 19.1% had children under the age of 18 living with them, 28.9% are married couples living together, 5.1% have a female householder with no husband present, and 63.3% are non-families. 28.3% of all households are made up of individuals and 1.4% have someone living alone who was 65 years of age or older. The average household size is 2.21 and the average family size is 2.69. In the town the population is spread out with 13.5% under the age of 18, 11.5% from 18 to 24, 55.6% from 25 to 44, 17.5% from 45 to 64, and 1.9% who are 65 years of age or older. The median age is 31 years. The median income for a household in the town is $41,250, and the median income for a family was $49,118.

Gunnison County is one of the largest counties in Colorado. The county rests in the Gunnison Basin formed by the Continental Divide to the east, Collegiate Peaks Wilderness rises in the northeast, Maroon Bells-Snowmass Wilderness and the White River National Forest to the north, the West Elk Wilderness rises in the west of the county with Delta and Montrose Counties on its western slopes. The Uncompahgre Wilderness rises in the southwest of the county and the Powderhorn Wilderness east of there and Saquache County being south of Gunnison county eastward over to Marshall Pass southeast of the county. According to US Census Data, there are 13,956 people, 5,649 households, and 2,965 families residing in the county. There are 5,649 households out of which 24.10% have children under the age of 18 living with them, 44.20% are married couples living together, 5.40% have a female householder with no husband present, and 47.50% are non-families. 27.20% of all households are made up of individuals and 4.60% have someone living alone who was 65 years of age or older. The average household size was 2.30 and the average family size was 2.84. In the county the population is spread out with 17.90% under the age of 18, 21.10% from 18 to 24, 32.90% from 25 to 44, 21.20% from 45 to 64,

and 6.90% who were 65 years of age or older. The median age is 30 years. The median income for a household in the county was $36,916, and the median income for a family was $51,950.

Recreation is an integral part of life for both residents of the Gunnison Valley as well as visitors. For many who live here it is the very reason for living in the community. River activities are a very important part of the recreational offerings of the Valley. Since its creation in 2002, the Gunnison Whitewater Park has become one of the most heavily utilized Parks in the Gunnison Valley. During the summer months the Park attracts hundreds of users from all ages and demographics. It's not uncommon for individuals and families to spend all day at the park, on the river or just enjoying the sun, socializing with neighbors and catching a quick dip to get cool. In addition, it is host every year to the very popular Gunnison River Festival which brings in hundreds of athletes and spectators from all around the region to participate in activities revolving around our River ecosystems.

2. Describe access to the proposed project. Is it accessible by trail? How is it situated in relation to where users live; how will users access it; is it near or linked to schools, other recreational amenities, or community gathering spots? Are there obstacles to getting to the project site; if so, how do you intend to overcome them? (Please provide a map sufficiently detailing where the project is located and what surrounds it. ***(5 pts.)***

The Gunnison Whitewater Park is located on the Gunnison River, ½ mile west of the City of Gunnison, south of State Highway 50 and west of Gold Basin Road on property owned and managed by Gunnison County (**Attachments A, B and G).** It is bordered by the Dos Rios Subdivision to the south and the Gunnison Water Treatment Plant to the north. East of the park is the end of the Gunnison/ Crested Butte Regional Airport property and to the west Park consists of two boat ramps, a trail system and three whitewater structures designed to create river flow hydraulics that enable "play spots" for recreational boaters. It is easily accessed by vehicle from either the boat ramp off of Gold Basin Road or from the boat ramp off of State Highway 50. It is also linked to the City of Gunnison Trail system by a newly constructed pedestrian bridge to allow access to the park via non-motorized methods without having to cross the busy State Highway 50. Hartmans Rocks Recreation Area can be accessed by trail to the south.

Since its conception in 2002 there have been a number of improvements to the Park to ease access and minimize congestion. These improvements include the creation of a 2nd boat ramp, creation of additional parking and picnic areas, clearing of brush and the creation of a 1 mile long walking trail within the park itself.

The only obstacle to getting to the project site to complete the necessary repairs will be high water levels present during the spring runoff and summer months. This will be overcome by limiting construction to fall and early spring when water levels can be mitigated.

3. Describe the scope of the project – what exactly will be built. Be specific, explaining preparatory work, quantities, dimensions, etc. What is the useful life of each project component and how was that useful life determined? If the project is intended to enhance or replace existing facilities, describe the state of the existing facilities, why the facilities are no longer acceptable or usable, and how they got into the condition they're in. Include photographs of amenities to be replaced. Describe consultations you have had with outside experts, other communities, or knowledgeable individuals about, building this

sort of project. How did or will you choose particular vendors, materials, systems, etc.? Provide a detailed budget that presents information consistent with the answers presented throughout the Selection Criteria and on the Application Summary Form. ***(15pts.)***

The Gunnison Whitewater Park consists of both in-river and upland amenities. In-river improvements to enhance water based recreation are the centerpiece of the Park. Three structures built across the river along the bottom perpendicular to flow create whitewater waves. A wave, sometimes referred to as a hole, is a specific type of river hydraulic that allows river users to ride their craft or "surf" facing upstream as the water flows at them. The hydraulic action of the wave behind the users keeps them in the wave. Waves are also designed to allow safe passage of river users, such as, rafters, tubers, and swimmers in the downstream direction. Whitewater wave structures are designed to also create recirculating pools called eddies. Eddies provide users recovery areas were river currents are slower and access the wave from the pool below in an activity call "Park and Play". This activity is unique in river paddle sports because unlike traditional river paddling where the users travels downstream over a long distance, Park and Play allows users to recreate for a long period of time without leaving a single location. All whitewater parks are predicated on this activity as it creates a high density of river users, a spectator friendly venue capable of hosting river festivals, and is convenient by a broad spectrum of user types. Whitewater wave structures at the Park are built from boulders and grout (cement). Several boulder jetties and deflectors exists at the Park along the river banks that create jets, eddies, currents, pools to support river recreation, and provide bank stabilization and aquatic habitat. Upland amenities to support the river activities include access roads, parking lots, changing rooms, a restroom, riverside trails, native plantings and landscaping, terraced boulder seating areas, beaches, and multiple access to the waters edge.

Originally built in 2002, the Gunnison Whitewater Park was regarded as one of the best whitewater parks in Colorado and the nation when it opened. The success of the annual Gunnison River Festival and high usage of the park were a model for whitewater parks in other communities. Quickly the park became a defining amenity for the community, drawing local residents and out of town visitors. The park has provided quality of life and economic benefits to Gunnison. Towns throughout Colorado with whitewater parks are seeing and recording the benefits of these parks in the Spring, Summer and Fall seasons.

Deteriorations of the in-river whitewater structures over the past decade, despite routine maintenance by the County, has decreased the performance and usage of the park. During the Gunnison River Festival last summer the park lacked a whitewater wave suitable for the freestyle kayaking rodeo event, a staple for the festival. This past year several potential safety issues were identified by park users and the County. McLaughlin Whitewater Design Group (MWDG), nationally recognized recreational whitewater experts, was retained by the County to evaluate the condition of the park and provide recommendations for repairs. MWDG engineers designed the first in-river whitewater project in the U.S. at Confluence Park in Denver, the largest whitewater project in U.S., finished in 2013, on the Chattahoochee River in Columbus, Georgia and the whitewater wave that hosted the 2013 ICF World Freestyle Championships in North Carolina. Damage to two of the three whitewater wave structures in

our Park were identified. MWDG recommended that these structures be repaired to improve performance and safety. The park evaluation by MWDG is included as **Attachement F.**

Structural damage was observed at the two downstream most existing whitewater wave structures, Feature #2 and Feature #3. Damage includes large boulders separated from the structures, voids and undercuts underneath structure, large cracks in the grout, and debris in downstream pools **(Attachment E).** The specific cause of the damage is not entirely clear, but MWDG has identified several possible contributing factors including natural river forces, hydrology, natural scouring of river bed and bank materials, structure foundations/cutoffs, and scour protection. Although the damage to the structures varies it is, according to MWDG, significant enough to require repair of both features to address current and potential future safety issues and provide recreational whitewater at the Park. Without repair complete failure of the structures is likely that could create hazardous conditions to the public, destabilize the river channel, and eliminate the whitewater recreation at the Park. The whitewater features provide channel stabilization critical to a primary irrigation diversion in the Gunnison River Valley.

The proposed project will repair Feature #3, stabilize the channel downstream of Feature #3, and stabilize the pool downstream of Feature #2. The MWDG report recommends a comprehensive repair of Feature #2 but acknowledges that it's in better condition than Feature #3. However, current available funding is insufficient to complete the recommended repairs. MWDG has recommended to the County that stabilizing the downstream pool downstream is a positive action that may extend the structure life and reduce public safety hazards until adequate funding becomes available. The center portion of Feature #3, consisting of boulders and grout, will be completely removed. Boulders and grout will be removed at the sides, called shoulders, where structural damage exists. A new foundation built with boulders, grout, and a liner will be installed under Feature #3. The foundation will extend below predicted scour depths at the downstream edge and to reduce subsurface water flow (piping) and uplift pressures along the upstream edge. Boulders and grout will be placed on the foundation to create a whitewater wave at the center and terraced seating areas at the shoulders. Existing boulders will be harvested and reused in the new structure. Grout will only be used in areas of high velocity and where high forces require it to provide structural stability. Injection methods to place grout will be utilized to minimize required quantity and improve aesthetics by reducing visible grout at the surface. In general, Feature #3 will be rebuilt at its current locations. Boulders, riprap, and cobbles will be mixed and placed in the pools downstream and adjacent to Feature #2 and #3 to control scour and protect the whitewater wave structures. MWDG identified possible degradation (lowering) of the river channel downstream of Feature #3. Stabilization of the channel with riprap and cobble material without grout is proposed to maintain optimal pool levels and control local degradation. The pool level downstream of Feature #3 is key to the formation of the whitewater wave which is affected by the degradation. Construction of the proposed project in a "dry" condition is required. River water will be temporarily diverted around work areas and pumps will be used to remove additional water. **(Attachement K).** Details related to quantities and materials are included in the **Project Budget**. Status of the necessary permits are described in a letter from Bio-Environs **(Attachement H)**

Fish passage is crucial for diverse fish populations, range, and spawning. Kokanee and trout are known to exist in the project reach as indicated in the **Environmental Checklist** completed by the Colorado Parks and Wildlife. Existing whitewater wave structures provide fish passage. The proposed Feature #3 and other improvements will be designed to pass both Kokanee and trout species. MWDG has designed several fish passages at recreational whitewater projects. In Green River Wyoming, interstitial spaces between boulders at the whitewater wave structure shoulders provides passage for trout and lake run Kokanee. A similar design will be utilized on this project. It is anticipated that the CPW will establish passage design criteria such as minimum water depth and velocity suitable for target fish species.

Design life of river infrastructure is evaluated and determined differently than other infrastructure. Flowing water and debris are responsible for most of the forces exerted on river structures. Hydrology, the term for the statistical timing, quantity, and duration of flow in a river, is key in determination of stability of a structure. Evaluating design life in terms of a duration of structure life is difficult at best, therefore structures are designed to withstand statistical flow events. For example, a 100-year event has a 1% chance of happening on any given year. It is therefore important to design river structures to withstand floods greater than the target design life. MWDG designs all their in-river structures to withstand flows up to the 100-year flood event. MWDG has designed some of the oldest whitewater parks in the U.S. Confluence Park in Denver was constructed in 1996 and the Atlanta Olympics Course on the Ocoee River was also finished in 1996. Both venues have experienced high flood flows and have successfully operated for 17 years without <u>any</u> structural damage or needed repairs. This performance is unmatched in the whitewater industry. The proposed whitewater wave structure at the Gunnison Whitewater Park will be designed to the same criteria as other MWDG river projects which will yield a design life of greater than 25 years.

4. Estimate the annual costs to maintain the project. How did you derive those numbers; how do you intend to fund maintenance; and who is responsible for maintenance? ***(5 pts.)***

An annual maintenance cost of $5,000 was estimated for the proposed project. The County is currently responsible for maintenance and will continue to maintain the Park through their Parks and Trails Budget **(see Attachment I).** The annual maintenance budget for the current park is $6,000 but is rolled into overall budgeting for Parks and Trails. The selected whitewater engineer, MWDG, have built over 10 in-river whitewater projects in the U.S. none of which have required structural maintenance, such as replacing boulders. A MWDG designed whitewater park similar to the proposed, in Green River Wyoming was completed in 2009. The annual maintenance costs have been approximately $2,000 or less. Maintenance activities have include removal of debris and adding sand/gravel to beach areas/trails after high flow events.

5. *Who are the existing and/or expected users of the proposed project? What individuals, organized sports leagues and teams, school and youth groups, etc will the project benefit? Provide user numbers for each user group, noting how you arrived at that estimate.* ***(5 pts.)***

Successful whitewater parks, like in Gunnison, provide recreation for a variety of users both in the river and along the riverbanks. In fact, a 2012 study of manmade whitewater parks by Kristen Podolak (PhD Candidate at the University of California, Berkeley) observed that 76% of users were on

the riverbank. The study observed that a favorite spectator location was at the whitewater waves which suggests that these features are key to in-river and bank users' experiences and function of the Park. Current in-river park users include fisherman, rafters, swimmer, waders, body boarders, tubers, drift boats, kayakers and surfers. Riverbank users include spectators, walkers, joggers, and sunbathers. Populations served include commercial fishing and rafting companies, Western State Colorado University students, local individuals and families and visitors to the community. Existing Park usage has been observed to be approximately 20-50 river users per day and 80-150 river bank users per day in May – October. This estimate is supported by the data collected in the 2012 study where an average of 280 users visited the Salida Whitewater Parks daily with 70 in-river users and 210 riverbank users. It is expected that usage of the Gunnison Whitewater Park is lower than Salida due in most part to the annual 250,000 rafting visitors to the Arkansas Headwater Recreation Area. In addition, it is host annually to the very popular Gunnison River Festival which brings in boaters, spectators and water enthusiasts from all around the region to participate in activities revolving around our River ecosystems.
Below are some specific user groups that utilize the Park:
Western State Colorado University: WSCU is a four year University with strong programs in both Environmental Studies and Recreation and Sports Science. The University and its students are a significant user of the Gunnison Whitewater Park. According to Matthew Ebbott, a Professor at the school, the Park is utilized for a Water Based Instruction class for instruction in kayaking, rafting, SUP and Swift Water Rescue. The Intro to Outdoor Recreation class utilizes it for an introduction to whitewater activities. Camps and athletic teams use it as a training area. In addition the Wilderness Pursuits program at the college utilizes the park for it's learn to kayak and learn to raft programs. Students also use the park recreationally and on most days during the summer many can be found swimming, kayaking, rafting or just sunbathing at the park.
Gunnison High School: Gunnison High School has an Outdoor Recreation class that utilizes the park as a way to teach whitewater skills and safety.
Commercial Rafting Companies: The Park is a great amenity to commercial rafting companies as it offers a feature in the Gunnison River that is not available in other parts of the river. It is also a convenient location to stop for lunch and relax during longer day trips taking out further down the river.
Fishermen: The Park has created a great public access point for both local and visiting fishermen to the Gunnison Valley. Pools created by the features of the Park create good habitat for fish and there is never a day that folks are not lining the banks to fish the different areas the park creates access to. Professional angling guides parade their trips through the Park to share the asset with their clients.
Recreational Boaters: This is one of the biggest user groups of the park. Kayakers, SUPers, surfers and rafters heavily utilize the park throughout the summer.
Attachement J shows typical numbers during the summer.

6. Describe the recreational needs that this project will serve. How will the project enhance recreational offerings, including programming, and/or environmental education opportunities in the community? What opportunities are lost if this project is not undertaken now? How are potential users of the project

compensating now for the lack of the project? Do they have to visit other communities to use a similar amenity; do they have a substitute offering available; or do they simply go without? ***(15pts.)***

The Gunnison Whitewater Park is a unique asset and a proven valuable amenity to the Gunnison Valley and the Western Slope of Colorado. Its uniqueness is mainly derived from the three manmade whitewater features that form waves and hydraulics not found anywhere else in the Gunnison River above Blue Mesa Reservoir. The Park also offers highly accessible public access to quality fishing habitat. As previously noted, recreational opportunities are available for a wide array of user groups.

Due to the current condition of the Park, the structures are not functioning as was initially intended. As previously stated the deterioration of features 2 and 3 have gotten to the point where the wave is no longer creating a surfable hydraulic and boulders that have caved off from the 3rd feature have created safety issues for users. Due to these safety issues both the 2nd and the 3rd features will have to be removed if we are unable to secure funding for the necessary repairs. In this situation the in river portions of the Park would lose value to the majority of user groups at the Park and the loss of features 2 and 3 would also have a negative impact on the functionality of feature 1. This creates an urgency to the situation as the Park has become one of the signature assets of the Gunnison Valley and to lose it would negatively affect both the local users as well as visitors to the area.

The Gunnison Whitewater Park is promoted heavily through both our local Chamber of Commerce as well as the Gunnison/ Crested Butte Tourism Association as a place that visitors to the community can easily access Gunnison River and participate in the activities the Park offers. If the Gunnison community were to lose this amenity, users would have to travel a minimum of 60 miles in order to find a Park with similar characteristics. The educational opportunities that currently are available at the Park to WSCU, the local high schools and social and service groups would be minimized without the easily accessible and safe whitewater features that the Park provides.

Not only is the Park a valuable recreational and educational amenity, it is significant economic driver for the Gunnison Valley. Outdoor Recreation has become a major US industry, ranking third overall in annual consumer spending with $646 billion in revenue (Outdoor Industry Association, 2012). Watersports, i.e. kayaking, rafting, canoeing and motorized boating, has become the second highest source of revenue with participant spending reaching $86 billion annually. According to the Protect the Flows technical report, watersports recreation along the Colorado River Basin produces $26 billion in economic output (Southwick Associates, 2012). While no specific economic report has been produced on the Gunnison Whitewater Park, a study done on the whitewater park in Golden, Co shows that it generates $2.5-4 million dollars in economic impact from everyday uses and special events (Buchanon, 2012).

In addition, the creation of the Gunnison Whitewater Park and its recreational uses helped secure a Recreational Inflow Water Right for the Gunnison River Basin ranging from 270 cfs to 1200 cfs. This is a permanent water right and preserves healthy river flows and a sustainable water source for local communities and a livable habitat for wildlife. The Park has created significant improvements within the river corridor that includes improved fishing habitat, bank stabilization, improved river access for recreational users and the creation of a trail system. In addition the creation of one of the whitewater features enhanced a diversion structure that was creating damage to the river floor.

7. Describe the public planning process that identified this specific project as a priority. Is the project listed as a priority in a master plan, site specific plan, or other adopted planning document? If so, describe that plan including when it was adopted, the opportunities the public had to comment on it, and the priority this project is listed as within it. If this project is not the top priority in that plan; discuss why it is being pursued at this time. OR was this project identified through an independent community planning process? If so, describe the specific opportunities the public had to comment on this project. If public meetings were held, include the number of meetings, when they were held, how they were advertized and the number of people that attended. If a survey was distributed, how many people and what groups were surveyed? How many people responded? Provide one copy of a blank survey. Summarize the feedback received from the public and how it was determined that your constituents want and will use the project? What did you learn from the processes discussed above? ***(15 pts.)***

This particular project is unique in the fact that it is a repair of a very popular existing amenity. A thorough public process was implemented during the creation of the Park in 2002, as well as when the 1st feature was added in 2011. Through these processes a Park was created that met the needs of a wide array of user groups. In 2010 a Master Plan was completed on the Whitewater Park. The Gunnison Whitewater Park Master Plan process again included significant public input from a broad spectrum of user groups to properly plan how the Park would develop. The Master Plan was utilized in the Summer of 2013 when some suggested improvements were implemented including the creation of an additional internal trail system, a slack line area and an additional boat ramp accessed from Gold Basin Road. Those involved in the creation of the 2010 Master Plan assumed that all 3 features of the Park would be functional.

In the Fall of 2013, McLaughlin Whitewater Design Group was retained to evaluate the existing whitewater features, identify any structural damage and provide recommendations to repair and deficiencies. To summarize they found significant structural damage/ instability in both structure 2 and structure 3 which includes the high probability of complete or partial structure failure in the near future as well as significant safety issues caused by the erosion/ failure of the existing features in the immediate term. In light of their report and due to the urgency of the necessary repairs, the County immediately began the process of trying to secure the necessary funding to complete the necessary repairs. This process included 3 public meetings with the Gunnison County Commissioners (Dec, Jan and Feb), two public meetings with the City Council of Gunnison (Jan, Feb), two public meetings with the Crested Butte Town Council (Feb) and one publicly noticed informational meeting held at the Gunnison Community Center (Feb). These meetings were all publically noticed in the Gunnison Country Shopper, Crested Butte News and the Gunnison Country Times. At each of the meetings the public was offered opportunities to comment. In addition, three articles were written in the Gunnison Country Times highlighting the results of the meetings.

At the Informational Meeting in Feb 2014 there were 7 members of the public present to comment. Comments were all in support of the repair of the Park features and how valuable an amenity the Park was to the Gunnison Community. Questions were asked as whether the repairs would negatively impact fish migration and fishing access. It was explained that the repairs would not change the existing use of the park or its functionality so there would not be any impact to fish migration or fishing access.

At all of the County Commissioner and City Council meetings there was no comments from the public but both councils and the commissioners emphasized how important the Park is to the community and offered support to the grant application and have submitted Letters of Support which are included in

the application. As shown on the timeline included in the application, there will be additional opportunities for public input in the process scheduled for Spring of 2014.

Through the public input process it became obvious that the Gunnison Whitewater Park is viewed as an integral part of the Gunnison Valley. It is not often that a project gets supports from both ends of the Gunnison Valley and the quickness of both City Councils to move forward with financial and public support of the project speaks measures.

8. Will a CYCA-accredited youth corps ***OR*** *other local youth organization be used to implement the project? Keep in mind this could be anything from planning and fundraising to construction. If so, describe what the youth organization or Youth Corp will be doing and discuss the collaboration you've had with them. Submit a letter of support from the corps or organization that you will be collaborating with. If there will not be youth involvement in this project, provide an explanation of why.* ***(5pts.)***

The Gunnison High School Outdoor Education classes will be utilized in the implementation of the Gunnison Whitewater Park project. Projects would include bank stabilization and re-vegetation and trail/ access maintenance once construction was complete. There are 5 different Outdoor Education classes with 10-15 students per class. Students would be broken down into 3-6 person crews and would spend after school time as well as weekends on the project. Instructor Leo Malloy believes it would be a very valuable Service Learning project for the students and would be a good educational opportunity to learn about the different aspects of whitewater park construction as well the importance of service to the community. Students would be involved in both the Spring and Fall of 2015. Please see letter from Leo Malloy in **Attachment D.**

9. *Who is opposed to the project? Have neighbors, user groups, or other parties objected to the project? Include any letters, petitions, news articles, or other documents evidencing opposition. What has been done to address the concerns of those opposing and how has the opposition responded?* ***(5pts.)***

There has been no public opposition to the project with the public being given the opportunity to comment at on public information/ feedback meeting, three Board of County Commissioners meetings, two Gunnison City Council meetings and two Crested Butte Town Council meetings.

10. *Is the project "shovel ready?" Provide evidence that it will be completed within two years of the award date. Describe the planning that has gone into the project; is design and engineering complete or is there work yet to be done?* ***(5pts.)***

The project will be shovel ready for construction this summer/fall and will be completed within two years of the award date. Construction of the project is heavily dependent on river flows. Late August to early December is the typical construction window for work in the Gunnison River. The planning, design, and permitting process has started and will be completed by late August 2014. Evaluation of the condition of the existing Park was completed by MWDG in late October 2013. A concept design has been completed including plan view drawings and design details, such as, boulder details and typical cross sections. The concept design exhibits and details are **Attachments K-M**. A proposal for final design and construction phase services is currently being reviewed by the County. Topographic survey of the upland areas has been completed. Survey of the river bottom, called bathymetric survey, is on hold due to river ice but is scheduled for early spring. Public process, permitting and final design will be finished by end of August 2014. Construction will begin in

September 2014 and be completed December 2014. 3-months for construction is reasonable based on a recent MWDG designed whitewater project on the lower Gunnison River near Delta Colorado. The Hartland Dam Fish and Boat Passage project was completed in 6-months with a final construction cost of nearly $2 million, four times the construction value of this project. In addition, construction of a similar whitewater project in Green River Wyoming (MWDG designed) was completed in 3-months. A detailed project schedule/ timeline is included in the application.

11. *What is compelling about your community's need for GOCO funds? Will the project (or components of it) get done if GOCO funds are not available? Will applicant or partner funds dedicated to the project be lost if GOCO doesn't award a grant now?* ***(5pts.)***

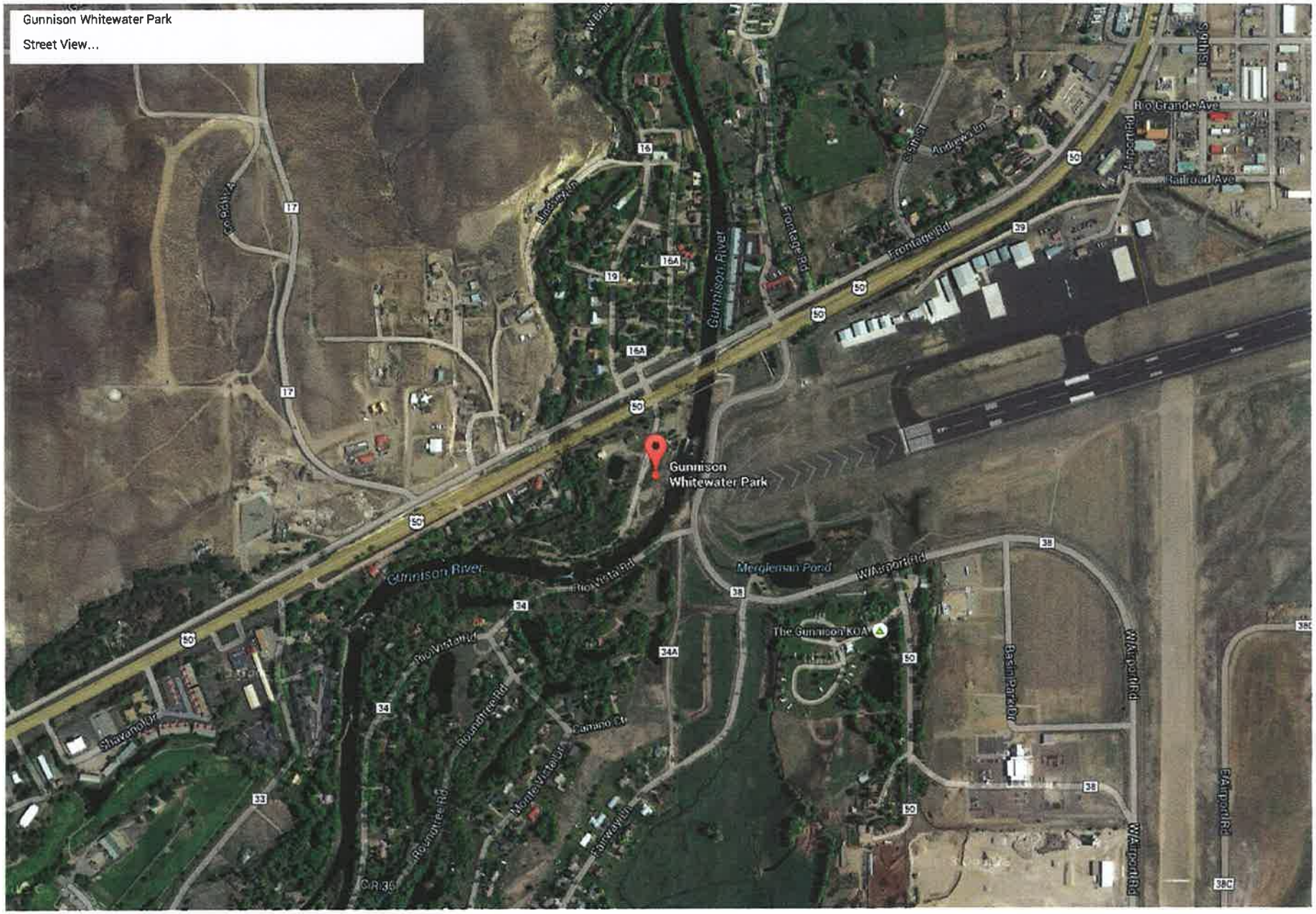
The most compelling argument that could be made as to the communities need for GOCO funding for this project is that without it the Gunnison Valley is going to lose one of its most prized recreational assets for the foreseeable future. While some loss of functionality in the features of the Park were noted during the Spring and Summer boating season of 2013, it was not until water levels lowered to a point in the Fall that the whitewater engineers were able to get into the river and see what was causing the problems. It was unexpected the level of degradation that was occurring and the urgency to immediately complete repairs became obvious. The significance of the repairs needed is not something that can be rolled into the Gunnison County General Fund budget. Without GOCO grant funding for the project the Gunnison Whitewater Park will no longer be functional and features 2 and 3 will need to be removed in order to ensure the safety of the public until funding could be secured in future years. Applicant funds would be budgeted towards the necessary repairs for the 2014 budget cycle. Partner funds are specifically to be utilized as matching funds for the GOCO application and would be lost if GOCO does not award the grant for the Gunnison Whitewater Park.

12. *How much of your planned cash match is secured? How much of it is yet to be raised and what are your plans for raising those additional funds? What is your "Plan B" if you are unable to raise those funds? Describe the cash or in kind partnerships established for this project. This does not include cash or in kind partners who have contributed to previous phases or will contribute to future phases. If cash or in-kind partnerships for this project were not possible, explain why.* ***(10pts.)***

We have 100% of our cash match secured from our partners in the GOCO project application. This proves the importance of the project to the community that we were able to secure the number of partners that we needed for the cash match in the timeframe that we did. These partners include Western State Colorado University, the City of Gunnison, 1% for Open Space, and the Gunnison River Festival. Another significance to note is the fact that funding came not only from the south end of the Gunnison Valley but from the entire Gunnison River Watershed. This clearly shows that while the Gunnison Whitewater Park is located adjacent to the City of Gunnison it is an important regional asset that is utilized by the entire Gunnison Valley.

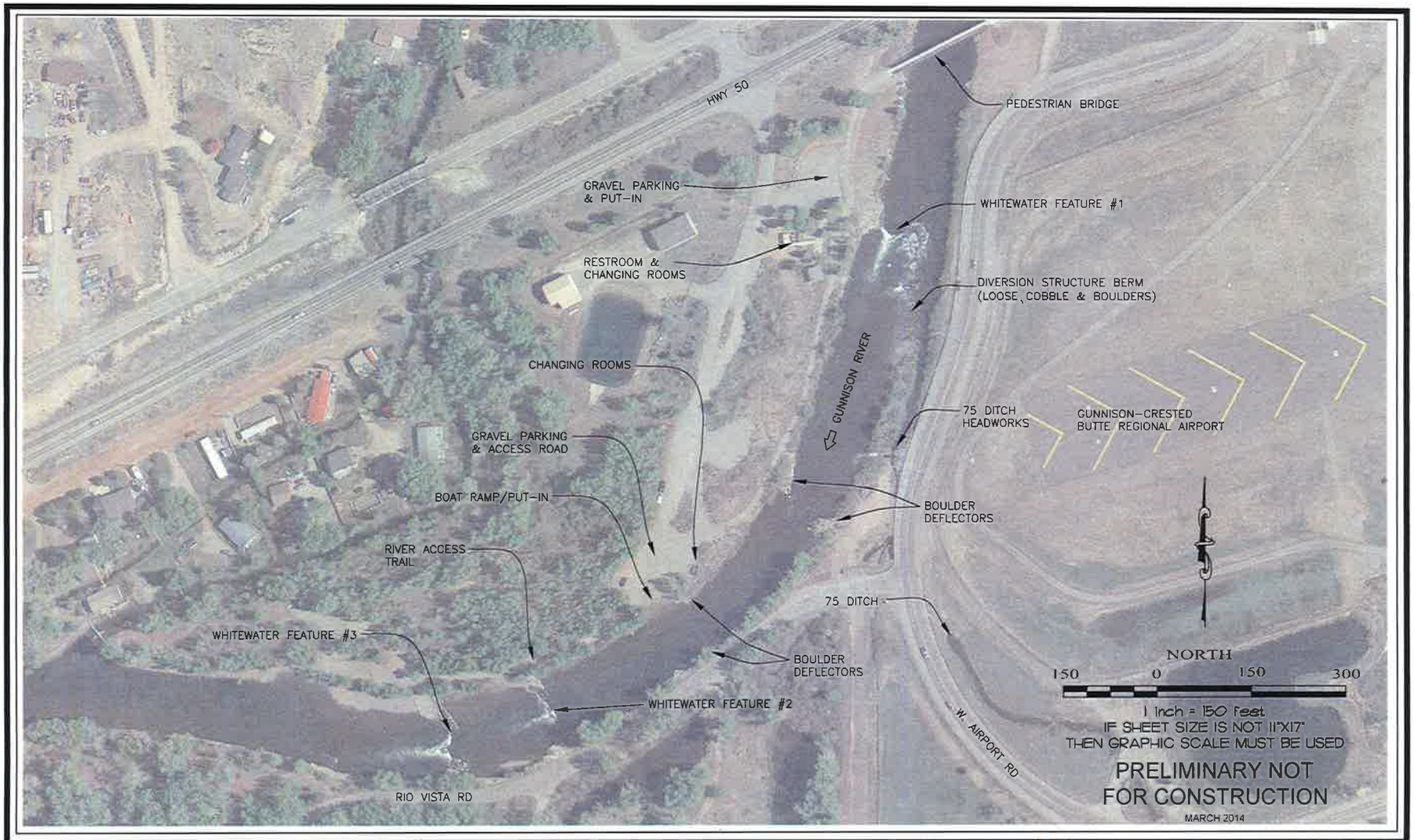
13. *Provide up to seven letters/emails of support from entities that are supporting the project in ways other than cash or in-kind contributions. Letters should come from users, user groups, community members, volunteers, schools, etc. Support letters/emails must be included with the application and* ***will not*** *be accepted if mailed to the GOCO office.*

Please see Attachment C



Imagery ©2014 DigitalGlobe, USDA Farm Service Agency, Map data ©2014 Google 500 ft

Attachment A



GUNNISON WHITEWATER PARK GUNNISON COLORADO	OVERALL EXISTING SITE EXHIBIT	McLaughlin Whitewater Design Group A DIVISION OF MERRICK & COMPANY 2420 Alcott St. Denver, CO 80211 T303.964.5333 F303.964.3365	1

R:\1 MWDC ACTIVE JOBS\GUNNISONWWP\DRAWINGS - AUTOCAD Last Saved: February 26, 2014

Attachment B

Attachment C

City of Gunnison

February 18, 2014

Dear Grant Review Board for Great Outdoors Colorado

RE: Gunnison Whitewater Park

This is a letter of support for a grant application to repair our Gunnison Whitewater Park which is a treasured regional recreation amenity. It was created to provide activities for a variety of users including fishermen, kayakers, rafters, swimmers and those who simply enjoy relaxing on the features and park that was created. During the summer months the Park attracts hundreds of uses from all ages and demographics. It plays host every year to the very popular Gunnison River Festival which brings in boaters and spectators from all around the region to participate in activities revolving around our Gunnison River ecosystems.

The Gunnison Whitewater Park is an incredible asset for the entire Gunnison Valley. The creation of the Gunnison Whitewater Park and its recreational uses helps secure a Recreational Inflow Water Right for the Gunnison River Basin. This preserves healthy river flows and a sustainable water source for local communities and a livable habitat for wildlife.

Early in 2013, local boaters and Gunnison County staff identified several potential structural issues with two of the existing whitewater features at the Gunnison Whitewater Park. The park serves a wide array of local recreational user groups and create a significant impact to the Gunnison Community, both economically as well as creating a healthy addition to our quality of life. The Gunnison Whitewater Park has created significant improvements within the river corridor that includes improved fishing habitat, bank stabilization, improved river access for recreational users and the creation of a trail system. Also, one of the whitewater features enhanced a diversion structure that was creating damage to the river floor.

Gunnison County is applying for a GOCO grant in the amount of $350,000 to partially fund the necessary repairs to the Park. The City of Gunnison eagerly supports this project financially and collaboratively with an offer to assist in meaningful ways. We encourage Great Outdoors Colorado to favorably regard this request for grant funds. Thank you for your consideration of this project funding.

Sincerely,

Ken Coleman; City of Gunnison Manager

P.O. Box 239 201 W. Virginia Avenue Gunnison, CO 81230-0239 PHONE: (970) 641-8000 FAX: (970) 641-8051

WESTERN STATE COLORADO UNIVERSITY

STUDENT AFFAIRS

March 3, 2014

GOCO Grants
303 E. 17th Avenue, Suite 1060
Denver, CO 80203

To Whom It May Concern,

On behalf of Western State Colorado University, I am writing this letter to express the University's support for the GOCO Grant application that is being submitted for the Gunnison Whitewater Park repairs.

The Gunnison Whitewater Park provides an additional access point and recreational amenity to the Gunnison River for the local community, including Western students. With the close proximity to our campus, the whitewater park has been instrumental in offering ample opportunities for academic programs along with recreational amenities that enhance the student experience in Gunnison. The whitewater park also allows water sports enthusiasts in our area the ability to progress their skills in a safer environment, and more importantly, it provides Western students, Gunnison Valley residents, and our visitors with an additional recreational amenity. Western believes that this type of amenity helps attract and retain students and is a true asset to the entire Gunnison Valley.

Undoubtedly, the restoration of the whitewater park will provide a great benefit to the Western State Colorado University community. However, I also believe that with grant funding we can restore the Gunnison Whitewater Park as an important recreational amenity for our community, which in turn will provide significant local economic benefits. Please know that as a University we understand the importance of collaboration in our valley and, in this spirit, we will also be making a financial contribution to this repair project.

Sincerely,

Gary C. Pierson
Vice President for Student Affairs/Dean of Students
gpierson@western.edu

Gunnison Crested Butte
TOURISM ASSOCIATION
COLORADO – PURE & SIMPLE

To: GOGO Review Board
From: Pamela Loughman, GCBTA Executive Director
RE: Gunnison Whitewater Park repairs
Date: March 1, 2014

Grant Application Review Committee,

The Gunnison-Crested Butte Tourism Association is in full support of the grant application submitted by the City of Gunnison for its Whitewater Park repairs. The park, located on the banks of the Gunnison River, provides access points to the river for the community and visitors alike. The proposed scope of work takes into account necessary improvements to the water park to ensure the safety of citizens and a multitude of other users, including the traveling public.

Tourism is the lifeblood of economic development for our small community. The Tourism Association markets Gunnison County to increase overnight visitors in support of our local economy. Direct employment in the county represented 1,870 tourism-related jobs. The Whitewater Park is a product that we offer to citizens and the traveling public; keeping users safe is a responsibility of the community and paramount to recreational enjoyment.

Thank you for consideration of this very important application to improve the infrastructure of the water park.

Regards,

Pamela J. Loughman

Pamela Loughman
Executive Director
GUNNISON-CRESTED BUTTE TOURISM ASSOCIATION

Town of Crested Butte

P.O. Box 39 Crested Butte, Colorado 81224

-National Trust for Historic Preservation's 2008 Dozen Distinctive Destinations Award Recipient-

-A National Historic District-

Phone: (970) 349-5338
FAX: (970) 349-6626
www.townofcrestedbutte.com

February 18th, 2014

Dear Great Outdoors Colorado-

Please accept this letter of support from the Town of Crested Butte for Gunnison County's grant application to repair the Gunnison Whitewater Park. Although Crested Butte is a popular kayaking destination, our season lasts only a few weeks during the peak of spring runoff and consists mainly of expert to extreme sections of river. Crested Butte does not have a safe and reliable river wave feature and many residents use the Gunnison Whitewater Park as a training area to learn the sport or improve their skills. In the ten years since its creation, the Gunnison Whitewater Park has become a cherished community asset.

The Town strives to provide high quality recreational amenities to our residents and visitors; however, we do not have the water resources to have our own whitewater play park. The Gunnison Whitewater Park is the closest recreational facility of its kind and we support Gunnison County's efforts to save the park from being overtaken by the Gunnison River.

Furthermore, the park features have created accessible fishing habitat by creating calm and deep water upstream of the waves. These features provide excellent fishing access for families and people with disabilities. A loss of these features would be a loss to the entire community in the Gunnison Valley.

Thank you for considering Gunnison County's grant application and do not hesitate to contact the Town of Crested Butte if you have any questions or concerns regarding our support of this project.

Sincerely,

Aaron Huckstep

Mayor
Town of Crested Butte, Colorado

P.O. Box 1974
Crested Butte, CO 81224
Phone: 970-349-1775
Fax: 970-349-1775

director@1percentforopenspace.org
www.1percentforopenspace.org

February 28, 2014

Dear Review Board of Great Outdoors Colorado,

This letter is written to strongly encourage you to support the grant proposal for the Gunnison Whitewater Park.

1% for Open Space, a consortium of over 100 Gunnison County businesses dedicated to funding open space and recreational opportunities for the residents and visitors here, has recently pledged their own support with $5,000. While the monies might appear small, this pledge is backed by a large voice of the business community. Additionally, our grant money is actually awarded through the customers of our participating businesses, where literally thousands of customers each year make their pledge to just such projects. The healthy business and customer participation in the program is testament that the presence of open space and recreational opportunities not only protects our lifestyles, but as a tourist destination, it assures a viable economic future as well.

Gunnison County is a haven for outdoor recreation—from biking and hiking, to fishing and rafting. Still with so many opportunities, the Gunnison Whitewater Park stands alone as the sole experience of its kind in our area. 1% for Open Space chose to support the project for a variety of reasons:

1. The Gunnison Whitewater Park is a major economic driver in our county supporting the livelihoods of not only several rafting and fishing companies, but the Gunnison River Festival as well.
2. With up to 150 users per day in high season in a county of only 16,000 residents, the importance the park plays in the individual endeavors of kayakers, rafters, hikers, fisher people, tubers, waders and swimmers is evident.
3. In addition to preserving a recreational resource, the park also greatly improves fish habitat and creates greater bank stabilization for the riparian river ecosystems.
4. Re-building the features of the Gunnison Whitewater Park (which will have to be torn down if not re-built) also helps protect the continuation of the Recreational Inflow Water Right granted for the park by assuring the park will be continue to be used in the manner in which the water right was granted.
5. The functionality of the important 75 Ditch (the most senior water right in Gunnison County) is improved by more controlled flows thereby extending the positive influence of this project beyond just the recreational and into our agricultural and ranching communities.

Thank you for your vital consideration of this project. We hope you will join us in supporting it.

Sincerely,

Molly Murfee

Molly Murfee
Executive Director

Jesse Kruthaupt
Upper Gunnison Project Specialist

To: Review Board Great Outdoors Colorado

From: Jesse Kruthaupt

Date: Feb 28, 2014

Ladies and Gentlemen,

Trout Unlimited is pleased to offer our support of the Gunnison Whitewater Park Reconstruction Project. Since its inception this park has seen an enormous amount of use. It has become a part of the community, not only for whitewater enthusiasts, boaters, and fishermen, but those looking to just dip their feet in the clean cool water to observe, relax, or reflect.

Trout Unlimited is a sportsmen's conservation organization focused on improving and protecting trout habitat throughout the United States. I am aware that over the last 20 years many whitewater parks have been scrutinized for impeding fish migration and altering the balance of sediment transport and deposition. I am confident that the proposed new structures at the Gunnison whitewater park will address these concerns and by contrast provide ideal habitat for trout and a safe accessible opportunity for all members of the community to enjoy the Gunnison River.

There is no denying that the Gunnison whitewater park is an extremely valuable asset to our community. Reconstruction of the two deteriorating features will assure that the park will continue to be a focal point for locals and guests to get outside and play.

I encourage Great Outdoors Colorado to consider granting the funds requested.

Thank you for considering these comments.

Sincerely,

Jesse Kruthaupt

Jesse Kruthaupt
Trout Unlimited
970-209-0976

Upper Gunnison River Water Conservancy District

210 West Spencer Avenue, Suite B • Gunnison, Colorado 81230
Telephone (970) 641-6065 • Facsimile (970) 641-1162 • www.ugrwcd.org

March 3, 2014

GOCO Grant Review Board

Reviewers:

The Upper Gunnison River Water Conservancy District is offering our support for the grant application for the Gunnison Whitewater Park Repair. The application submitted by Gunnison County outlines the importance of this recreational amenity to our community. Repairs are critical to restore the Gunnison Whitewater Park as a regional attraction for boating, fishing and hiking enthusiasts.

Our District has invested significant resources into obtaining a recreational in-channel diversion water right for the Gunnison Whitewater Park. Our RICD water right protects our Park by calling for flows ranging from 270 cfs to 1200 cfs. Having safe and functional drop structures is a necessary component of our water right.

We are excited at the opportunity for the proposal to restore the features at the Gunnison Whitewater Park. This project, when completed, will allow the Park to regain its status as a major attraction for recreational and educational pursuits in the Upper Gunnison basin.

Thank you for your consideration in funding the Gunnison Whitewater Park Repairs.

Sincerely,

Frank, J. Kugel
General Manager
Upper Gunnison River Water Conservancy District

Attachment D

3 March, 2014

Dear GOCO,

I am writing this letter in regards to the Gunnison Whitewater Park. I understand that John Messner is working on a grant proposal for funding to upgrade and improve the current whitewater park in Gunnison.

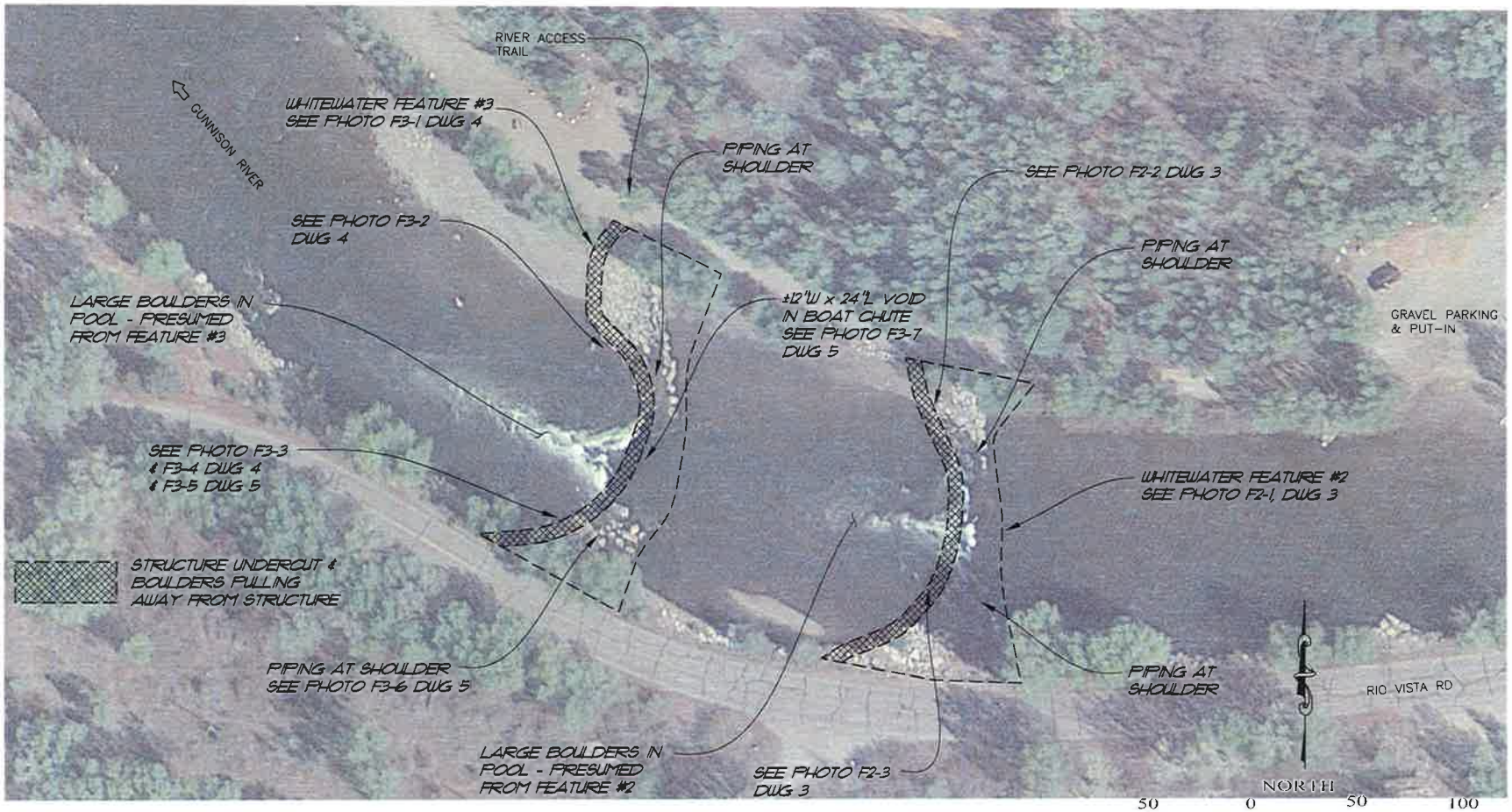
This is exciting news and the Gunnison High School Outdoor Education program would like to be involved with the renovations being proposed. The Whitewater Park has provided an ideal platform for Gunnison youth to learn the basics and beyond in whitewater safety and boating skills.

Service learning has been a component of the Outdoor Education program at Gunnison High School for 18 years. The opportunity to assist with the renovations of the Gunnison White Water Park would be a superb educational experience for Gunnison High School students.

Thanks for your consideration of the grant proposal and the benefits the Whitewater Park has for Gunnison youth.

Sincerely,

Leo Malloy
Director Outdoor Education
Gunnison Schools
800 W. Ohio Ave.
Gunnison, CO 81230
Office: 970-641-7700 ext. 3405
Cell: 970-281-2128
lmalloy@gunnisonschools.net



PRELIMINARY NOT FOR CONSTRUCTION

MARCH 2014

1 inch = 50 feet
IF SHEET SIZE IS NOT 11"X17"
THEN GRAPHIC SCALE MUST BE USED

GUNNISON WHITEWATER PARK GUNNISON COLORADO	WHITEWATER FEATURE #2 & #3 EVALUATION EXHIBIT	McLaughlin Whitewater Design Group A DIVISION OF MEYRICK & COMPANY 2420 Alcott St Denver, CO 80211 P303.964.3333 F303.964.3335	2

R:\ MWDC ACTIVE JOBS\GUNNISON\WWP\DRAWINGS - AUTOCAD Last Saved February 26, 2014

Attachment E

WHITEWATER FEATURE #2

PHOTO F2-1

NO SCALE

BOULDERS SEPARATED FROM STRUCTURE - RIVER RIGHT SHOULDER

PHOTO F2-2

NO SCALE

BOULDERS SEPARATED FROM STRUCTURE - RIVER LEFT SHOULDER

PHOTO F2-3

NO SCALE

PRELIMINARY NOT
FOR CONSTRUCTION

MARCH 2014

GUNNISON WHITEWATER PARK GUNNISON COLORADO	WHITEWATER FEATURE #2 SITE PHOTOS	McLaughlin Whitewater Design Group A DIVISION OF MERRICK & COMPANY 2420 Alcott St Denver, CO 80211 T303.964.3330 F303.964.3339	3

R:\1 MWDC ACTIVE JOBS\GUNNISONWWP\DRAWINGS - AUTOCAD Last Saved February 26, 2014

WHITEWATER FEATURE #3

PHOTO F3-1

NO SCALE

BOULDERS SEPARATED FROM STRUCTURE - RIVER RIGHT SHOULDER

PHOTO F3-2

NO SCALE

BOULDERS SEPARATED FROM STRUCTURE & UNDERCUTTING - RIVER LEFT SHOULDER

PHOTO F3-3

NO SCALE

BOULDERS SEPARATED FROM STRUCTURE & UNDERCUTTING - RIVER LEFT SHOULDER

PHOTO F3-4

NO SCALE

PRELIMINARY NOT FOR CONSTRUCTION

MARCH 2014

GUNNISON WHITEWATER PARK GUNNISON COLORADO	WHITEWATER FEATURE #3 SITE PHOTOS	McLaughlin Whitewater Design Group A DIVISION OF MERRICK & COMPANY 2420 Alcott St Denver, CO 80211 T303.964.3330 F303.964.3335	4

R:\1 MWDG ACTIVE JOBS\GUNNISONWWP\DRAWINGS - AUTOCAD Last Saved February 26, 2014

BOULDERS SEPARATED FROM STRUCTURE & UNDERCUTTING - RIVER LEFT SHOULDER

PHOTO F3-5

NO SCALE

VOID IN GROUTED BOULDERS - BOAT CHUTE

PHOTO F3-7

NO SCALE

"SINK HOLE" - RIVER LEFT SHOULDER

PHOTO F3-6

NO SCALE

PRELIMINARY NOT FOR CONSTRUCTION

MARCH 2014

GUNNISON WHITEWATER PARK GUNNISON COLORADO	WHITEWATER FEATURE #3 SITE PHOTOS	Laughlin Whitewater A DIVISION OF MERRICK & COMPANY 2420 Alcott St Denver, CO 80211 T 303.964.9330 F 303.964.9335	5

R:\1 MWDC ACTIVE JOBS\GUNNISONWWP\DRAWINGS -- AUTOCAD Last Saved: February 26, 2014

Attachment F

McLaughlin Whitewater
design group
A DIVISION OF MERRICK & COMPANY

MEMORANDUM
October 25, 2013

TO: Marlene Crosby, P.E. – Gunnison County Public Works

FROM: Ben Nielsen, P.E., Rick McLaughlin, P.E. – McLaughlin Whitewater Design Group

RE: Gunnison Whitewater Park Site Evaluation

PURPOSE

In the spring 2013, Local boaters and Gunnison County staff identified several potential structural issues with two existing whitewater features (play waves) at the Gunnison Whitewater Park. McLaughlin Whitewater Design Group was retained to:

- Evaluate the existing whitewater features
- Identify structural damage (if any)
- Provide recommendations to repair structures

BACKGROUND

The Gunnison Whitewater Park is located in Gunnison Colorado, south of Highway 50, west of the Gunnison-Crested Butte Regional Airport. It is approximately a ¼ mile in length (1350 feet). The park was designed by Recreation Engineering and Planning (REP). It was built in two phases – Phase 1 in 2002 and Phase 2 in 2010/2011. Phase 1 consisted primarily of two "U" dam type whitewater features (Feature #2 & #3) and four "deflectors" built with boulders and grout (grouted boulders in inverts of whitewater features). Phase 2 was a single whitewater feature (Feature #1) at an active irrigation diversion. A fish passage was designed river left of the boat chute. Phase 2 was built using loose boulders at the sides of the boat chute and grouted boulders in the chute. See Drawing 1 for overall site plan of Whitewater Park.

According to the County, the park has experienced structural, sediment transport and hydraulic performance problems. Since 2005, the County has completed several maintenance projects to address various issues. In general these activities have included replacing boulders and removing boulders/sediment. In 2008 a major repair of Feature #3 was completed that replaced boulders to address structural and hydraulic performance issues. Large boulders and concrete debris was placed on the river left bank downstream of Feature #3 to stabilize the bank. Most recently, two separate revisions where made at Feature #1 to correct insufficient diversion function[1].

Utilities and infrastructure exists near and in the Whitewater Park. Upstream of Feature #1 there is an infiltration gallery on river right, a Gunnison County waterline and Highway 50 bridge. A major irrigation diversion (75 Ditch) at Feature #1 is the most senior water right in Gunnison County. A power line to the airport runs under the river between Feature #1 and #2 (exact location not known). Rio Vista County Road runs along the east bank of the river. Gravel parking areas, trails, changing screens, and a restroom exists on the west bank.

The park is used by a variety of users with kayaking being the primary use. There is also significant use by float fisherman in rafts. It was reported by the County that there have been incidents with float fisherman at Feature #1 due to a powerful retentive hydraulic that forms at medium to high flows. The County added a "sneak route" for rafts to bypass on the river left shoulder. During the summer swimmers and tubers are common. The park is a popular hangout by Western State College of Colorado students. Bank and wading fisherman are also common in the park.

EVALUATION

MWDG conducted a site visit on October 3, 2013 to gather information and perform an evaluation of the Whitewater Park. Construction, maintenance and other documents related to the park design, construction, maintenance and performance where requested from the County. The following is a summary of the evaluation tasks completed:

- Interviewed Gunnison County Staff – A meeting with Marlene Crosby, Josh Skupta and Blaine Mazzuca was conducted to gather information on usage, maintenance history, reported incidences with recreational users, identified problems, existing infrastructure, etc.
- Site Evaluation (Dry) – Inspected park features from the bank and feature shoulders, survey of hydraulic drop across features using a level and rod.
- Site Evaluation (Wet) – Snorkeled in pools downstream of Feature #2 and #3 to inspect submerged portions of structure and pools
- Reviewed Available Documents – Review of design drawings, reports, and other available documents.

The evaluation generally focused on three areas:

- Safety – Recreational use of rivers and water have inherent and unavoidable risks. Safety was evaluated based on criteria in the Colorado Water Conservation Board Floodplain and Stormwater Criteria Manual. This document provides guidance on design and construction of in river recreational structures.

  "Structures be designed and constructed so that they are predictable and without hidden or unobvious hazards to responsible users" – CWCB Manual

The following "safety considerations" are presented in the CWCB Manual:

- Overly retentive submerged hydraulic jump ("keeper")
- Impacts, blunt trauma and abrasion
- Foot or extremity entrapment
- Pinning or entrapment against an obstruction
- Lack of egress out of the channel
- Entrapment or entrainment into structures, grates, screens, etc.

- Structural – Existing structural movement/failure, scour/bed movement, and potential future instability.
- Whitewater performance – Recreational hydraulics, wave/hole formation, retentiveness, eddy service, and depth.

The following documents were provided to MWDG from Gunnison County and were included in the evaluation. Documents are grouped by Phase:

Phase 1 (Feature #2 & #3 and deflectors)

- Design drawing by REP dated October 1998
- Design drawing by REP dated March 3, 1999
- Site survey drawing by Furey Land Surveying, Inc. dated May 1, 2003
- Feature #2 & #3 Pool depth measurement sketch (presumably by Gunnison County staff) no date
- Structure maintenance sketch of Feature #2 & #3 by Jeff Crane dated November 27, 2005
- Gunnison Whitewater Park Master Plan Update Chapter IV (abbreviated) no author or date provided.
- Miscellaneous photos of Feature #2 & #3 during high river flows (spring runoff)

Phase 2 (Feature #1)

- Design drawing titled "Ditch Diversion" by Crane Associates dated January 2004
- Design drawing titled "75 Ditch Diversion Reconstruction" by Crane Associates dated June 2004
- Report title "Concept Plan and Cost Estimate Gunnison River Whitewater Park "75" Diversion Improvements" by Recreation Engineering & Planning dated November 2009
- Design Drawings (sealed – 3 sheets total) titled "75 Ditch Improvements Gunnison River, Gunnison, Colorado" by Recreation Engineering & Planning dated November 5, 2010
- Report (no title) summarizing a site evaluation of Feature #1 by Recreation Engineering & Planning dated October 26, 2011
- Photo of Feature #1 during high river flows (spring runoff)

FINDINGS

Findings and conclusions from the site evaluation and review of whitewater park documents are presented in this section. See Drawing 2 for an exhibit showing location and type of deficiency identified.

***Table 1** – Conditions during Site Evaluation*

Date	October 3, 2013
Weather	Sunny, 65°F
Water Clarity	Good (6 – 8 feet)
River Flow	400 cubic feet per second (cfs)*
Water Temperature	45° – 50°F

*USGS gage #09114500

***Table 2** – Hydraulic Drop across Whitewater Features (surveyed)*

Feature	Flow (cfs)	Hydraulic Drop (ft)
1	400	3.4
	-	-
2	400	1.5
	1,460	1.5**
3	400	2.1
	1,460	2.2**

**Measured during previous field study by MWDG June 2003

***Table 3** – Gunnison River Average Monthly Flow*

Month	Flow (cfs)
January	211
February	204
March	252
April	606
May	1,790
June	2,410
July	1,240
August	718
September	522
October	392
November	292
December	236

Source: USGS gage #09114500 historical statistical data

Feature #1

- Apparent structural damage was not observed (inspection from bank only - low flow and location of eddy line made wet inspection difficult). Design drawings show a sloped grouted boulder toe. Vertical faces at the downstream edge of the chute and river right shoulder (eddy line) were observed which may indicate scour and toe instability.
- Safety: No apparent safety issues were observed at the boat chute.
- Review of design drawings (dated November 5, 2011):
    - It does not appear that an adequate cutoff at the crest of the structures is included in the design – Cutoff is shown as one boulder below crest with no dimension or elevation indicated (Sheet 2).
    - Design elevations for the depth of toe protection do not appear to be included on the design drawings. A note stating "1.5' Min. Keyed into Bedrock or Below Scour Depth" – Scour depth or bedrock elevation not indicated (Sheet 2)
    - Constructed boat chute differs from design details. Design drawings note "grout held back 6 to 8-inches" for the grouted boulder chute invert. It appears the chute is grouted to the top or above the boulders. The lip (downstream portion) of the chute appears horizontal where it is shown as sloped in the design drawings.
- Whitewater Performance: Green wave not retentive enough for surfing and very shallow (>1') at river flow observed (low flow) – low recreational value. Josh Skupta indicated that feature is shallow at all typical river flow levels including spring runoff. Hydraulic is powerful and retentive at medium to high flows suitable for advanced paddlers. There have been reported issues with rafts being stuck in hydraulic at higher flows.

Feature #2 – Drawing 2

- Structural damage/instability was observed:
    - Damage Moderate – multiple locations/types of structural damage; low to medium probability of partial or complete structure failure (inability to capture and control water) in the near future. Should Feature #3 suffer significant failure, there would be a high probability of rapid failure of Feature #2 due to increase hydraulic drop and lowered bed elevation.
    - Large boulders along the downstream edge of the feature shoulders (at sides) and boat chute invert have separated from the structure.
    - Undercuts exist in several locations along the downstream edge of the shoulders. It is likely undercutting is also present in the boat chute (boat chute was not inspected due to high water velocities and aeration).
    - Significant grout cracks and separation from surrounding boulders exists in the river left and right shoulders. It is possible similar cracking is occurring in the boat chute (unable to inspect).
    - Water could be heard flowing under boulders on the river right shoulder.

- Scour: Pool scour depth estimated at 10 feet below water surface. It is likely that deeper scour occurs during larger flow events. Design drawings provided do not indicate a design pool scour depth.
- Safety: structure undercuts, structure debris in pool and cracks in grout may pose some existing safety issues related to impact injuries, foot or extremity entrapment, and entrainment/entrapment. However, these concerns are not nearly as significant as those identified below. Further structural failure could however result in more substantial safety problems.
- Review of Design Drawings: Drawings are schematic in nature that lack detail necessary for review of structure design. Drawings are plan view only without sections, profiles, or construction details for structures. Invert elevations and dimensions of boat chutes are shown.
- Whitewater Performance: the green wave in the center of the feature is not retentive enough for surfing, wave, or hole tricks. A hole at river left is playable for intermediate to advanced boaters at the river flow observed (low flow) – limited recreational value. Josh Skupta indicated that the feature performs well at medium to high flows typical in spring and early summer. He indicated that it is good for intermediate to advanced boaters at these flow levels.

<u>Feature #3 – Drawing 2</u>

- Substantial structural damage/instability was observed:
    - Damage Significant – Widespread and extensive damage to structure; high probability of complete or partial structure failure (inability to capture and control water) in the near future.
    - Large boulders along the downstream edge of the feature shoulders (at sides) and boat chute invert have separated from the structure.
    - Large undercuts exist in several locations along the downstream edge of the shoulders. It is likely undercutting is also present in the boat chute (boat chute was not wet inspected due to high water velocities and aeration). A void (12-inches wide x 24" long) in the grouted boulder boat chute was observed indicating likely undercutting.
    - Significant grout cracks and separation from surrounding boulders exists in the river left and right shoulders. It is probable that similar cracking is occurring in the boat chute (unable to inspect).
    - Piping under structure – Water could be heard flowing under boulders on the river right shoulder and a "sink hole" of cobble material between large boulders was observed at the river left shoulder.
- Scour: Pool scour depth observed estimated at 15 feet below water surface. It is likely that deeper scour occurs during larger flow events. Design drawings provided do not indicate a design pool scour depth.
- Tailwater Degradation: It is likely that the river bed downstream has lowered (degradation). A photo from 2003 (Figure 1) shows a boulder structure downstream of the pool that was not apparent during the site evaluation. In addition the hydraulic jump appears to "drop off" the lip of the structure. Typically the jump is design to

occurs at the lip, possibly indicating a lower tailwater condition than designed (or the structure length is shorter due to toe failure). Without design water levels in the pool over a range of flows or topographic/bathymetric survey data of the pool and river downstream it is difficult to determine the extent of the degradation in the tailwater elevation.

Figure 1 *– Compare River Downstream Feature #3 (2003) w/ Current Condition*

- Safety: large structure undercuts, piping under structure (voids with flow water), debris in pool and large cracks in grout pose safety problems – impact injuries, foot or extremity entrapment. Pinning or entrapment against an obstruction and entrainment/entrapment into structure are of concern. This is greater concern for an under-equipped/inexperienced user during lower flows. A complete or partial failure of this feature would likely pose a significant safety risk to users due to debris and undercuts in high velocity areas and/or formation of overly retentive hydraulics at Feature #3 or Feature #2 upstream. A failure of a similarly designed and constructed whitewater feature in Green River Wyoming resulted in a fatality when a user was entrapped in the structure debris.
- Review of Design Drawings: Drawings are schematic in nature that lack detail necessary for review of structure design. Drawings are plan view only without sections, profiles, or construction details for structures. Invert elevations and dimensions of boat chutes are shown.
- Whitewater Performance: Green wave in center difficult to surf, variable hydraulic conditions were observed at the wave shoulders. Unusual hydraulic was occurring on river left of boat chute- likely a result of movement of boulders. Josh Skupta indicated that feature performance is generally poor at low river levels and satisfactory at moderate to high flows that are typical in the spring and early summer. Improved wave performance is desired. At higher river levels the hydraulic at the boat chute was reported to become more powerful and can be "trashy". The feature is suited for intermediate to advanced boaters.
- Review of Design Drawings: Drawings are schematic in nature that lack detail necessary for review of structure design. Drawings are plan view only without sections, profiles, or

construction details for structures. Invert elevations and dimensions of boat chutes are shown.

RECOMMENDATIONS

General Whitewater Park Recommendations

- Frequent inspection of all the structures at the Park and at varying flow rates. Look for:
  - Overly retentive, unusual, or different hydraulic conditions.
  - New or changes in the boulders or rocks in the pools downstream of each structure.
  - Debris such as logs accumulating at structures.
  - Bank instability such as rocks moving on the banks or new steep drops in the grade.
  - Lowering of the water surface downstream of each structure. This can result in overly retentive hydraulic conditions and increase scour.
  - Lowering of the water surface upstream of each structure. This would be an indication of the failure of the crest of the structure and possible flow paths below structure.
- Once problems are identified:
  - Remove hazardous debris at or in the vicinity of the structures.
  - Repair or otherwise mitigate problems with failed or destabilized banks and structures as allowed by current river flows.
  - If significant hazards are created, consider closing this reach to in-river recreation until repairs can be made. At a minimum, potential hazards should be posted to notify the public. Note that repairs are particularly difficult if not impossible to be made during spring runoff.

Feature #1 Recommendations:

From the review of available documents, it appears that Feature #1 was designed and constructed similarly to downstream structures. Although structural problems were not observed during the site evaluation, it is likely that problems will develop in the future based on performance of downstream structures. In addition, piping and uplift forces on this structure are greater due to the much larger hydraulic drop than downstream structures. Ultimately it is likely that the following modifications may be necessary:

- Install a subsurface cutoff along the upstream end of the crest.
- Install toe protection along downstream edge – replace boulders that have moved and extend boulders sufficiently below scour depth in pool
- Armor pool with well-graded riprap. This will reduce the required depth of toe protection by limiting pool scour.
- Modification to improve recreational performance – particularly at the downstream end of the structure.

Modifications to this feature are considered low priority relative to repairs recommended at other structures. Therefore, MWDG has excluded these from further budgeting and design consideration in the memorandum but could be added if requested by the County.

Recommendations for Features #2 and #3 (See Drawing 6):

- Install a subsurface cutoff along the upstream end of the crest.
- Remove & replace the boat chute and portions of both shoulders – re-grade and compact subgrade material, reset boulders and re-grout. (Alternatively, injection grouting or other technique may be less costly.)
- Install toe protection along downstream edge of structure – replace boulders that have moved and extend boulders sufficiently below scour or armored depth in pool.
- Armor pool with well-graded riprap – will reduce the required depth of toe protection by limiting pool scour depth
- Install a loose boulder counter weir downstream of Feature #3.

Recommended approach to park repairs (numbered by perceived priority):

1. Repair Feature #3 and construct counter weir as soon as practicable. Temporary measures to shore up structure may be prudent. Immediate execution of an expedited design would be required if repairs are to be made this winter.
2. If funding is available, repair Feature #2 at the same time or alternatively, after Feature #3 is repaired.
3. Continue to observe Feature #1 for signs of failure and movement of boulders. Alternatively some or all of the recommended improvements could be made to avoid potential structural failures and/or improve recreational performance.

BUDGET PLANNING

Table 4 below summarizes opinion of probable costs for budget planning purposes based on MWDG's proposed recommendations and a typical design-bid-build contract. A more detailed opinion of cost would be prepared during preliminary design (30%) that would further refine project costs.

***Table 4** – Gunnison Whitewater Park Budget Summary*

	Budget Range*	Improvement Summary
Feature #2	$200k - $330k	Dewatering, cutoff, toe protection/armor pool, structure modifications, improve whitewater performance
Feature #3	$240k - $400k	Dewatering, cutoff, toe protection/armor pool, structure modifications, improve whitewater performance
Counter weir	$40k - $60k	Dewatering, riprap counter weir structure downstream of Feature #3 to control tailwater

*Budget prepared based on design-bid-build contract. Budget includes design fees (15% of construction value). Unit prices based on pricing for recent MWDG project. Local costs will vary. It was assumed that the County has boulders available for construction. Use of county staff and equipment would likely reduce budget significantly.

Table 5 summarizes the opinion of probable costs for materials only. This may be useful for budget planning if the County chooses to utilize staff and equipment to build the repairs.

Table 5 *– Gunnison Whitewater Park Budget Summary* *Material Costs Only*

	Budget Range*	Improvement Summary
Feature #2	$55k - $90k	Dewatering, cutoff, toe protection/armor pool, structure modifications, improve whitewater performance – Materials Only
Feature #3	$75k - $125k	Dewatering, cutoff, toe protection/armor pool, structure modifications, improve whitewater performance – Materials Only
Counter weir	$12k - $20k	Dewatering, riprap counter weir structure downstream of Feature #3 to control tailwater – Materials Only

*Budget prepared for material costs only. Imported boulders material costs included loading and hauling to site from a County source (boulders not purchased).

NEXT STEPS

- Temporary Repair of Feature #3 – The County may want to consider temporary repairs to shore up the feature. Currently Feature #3 is in poor condition and will continue to degrade over time.
- Funding – Identify potential grant opportunity and other funding sources.
- Design – Should the County choose to move forward with some or all of the recommended modifications, design of the improvements will be necessary.
    - Gather site information – Survey, measurement of water surface elevations at varying river flows, soils evaluation
    - Preliminary Design – 30% level to define improvements and estimate project costs
    - Final Design/Construction Documents
- Permitting – make contact with USACE to determine if a Nationwide CWA 404 or Individual CWA 404 is required, Colorado State Department of Public Health & Environmental (construction discharge permit & CWA 401), local permits (grading, floodplain, building, etc.). MWDG can facilitate this effort if requested.

Additional documents would be useful during design. MWDG requests the following documents from the County:

- Construction inspection reports/photos

- Available mapping – Aerial photos, aerial/LiDAR surveys
- Soils information – upstream bridge
- Current planning documents - Master Plans for Gunnison Whitewater Park (most recent document), river corridor, city, trails, other
- Existing FEMA workmaps and hydraulic models – if available

REFERENCES

1. Interview Gunnison County Staff Marlene Crosby, Josh Stupka, Blaine Mazzuca, October 3, 2013.

Attachment G

GUNNISON COUNTY
CERTIFICATE OF MINOR IMPACT APPROVAL

CERTIFICATION NO. 19, SERIES 2003

AN ACTION APPROVING LAND USE CHANGE PERMIT APPLICATION NO. 2003-52, A LAND USE CHANGE PERMIT FOR APPROVAL TO EXPAND RECREATIONAL RIVER USES AND AMENITIES WEST OF THE CITY OF GUNNISON, LOCATED IN TR IN SW4SW4 SEC 2 & SE4SE4 SEC 3 49N1W 11.995 ACRES AND 2.226 IN SE4SE4 SEC 3 49N1W AND 3.55 ACRES IN SE4SE4 SEC 3 49N1W.

WHEREAS, John DeVore, representing Gunnison County, has applied for a Land Use Change Permit to expand recreational river uses and amenities west of the City of Gunnison, on property located south of State Highway 50 and west of Gold Basin Road, south of City of Gunnison. Three parcels, owned by the Board of Commissioners of Gunnison County are as follows:

- TR IN SW4SW4 SEC 2 & SE4SE4 SEC 3 49N1W 11.995 ACRES TOTAL B681 P325 #531896: TOTAL PARCEL = 11.995 AC, 216 SQFT and 440 SF
- 2.266A IN SE4SE4. SEC 3 49N1W, B702 P330-333: TOTAL 2.266 AC
- 3.55 ACRES IN SE4SE4 SEC 3 49N1W #525582

AND, WHEREAS, Section 4-405 of the *Gunnison County Land Use Resolution* defines a process of review for Minor Impact projects, and after a review of relevant facts related to the proposed land use change's compliance with the *Resolution* the Gunnison County Planning Commission finds the following:

1. This application is defined as a Minor Impact.
2. The construction of structures and other amenities in the park were, and are required to obtain a Reclamation Permits from the Gunnison County Public Works Department before construction. As noted, the Gunnison County Public Works Department has been actively involved in the creation of the project, and is responsible for oversight to ensure that the construction complies with the requirements related to the Reclamation Permit.
3. The applicant has indicated that participants will be encouraged to utilize shuttle services. The Commission agreed that use of such services should be encouraged, that there will be no parking allowed along residential streets in the area, and along U.S. Highway 50, but that parking would be allowed along the access road into the park.
4. The applicant indicated approximately five large events are contemplated annually. The Commission agreed that standards usually imposed upon special events (as regulated by Section 3-301, *Special Events* of the *Gunnison County Land Use Resolution*) are appropriately applied to these events, and compliance with those requirements is a condition of this Permit.
5. This use is required to comply with Section 5-407: *Installation of Solid Fuel-Burning Devices*, as amended.

537344
Page: 1 of 5
12/08/2003 09:42A
S Dominguez Gunnison Cty Co 951 R 0.00 D 0.00

6. Signs were constructed and located onsite without the Sign Permits required by this Section. The Planning Commission has reviewed the construction and appearance of those signs, and finds them to be in compliance with the design requirements of this Section, and incorporates them as elements of this Land Use Change Permit.

7. No permanent satellite dish reception or transmission device is proposed to be installed. Use of such devices for temporary purposes shall be subject to approval by the Gunnison County Airport Manager.

8. Construction of covered shelters in the picnic area are subject to approval by the Gunnison County Airport Manager.

9. The applicant's engineer has listed requirements of activities and their locations that are required to occur in a manner to comply with requirements of the Federal Aviation Administration. The Commission finds that these requirements are in the best interest of the public, health, safety and welfare; they are as follows:

   - Parking for Picnic area 1A will be located north of the Runway 6 RPZ.
   - Restroom (RR1) will be located north of Runway 6 RPZ.
   - The Multi-Purpose Building will not be considered for this site at this time.
   - Picnic area 1B and Picnic area 2 will be located inside the Runway 6 RPZ, but below the approach surface.
   - Restroom (RR2) will be located inside Runway 6 RPZ, but below the approach surface.
   - Public utilizing Picnic area 1B and Picnic area 2 will park vehicles north of Runway RPZ. Access to these areas will be via walking path.
   - Occasional vehicles will utilize the walking path for maintenance equipment (i.e. mowers, restroom cleaning equipment).
   - It is estimated that not more than 50 people will utilize the facilities at one time.

10. The applicant is required to contact the Colorado Department of Public Health and secure either a Stormwater Discharge Permit, if required, or a letter from the Department indicating that no permit is required. Because construction has already occurred onsite, the applicant's notification of the Department shall include both constructed and proposed elements on the site plan.

11. Exterior lighting is required to comply with the standards in the *Gunnison County Land Use Resolution*. The applicant has indicated that lights will be supplied for the public restroom, but that no light will stay lighted past 10 p.m., and this Permit is subject to compliance with this restriction. The applicant has not yet provided the required exterior lighting plan; the applicant is required to submit a lighting plan, which is subject to approval by the Gunnison County Airport Manager and the Planning Department.

12. No documentation has been submitted as to the water rights for development of the recreational resource itself, but a review of Board minutes by the Planning Department indicates that an intergovernmental agreement was signed between the Upper Gunnison River Water Conservancy District and the County. A copy of that agreement is required to be submitted.

13. This application, subject to the conditions of approval identified in this Decision, complies with all applicable requirements of the *Gunnison County Land Use Resolution.*

14. The use of the area as a park is expected to generate a minor impact on the impact area, on the environmental resource, which is the river and the banks beside it, and within the floodplain. It is reasonable to assume that provision of significant amenities at this site will attract recreational users,

and therefore increases uses of and impacts to the area.

15. The proposed land use change is compatible with the character of existing land uses in the area, and will not adversely impact the future development of the surrounding area.

16. This Decision is made in reliance on the present and continued existence of all physical features of the property (geological, topographical and vegetative including trees) cited in this Decision as mitigating a possible conflict with County land use policies.

17. This permit is limited to activities described within the "Project Description" of this application, and as depicted on the site plan as submitted. Expansion or change of this use will require either an application for amendment of this permit, or submittal of an application for a new permit, in compliance with applicable requirements of the *Gunnison County Land Use Resolution.*

18. This review and decision incorporates, but is not limited to, all the documentation submitted to the County and included within the Planning Office file relative to this application; including all exhibits, references and documents as included therein.

NOW, THEREFORE, Land Use Change application No. LUC-2003-52 is approved as a Minor Impact project, and is so certified by the undersigned, and subject to the following conditions:

1. Domestic animals are required to be controlled by kenneling, leash, fencing or other physical constraint; livestock kept on the property shall be maintained pursuant to Section 3-308: *Keeping of Livestock Not On An Agricultural Operation.*

2. Participants will be encouraged by the Gunnison County to utilize shuttle services. There will be no parking allowed along residential streets in the area, and along U.S. Highway 50, but that parking is allowed along the access road into the park.

3. No permanent satellite dish reception or transmission device is proposed to be installed. Use of such devices for temporary purposes shall be subject to approval by the Gunnison County Airport Manager.

4. This Permit is subject to the following restrictions:

   - Parking for Picnic area 1A will be located north of the Runway 6 RPZ.
   - Restroom (RR1) will be located north of Runway 6 RPZ.
   - The Multi-Purpose Building will not be considered for this site at this time.
   - Picnic area 1B and Picnic area 2 will be located inside the Runway 6 RPZ, but below the approach surface.
   - Restroom (RR2) will be located inside Runway 6 RPZ, but below the approach surface.
   - Public utilizing Picnic area 1B and Picnic area 2 will park vehicles north of Runway RPZ. Access to these areas will be via walking path.
   - Occasional vehicles will utilize the walking path for maintenance equipment (i.e. mowers, restroom cleaning equipment).
   - It is estimated that not more than 50 people will utilize the facilities at one time.

5. The applicant is required to comply with the following: Roof materials of any structures shall be made of non-combustible "Class A" materials and roofs shall employ a design that is pitched.

6. Construction of covered shelters in the picnic area are subject to approval by the Gunnison County Airport Manager.

537344
Page: 2 of 6
12/08/2003 09:42A
S Dominguez Gunnison Cty Co 951 R 0.00 D 0.00

7. This permit allows the operation of five large events on this site annually. Standards usually imposed upon special events (as regulated by Section 3-301, *Special Events* of the *Gunnison County Land Use Resolution*) are appropriately applied to these events, and compliance with those requirements, as detailed and modified herein, is a condition of this Permit.

   a. First aid and other emergency services shall be provided by Gunnison County in consultation with the Gunnison County Sheriff, the applicable Fire District, and the applicable Emergency Services agency; Gunnison County may be required to develop and submit a plan for traffic circulation and control, including requirements for parking and for emergency service vehicle access before, during and after the event. The adequacy of the plan shall be determined by the consulted agencies.

      1. The Sheriff's Department shall have the authority to estimate the anticipated number of persons in attendance, and determine if law enforcement personnel will be needed to regulate traffic associated with the event. The Sheriff shall have the authority to require that law enforcement be provided at the applicant's expense to monitor crowd control during the event. The estimated cost of such traffic control or other activity shall be the responsibility of Gunnison County.

      2. Parking space and signs for parking shall adequately address anticipated parking demands, pursuant to Section 5-410: *Off-Road Parking and Loading*. In no case shall parking be allowed along any shoulder of any road, except the access road into the park, and vehicles shall not be parked in any manner that would create a traffic hazard as determined either by the Sheriff's Department or the Department of Public Works.

      3. Use of tents or other camping shelters or other temporary structures shall meet the requirements of the Gunnison fire protection district. When the district's standards conflict with County standards, the County shall only require compliance with County standards. Location of temporary structures shall be required to meet setback requirements, pursuant to Section 5-404: *Setbacks from Property Lines*.

      4. Any electrical hookups shall comply with the requirements of the City of Gunnison, or rural electric association provider.

   b. Food service licenses and liquor licenses shall be obtained as required by the Colorado Department of Public Health and Environment, Consumer Protection Division, and by the Office of the Gunnison County Clerk and Recorder, respectively.

   c. Adequate toilet facilities shall be required. If the permanently-constructed public restroom cannot fulfill these requirements, the appropriate number of temporary portable toilets shall be provided.

      1. A minimum of one toilet facility shall be provided to serve an anticipated attendance of each 25 people.

      2. Public or common use toilets shall comply with the federal *Americans with Disabilities Act* accessibility guidelines, which require that five percent of the total number, no fewer than one toilet facility per each cluster of toilet facilities, must be accessible to guests with disabilities.

   d. Gunnison County shall provide for the collection of trash and litter. All solid waste shall be deposited as required by the Gunnison County Department of Public Works.

      1. Separate containers shall be provided for the collection of recyclable materials.

2. All solid waste, litter and recyclable materials shall be removed from the site within 24 hours following the event.

3. For multiple-day events, the grounds shall be maintained during each day of the event with no accumulations on- or offsite that would create a nuisance or pose a health hazard.

e. All grandstands, bleachers, scaffolding and platforms shall be constructed in compliance with requirements of the Gunnison County Building Office in the Planning Department. When determined necessary by the Building Inspector, plans showing structural details shall be submitted for review before construction begins.

f. All mechanical equipment associated with amusement rides shall conform to the applicable requirements of U.S. Consumer Product Safety Commission. All applicable licenses or certifications shall be provided to the Planning Department as a condition of permit issuance. The Planning Department reserves the right to require an inspection by a qualified professional engineer licensed in the State of Colorado at the applicant's expense in addition to any inspections required by the Safety Commission.

g. Unreasonably loud and disturbing noise that the County reasonably determines to be a public or private nuisance is prohibited.

h. Hours during which the normal activity of a special event may take place shall be between 7 a.m. and 11 p.m.

i. All domestic and exotic animals shall be confined to the parcel on which the special event is permitted, and shall be controlled by kenneling, leash, fencing or other physical constraint.

j. The County shall be responsible for ensuring that the operation of the event complies with the objectives and policies of the Three Mile Plan, and the Intergovernmental Agreement between the County and the City of Gunnison regarding the three-mile plan area. Where there is a conflict between the objectives or policies of a three-mile plan or the intergovernmental agreement, and County standards, County standards shall apply.

k. The County Attorney shall determine whether a general liability insurance policy in an amount to be reasonably determined by the County Attorney will be in effect for the duration of the special event. The County, its officials, employees and agents, and owners of adjacent property as reasonably determined by the County shall be named as additional insured parties in the policy, if such a policy is required.

8. Exterior lighting is required to comply with the standards in the *Gunnison County Land Use Resolution*. The applicant has indicated that lights will be supplied for the public restroom, but that no light will stay lighted past 10 p.m., and this Permit is subject to compliance with this restriction. The applicant has not yet provided the required exterior lighting plan; the applicant is required to submit a lighting plan, which is subject to approval by the Gunnison County Airport Manager and the Planning Department.

9. The applicant is required to contact the Colorado Department of Public Health and secure either a Stormwater Discharge Permit, if required, or a letter from the Department indicating that no permit is required. Because construction has already occurred onsite, the applicant's notification of the Department shall include both constructed and proposed elements on the site plan.

537344
Page: 5 of 6
12/09/2003 09:42A
D 0.00
6 Dominguez Gunnison Cty Co 961 R 0.00

10. Signs were constructed and located onsite without the Sign Permits required by this Section. The Planning Commission has reviewed the construction and appearance of those signs, and finds them to be in compliance with the design requirements of this Section, and incorporates them as elements of this Land Use Change Permit.

11. The construction of structures and other amenities in the park were, and are required to obtain a Reclamation Permits from the Gunnison County Public Works Department before construction. As noted, the Gunnison County Public Works Department has been actively involved in the creation of the project, and is responsible for oversight to ensure that the construction complies with the requirements related to the Reclamation Permit.

12. A copy of the intergovernmental agreement between the Upper Gunnison River Water Conservancy District and the County, ensuring water rights for use of the river for the described recreational uses is required to be submitted.

13. This permit is limited to activities described within the "Project Description" of this application, and as depicted on the site plan submitted as part of this application. Expansion or change of this use will require either an application for amendment of this permit, or submittal of an application for a new permit, in compliance with applicable requirements of the *Gunnison County Land Use Resolution.*

14. This permit may be revoked or suspended if Gunnison County determines that any material fact set forth herein or represented by the applicant was false or misleading, or that the applicant failed to disclose facts necessary to make any such fact not misleading.

15. The removal or material alteration of any physical feature of the property (geological, topographical or vegetative) relied on herein to mitigate a possible conflict shall require a new or amended land use change permit.

THIS CERTIFICATION AND THE PERMIT GRANTED HEREBY shall not be effective unless and until a copy is recorded in the Office of the Clerk and Recorder of Gunnison County.

/s/ Joanne M. Williams
Director of Planning

ATTEST:

Gunnison County Clerk and Recorder

GUNNISON COUNTY SEAL COLORADO

537344
Page: 6 of 6
12/08/2003 09:42A
D 0.00
5 Dominguez Gunnison Cty Co 951 R 0.00

Attachment H

BIO-ENVIRONS
114 N BOULEVARD SUITE 206
GUNNISON, COLORADO 81230
970.641.8749 P
Tim.bioenvirons@gmail.com

February 24, 2014

To: Gunnison County Road and Bridge/Marlene Crosby.

From: Bio-Environs

Subject: USACE permitting associated with a proposal to repair two features at the Gunnison Whitewater Park.

DESCRIPTION OF PROJECT: Gunnison County has identified structural issues associated with two whitewater features (constructed drop structures) that exist at the Gunnison Whitewater Park. Concerns associated with the identified structural issues include; user / public safety, channel stability in the vicinity of and below the drop structures, sustainability and performance of the recreational features in general. Proper repair of the features could also alleviate the need for the regular maintenance of the features that has occurred in the past.

Upon review of the background of this project including past correspondence with regulatory agencies as well as an evaluation of the current proposal to repair the identified features, it appears that authorization of the work necessary to repair the structures would require authorization by the USACE for work performed in regulated "waters of the U.S." Based on the evaluation provided by McLaughlin Whitewater Design Group, application for USACE Nation Wide Permits # 3 (Maintenance) and #33 (Temporary Construction, Access and Dewatering) would be required before commencement of the repair work.

The permit process would include; identification of regulated water features, including wetlands if located within the project perimeter, and the Ordinary High Water Mark of the river associated with the project area; a pre-application meeting with the Army Corps of Engineers; preparation of a USACE preconstruction notification (PCN); and application for the above mentioned authorized NWP permits. Plan and cross sections of the proposed repair activities will be prepared by McLaughlin Whitewater Design Group, and these will be submitted with the permit application. Activities to stabilize Feature 1 (75 Ditch Diversion) will likely not be regulated as this is a water diversion for agricultural use. However, the permit application will identify this feature and activity and request an opinion regarding regulation.

The yellow-billed cuckoo is a candidate species for federal listing as a threatened or endangered species. It breeds in dense willow and cottonwood stands in river floodplains. Bio-Environs will request an informal opinion from the US Fish and Wildlife Service indicating that the activity will have no effect on the bird. Since the activity is relegated to work within the river and that no destruction of willow or cottonwood habitat is anticipated, it is Bio-Environs' opinion that no endangered or threatened species will be impacted by the project. In addition, Bio-Environs will ensure that previous correspondence from the Colorado Historical Society (letter dated December 2, 1999) is included in the PCN. This letter indicated that no cultural resources within the area of effect.

Project construction would be required to adhere to the guidelines provided by the authorized permits.

Under normal circumstances, the processing for USACE permit applications associated with this proposal would require approximately 1 month for field work and reporting and approximately 1 month to prepare USACE Nationwide Permit application provided all of the aforementioned information required to submit permit application is available. USACE has a 45 day response time in the authorization of a NWP.

An estimated cost for the entire permit process is approximately $4,000.00.

Please contact me with any questions,

Tim Lapello
Bio-Environs

Attachment I

Gunnison County
COLORADO

Monthly Revenue/Expense Report - Cost Centers

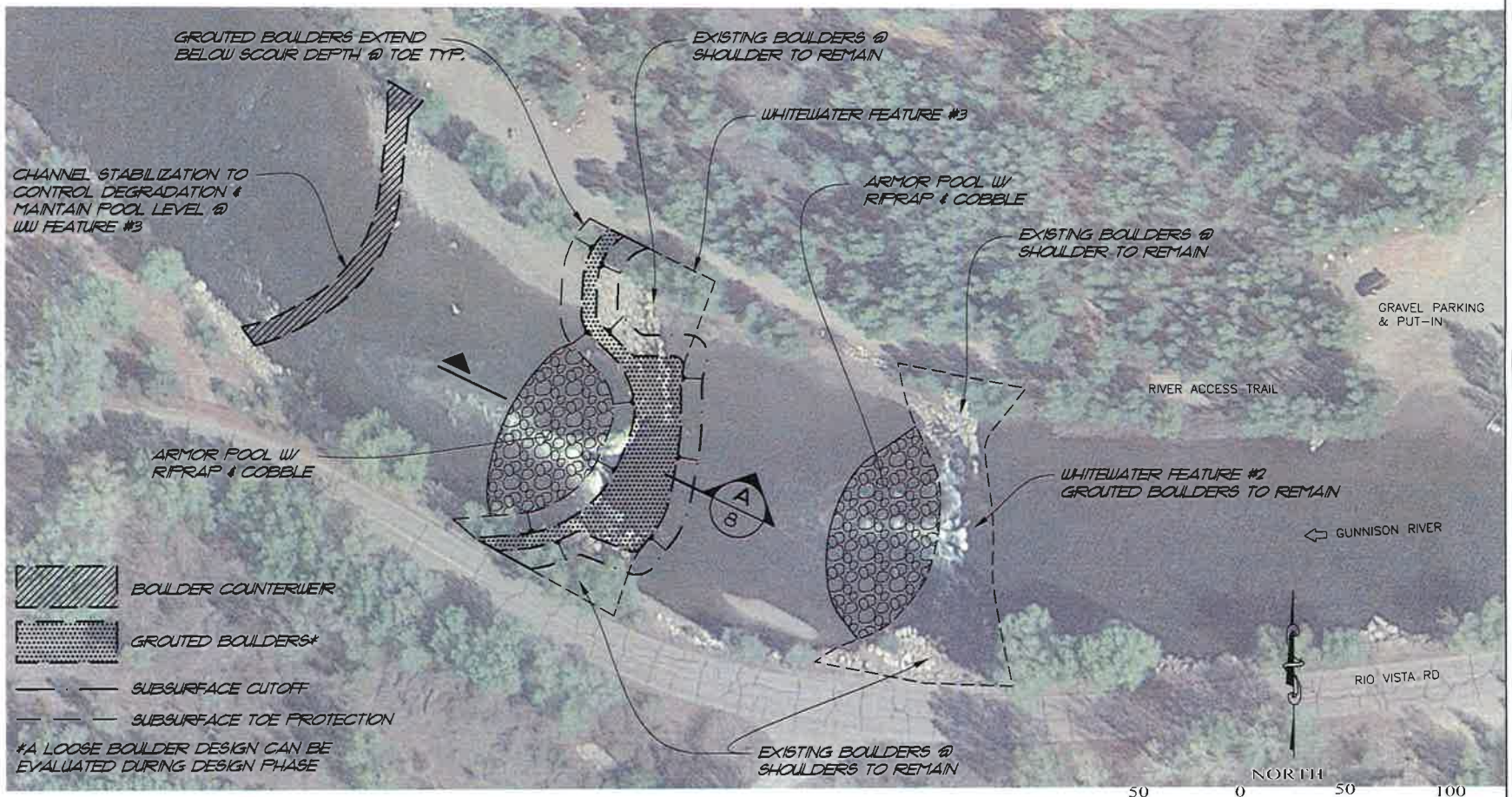
Fiscal year thru period ending 01/31/2014

Trails - Parks

01 338-00 000-0

Description	Actual PTD 1/31/2014	Actual YTD 1/31/2014	Budget	Budget Variance	% Budget Used
5111 Salaries-Full Time	.00	.00	5,537.00	5,537.00	.00
5210 Payroll Tax -FICA	.00	.00	344.00	344.00	.00
5220 Health Insurance	.00	.00	1,846.00	1,846.00	.00
5230 Retirement	.00	.00	277.00	277.00	.00
5240 Unemployment Insurance	.00	.00	8.00	8.00	.00
5250 Workmans' Comp Insurance	.00	.00	295.00	295.00	.00
5260 Employee Assistance Premium	.00	.00	4.00	4.00	.00
6120 Operating Supplies	.00	.00	1,000.00	1,000.00	.00
6412 Steel & Iron	.00	.00	75.00	75.00	.00
6418 Sign Materials	.00	.00	200.00	200.00	.00
6428 Gravel & Sand	.00	.00	1,000.00	1,000.00	.00
6499 Other Materials	.00	.00	50.00	50.00	.00
6630 Education/Promotion	.00	.00	100.00	100.00	.00
7040 Trash Removal/Disposal Fees	.00	.00	100.00	100.00	.00
7241 Repair & Maint - Other	.00	.00	100.00	100.00	.00
7320 Engineering	.00	.00	2,486.00	2,486.00	.00
7329 Other Professional Services	.00	.00	2,500.00	2,500.00	.00
7331 Meetings-Meals	.00	.00	50.00	50.00	.00
7340 Rental - Equipment	.00	.00	2,500.00	2,500.00	.00
7470 Insurance & Bonds	.00	.00	95.00	95.00	.00
7492 Equipment Usage	.00	.00	2,000.00	2,000.00	.00
7500 Contributions	.00	.00	5,000.00	5,000.00	.00
Total Expenditure	.00	.00	25,567.00	25,567.00	.00

Attachment J



PRELIMINARY NOT FOR CONSTRUCTION

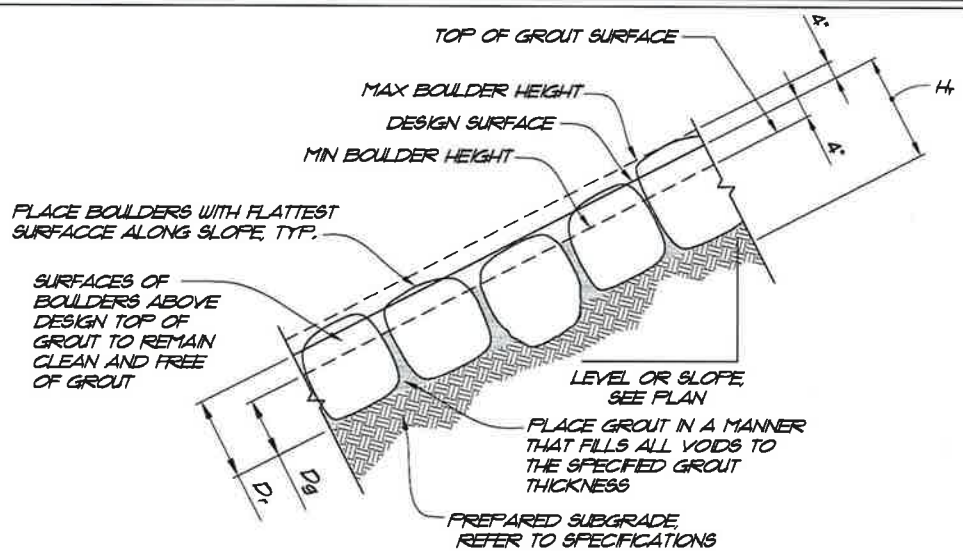
MARCH 2014

NOTE: PROPOSED IMPROVEMENTS SHOWN ARE PRELIMINARY. SIZES, MATERIAL TYPES, CONSTRUCTION DETAILS AND LAYOUT TO BE DETERMINED DURING FINAL DESIGN PHASE.

GUNNISON WHITEWATER PARK GUNNISON COLORADO	WHITEWATER FEATURE #2 & #3 REPAIR SITE PLAN	McLaughlin Whitewater Design Group A DIVISION OF MERRICK & COMPANY 3420 Alcott St Denver, CO 80211 P303.964.3333 F303.964.3355	6

R:\1 MWDC ACTIVE JOBS\GUNNISONWWP\DRAWINGS - AUTOCAD Last Saved February 26, 2014

Attachment K-M



SINGLE-LAYER GROUTED BOULDER TABLE					
USED THIS PROJECT	SURFACE BOULDER Designation	D_r MIN	D_g	H_r	
				MIN	MAX
	B18	18	12		
	B24	24	16		
X	B30	30	18	30	38
	B36	36	24		
	B42	42	30		
	B48	48	36		
ALL DIMENSIONS IN INCHES					

TYPICAL SINGLE LAYER GROUTED BOULDER PLACEMENT WITH RECESSED GROUT

DETAIL 1/6

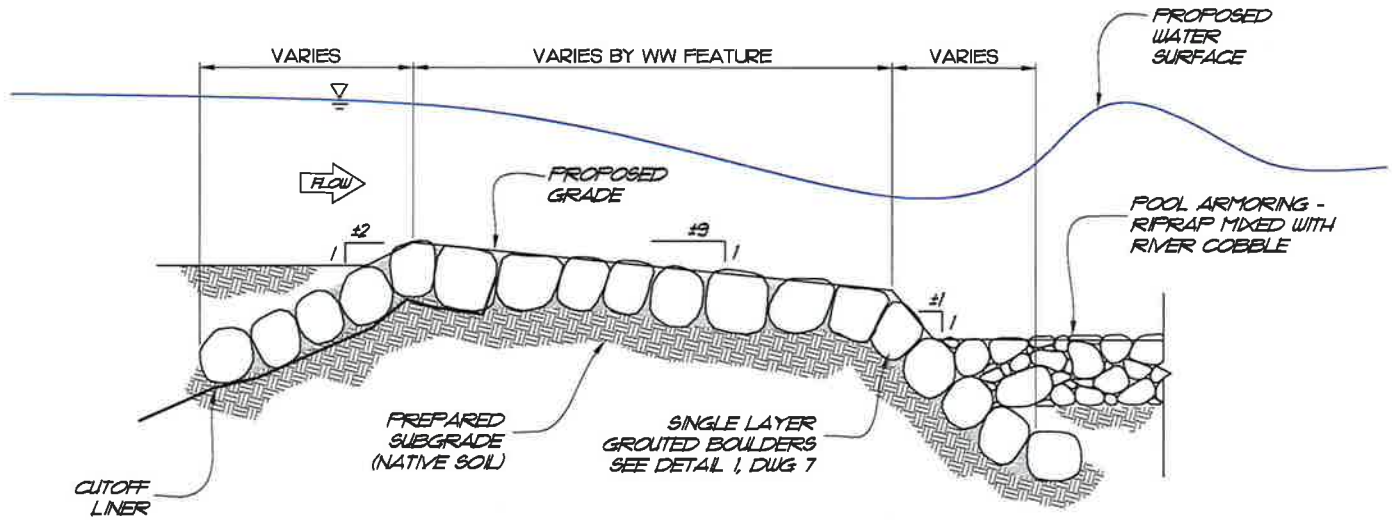
NTS

PRELIMINARY NOT FOR CONSTRUCTION

MARCH 2014

GUNNISON WHITEWATER PARK GUNNISON COLORADO	WHITEWATER FEATURES BOULDER DETAIL	McLaughlin Whitewater Design Group A DIVISION OF MERRICK & COMPANY 2420 Alcott St. Denver, CO 80211 P303.964.9933 F303.964.9955	7

R:\1 MWOC ACTIVE JOBS\GUNNISONWWP\DRAWINGS – AUTOCAD Last Saved February 26, 2014



TYPICAL WHITEWATER STRUCTURE

SECTION A/6

NTS

PRELIMINARY NOT FOR CONSTRUCTION

MARCH 2014

GUNNISON WHITEWATER PARK GUNNISON COLORADO	WHITEWATER FEATURE DETAIL	Laughlin Whitewater A DIVISION OF MERRICK & COMPANY	8

R:\ MWDG ACTIVE JOBS\GUNNISONWWP\DRAWINGS - AUTOCAD Last Saved February 26, 2014