

From: JBraico@aol.com [<mailto:JBraico@aol.com>]
Sent: Monday, November 06, 2000 9:50 PM
Subject: Re: ausable trout

I have re attached the document (a summary prepared for a grant request from TU National). (We were awarded the maximum via the Embrace a Stream program, \$10K for this project in 3/99.) To be safe, I am also copying it directly into this note.

Please note this was written 11/98 and reflected projections at that time. Primary survey work was not completed until 12/99 due to the extensive study required by our consultant. Initial report by Rocky Powell was made 3/00. Additional topographic survey (extension) by NRCS 11/2000. Final design by Rocky Powell to be submitted by the end of this month. Cost projections have increased to \$250K due to the large volume of fill required

per the preliminary design, a need to pipe the river during to construction to avoid an Indian site, and higher than projected consultant costs. If you

would like materials from Mr. Powell's 3/00 report, please advise. Thank you for your interest
Sincerely, J. Braico

Grant Request: East Branch Ausable River, Keene Valley, NY

Project: Natural channel river restoration on the East Branch of The Ausable River in Keene Valley using Rosgen methodology for channel analysis, design & installation. Restoration of reach degraded by past land practices with loss of riverine functions & habitat. Integration with watershed status & needs.

Scope: 1/2 mile of river to be restored to stable channel geometry including:

bankfull width (141' reduced to 88'), channel width/depth ratio (56 reduced to 20), riffle pool ratios, local pool & riffle slopes from reference reach. Interventions will include but are not limited to: rock vanes, J hooks, root wads, vegetative sod plantings, W weirs or cross vanes, & anchored large woody debris. Banks will be sloped to stable angles and vegetated.

Goals: increase trout habitat from 6.5% to >30% of reach length, stabilize

1160 ft of rapidly eroding bank, restore channel competence in handling bedload, reduce flooding impacts, reduce winter ice impacts (anchor ice & ice jam formation), improve invertebrate habitat by providing more stable channel substrate with reduced anchor ice formation, increase resident trout population in the reach (all stages), provide suitable spawning habitat, improve recreational potential.

Participants: Landowners, Town of Keene, Ausable River Association, NRCS

(lead agency), TU, NYS DEC, USF&W, Army Corps of Engineers, river restoration consultant (services in negotiation).

Time Frame: Survey Levels I-IV problem site, reference reach 6/98 - 5/99, calibration of bankfull indicators to gage station data 7/98-10/98 (TU, NRCS)

Design Survey 10/98 - 5/98 (NRCS, TU)
Design & Permitting: 6/99 - 9/99
Installation: 9/99 - 10/99 (fast track) with possible extension to spring 2000

Outcome monitoring: 1 year & 3-5 years post project surveys to include indices of improvement in parameters listed under goals

Funding: Requirements: \$177,000 Presently Secured: \$ 137,000 Needed grants: \$30,000

Sources:

NRCS: \$120K from: WHIP (\$10K for plantings), Bond Act

(\$95K for Rock),

Kelsey Trust (\$5K), Rivermede Farms (\$10K)
being sought: \$10K Fish America

NYS DEC: \$20,000 water quality management (nearly secured)

TU: \$15K from chapter, \$15 K from TU National +

NYSC/TU Conservation Fund (for restoration consultant)

Personnel:

TU: Don Keiffer, President Adirondack Chapter TU

John Braico, TU Project Coordinator 518 (793-1135 H)
(798-9538 W) (798-9576 Fax)

Jim Olmsted, Champlain Valley Chapter liason

NRCS: Rich Redman, Overall Project Coordinator 561-7373 (ext 3)

Terri Ruch, Regional Engineer

Andras Fehey, Engineer State Office

NYS DEC: Bill Schoch, Fisheries Biologist

Ken Kogut, Wildlife Management 897-1307

USF&W: Carl Schwartz

Army Corps of Engineers: Kim Copenhaver

Town of Keene Supervisor: Tom Both

Rivermede Farm: Rob Hastings

*Candidate consultant: Rocky Powell (Clearwater Consulting)

Prepared by John Braico,

NYS Council TU Resource Management VP

Rivermede project coordinator

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Project: Natural channel river restoration on the East Branch of The Ausable River in Keene Valley using Rosgen methodology for channel analysis, design & installation. Restoration of reach degraded by past land practices with loss of riverine functions & habitat. Integration with watershed status & needs.

Scope: ½ mile of river to be restored to stable channel geometry including: bankfull width (141' → 88'), channel width/depth ratio (56 → ~20), riffle pool ratios, local pool & riffle slopes from reference reach. Interventions will include but are not limited to: rock veins, root wads, vegetative sod plantings, W weirs or cross veins, & large woody debris. Banks will be sloped to stable angles and vegetated.

Goals: increase trout habitat from 6.5% to >30% of reach length, stabilize 1160 ft of rapidly eroding bank, restore channel competence in handling bedload, reduce flooding impacts, reduce winter ice impacts (anchor ice & ice jam formation), improve invertebrate habitat by providing more stable channel substrate with reduced anchor ice formation, increase resident trout population in the reach (all stages), provide suitable spawning habitat, improve recreational potential.

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