

**Sunoco Pipeline Penalty Grant  
Recommended Potential Projects for  
Clear Creeks Consulting & Aquatic Resources Restoration Co. (Quittapahilla Watershed Association)  
Stream Restoration Projects by Township with Cost Estimates**

**West Cornwall**

**Snitz Creek**

Project ID	Location	Length (feet)	Existing Problems	Proposed Solution	Design & Permitting	Design & Permitting Cost	Construction	Construction Cost	Total Design-Build Cost
16	Main Stem Snitz Rte 72 to Zinns Mill Rd West Cornwall	1,450	Unstable F4 channel with high to very high eroding banks and heavy sedimentation.  Directly impacted by installation of Sunoco Mariner East 2 Oil Pipeline	Restore as stable B4c stream.  Evaluate impacts of pipeline, develop solution to eliminate impacts, and incorporate into design.	Field Run Topo Survey and Base Maps, H&H, Concept and Final Design Plans Prep, Permitting NW-27	\$118,800	Restoration as stable B4c stream channel with toe wood and soil lifts or boulder outcrops and soil lifts; and boulder cobble riffles. Streambank seeding 1.0 acres and 150 trees and shrubs along streambanks	\$362,500 \$49,500 \$3,500 \$4,500 \$420,000	\$538,000

\*One Landowner already on-board, need additional approvals

**Beck Creek**

Project ID	Location	Length (feet)	Existing Problems	Proposed Solution	Design & Permitting	Design & Permitting Cost	Construction	Construction Cost	Total Cost
6	Weaver Farm DS of Rte 322	1,650	Unstable C4 channel with eroding banks and heavy sedimentation throughout. Channel still exhibits impacts from historic straightening and livestock grazing; adjacent floodplain and riparian area currently mowed for hay; lack of buffer.  Directly impacted by installation of Sunoco Mariner East 2 Oil Pipeline	Restore as a stable C4/E4 channel.  Evaluate impacts of pipeline, develop solution to eliminate impacts, and incorporate into design.  Establish a minimum of 15 feet riparian buffer to either side of stream.	Field Run Topo Survey and Base Maps, H&H, Concept and Final Design Plans Prep, Permitting NW-27	\$125,800	Restoration as stable C4/E4 stream channel with toe wood. Streambank seeding 2.27 acres and 340 trees and shrubs along streambanks	\$412,500 \$7,945 \$10,200 \$430,645	\$556,445

\*Need Landowner approvals, possibly 2 Landowners

**Cornwall**

**Snitz Creek**

Project ID	Location	Length (feet)	Existing Problems	Proposed Solution	Design & Permitting	Design & Permitting Cost	Construction	Construction Cost	Total Design-Build Cost
2	East Fork Rte 419 to Culvert St. Cornwall	2,310	Unstable B4, F4, C4, D4, F4, and B4 channels with high eroding banks along upper section, aggradation and bank erosion along middle and lower sections.	Restore as stable B4c and C4 streams. Modify right bank upstream of old roadbed in middle of project area to divert storm flows into adjacent floodplain; Excavate adjacent floodplain upstream of old roadbed to create 1.0 acre intermittently flooded wetland	Field Run Topo Survey and Base Maps, H&H, Concept and Final Design Plans Prep, Permitting NW-27	\$118,000 Stream	Restoration as stable B4c stream channel with boulder outcrops; and boulder cobble riffles. Bank grading only along upper 1,155 LF. Bank grading and installation/excavation of bankfull bench along lower 1,155 LF. Streambank seeding 1.6 acres and 240 trees and shrubs along streambanks	\$288,750 \$1,540 \$5,600 <u>\$7,200</u> \$303,090	\$421,090
						\$25,000 Wetland	Excavation and grading of wetland system 7,200 yd <sup>3</sup> Wetland seeding 1.0 acres and 150 Trees and shrubs for wetland	\$57,600 \$3,500 <u>\$4,500</u> \$65,600	

\*Need Landowner approvals – Possibly 8 landowners