

NORTH FORK JOHN DAY RIVER BASIN ANADROMOUS FISH HABITAT

ENHANCEMENT PROJECT

Annual Report for April 2004 – March 2007

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ABSTRACT

The North Fork John Day River Basin Anadromous Fish Habitat Enhancement Project continued to identify impacted stream reaches throughout the North Fork John Day Basin for habitat improvements during the 2004, 2005 and 2006 project periods. Continued public outreach and landowner coordination assisted the project in fostering public cooperation and participation. Completion of the Camas Creek Watershed Assessment, John Day Subbasin Summary and John Day Subbasin Plan provided direction to the project by identifying habitat limiting factors, geographic areas (GA's) for habitat recovery efforts, and habitat restoration measures.

New improvements continued to be implemented in project areas where easements had been secured prior to March 2004, including Snipe, Owens and Deer Creeks. Two new easements were obtained, one on the lower North Fork John Day River and the other on lower Camas Creek. Two landowners, directed by project personnel to local Farm Services Agency Offices, were successful in enrolling their properties under the Conservation Reserve Enhancement Program. Habitat improvements implemented at existing and new sites included: (1) construction of 22,183 feet of new fencing and removal of 10,824 feet of non-functional existing fencing, (2) construction of 13 new off-stream water developments and one stock water pond, (3) planting approximately 22,706 native trees and shrubs, (4) installation of 36,000 square feet of landscape fabric, 960 mulch mats and 2,224 tree shelters, (5) broadcast seeding approximately 150 pounds of native grass seed, and (6) improving a 1,100-foot reach of stream channel, which included removing 1,400 feet of levee, increasing stream sinuosity and channel form, installing six J-hook boulder vanes with large woody debris features and placement of eight whole trees in logjam complexes.

A total of approximately \$118,994 in cost share funds was obtained to assist with implementation efforts. The Umatilla National Forest, U.S. Fish and Wildlife Service, USDA Bureau of Reclamation, and North Fork John Day Watershed Council provided additional in-kind project support. This project secured \$40,510 in financial cost share from the National Oceanic and Atmospheric Administration to assist the Umatilla National Forest and Grant Soil and Water Conservation District with mine-tailing removal and channel recovery work on Clear Creek. The project provided \$5,700 in Bonneville Power Administration Funds to the Grant Soil and Water Conservation District to assist with removal of a feed lot on Granite Creek, a Middle Fork John Day River tributary. An additional \$5,000 in Bonneville Power Administration dollars was provided to the Umatilla National Forest to assist with revegetation of riparian areas, damaged by wild fires within the Cable and Hidaway Creek Drainages. LIDAR flights and associated administrative and data processing cost share funds of \$4200.00 were tied to Bureau of Reclamation efforts on Desolation Creek.

Monitoring continued to quantify baseline conditions and measure the effects of habitat enhancement actions in existing project areas. Daily stream temperatures were collected from June through September at eight sites. Photographs were taken within existing project areas and new photo points established within the Deer and Camas Creek project areas to document habitat recovery and pre-project conditions. A longitudinal profile and channel cross section data were collected within the Camas Creek Project area to assist with engineering and design work and to obtain pre-project data regarding channel morphology. Pre-project bird surveys were conducted within the Camas Creek Project Area to assist in assessing the effects of enhancements on riparian, wetland and floodplain habitat and determine potential benefits to song birds, shore birds, waterfowl and raptors.

ACKNOWLEDGMENTS

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We would like to acknowledge cooperating landowners, Steve Berrey, Betty Standley, Richard and Dorothy Allstott, Bill Neal and Robin, Andy and Bill Fletcher who supported our efforts by providing their properties for habitat enhancements.

Thanks also to Confederated Tribes of the Umatilla Indian Reservation staff, whose cooperation and contributions are evident in this report. Special thanks to Delbert Jones, James Bill and Randy Bonifer for long hours performing office duties, monitoring habitat enhancements, and implementing and maintaining improvements in project areas, to Danny Jim and Brandi Bill for secretarial services, to Julie Burke and Celeste Reeves for administrative office support, to Gary James and Jim Webster for support and guidance, and to Michelle Thompson for administration of this agreement.

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LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|---------|---|
| BA | Biological Assessment |
| BIA | Bureau of Indian Affairs |
| BI-OP | NMFS 2000 Federal Columbia River Power System Biological Opinion |
| BO | Biological Opinion |
| BOR | U.S. Bureau of Reclamation |
| BPA | Bonneville Power Administration |
| CAPECO | Community Action Program East Central Oregon |
| CBFWA | Columbia Basin Fish and Wildlife Authority |
| COE | U.S. Army Corps of Engineers |
| COTR | Bonneville Power Administration Contracting Officer's Technical Representative |
| CREP | Conservation Reserve Enhancement Program |
| CRITFC | Columbia River Inter-Tribal Fish Commission |
| CRPP | Cultural Resources Protection Program |
| CTUIR | Confederated Tribes of the Umatilla Indian Reservation |
| CTWSRO | Confederated Tribes of the Warm Springs Reservation of Oregon |
| EDT | Ecosystem Diagnosis and Treatment Model |
| EQIP | Environmental Quality Incentive Program |
| ESA | Federal Endangered Species Act |
| ESU | Evolutionary Significant Unit |
| FFFPP | Family Forest Fish Passage Program |
| FSA | Farm Services Agency |
| FY | fiscal year (refers to Bonneville Power Administration's October through September fiscal period) |
| GA | Geographic Area, as defined within the John Day Subbasin Plan |
| GAP | General Authorization Permit |
| GPS | Global Positioning Satellite |
| HIP | Bonneville Power Administration's Habitat Improvement Program |
| HUC | Hydrologic Unit Code |
| LIDAR | Light Detection and Ranging |
| LWD | large woody debris |
| MCR | Mid-Columbia River |
| MFJD | Middle Fork John Day River Basin |
| NEPA | National Environmental Policy Act |
| NFJD | North Fork John Day River Basin |
| NFJDWC | North Fork John Day Watershed Council |
| NMFS | National Marine Fisheries Service |
| NOAA | National Oceanic and Atmospheric Administration |
| NPCC | Northwest Power and Conservation Council |
| NRCS | Natural Resource Conservation Service |
| ODEQ | Oregon Department of Environmental Quality |
| ODF | Oregon Department of Forestry |
| ODFW | Oregon Department of Fish and Wildlife |
| ODOT | Oregon Department of Transportation |
| ODSL | Oregon Department of State Lands |
| OWEB | Oregon Watershed Enhancement Board |
| OWRD | Oregon Water Resources Department |
| PACFISH | Pacific Anadromous Fish Strategy (Federal) |
| PCSRF | Pacific Coastal Salmon Recovery Fund |
| Project | North Fork John Day River Basin Anadromous Fish Habitat Enhancement |

| | |
|--------------|---|
| | Project |
| Project Year | April 1 through March 31 |
| PSA | Professional Services Agreement |
| RGP | Regional General Permit |
| RPA | Reasonable and Prudent Alternatives as defined in NOAA's 2000 Bi-OP |
| SOW | Statement of Work |
| SWCD | Soil and Water Conservation District |
| TMDL | Total Maximum Daily Load |
| TNC | The Nature Conservancy |
| USDA | United State Department of Agriculture |
| USFWS | U.S. Fish and Wildlife Service |
| UNF | Umatilla National Forest |
| WDFW | Washington Department of Fish and Wildlife |
| WE | Bonneville Power Pisces Work Element |
| WHIP | Wildlife Habitat Incentive Program |

INTRODUCTION

The North Fork John Day River (NFJD) Basin Anadromous Fish Habitat Enhancement Project (hereafter referred to as project) is funded with Bonneville Power Administration (BPA) funds. This project is compatible with Chapter III Basinwide Provisions, Biological Objectives, Habitat Strategies and Research, Monitoring and Evaluation, and Chapter V, Subbasin Planning of the 2000 Northwest Power and Conservation Council's (NPCC; formerly known as Northwest Power Planning Council) Columbia River Basin Fish and Wildlife Program and with the habitat objectives and restoration strategies outlined in the John Day Subbasin Plan. Funding of this project provides partial mitigation for losses of salmon and steelhead (*Oncorhynchus spp.*) populations in the Columbia River Basin from the construction and operation of hydroelectric dams. The purpose of this project is to protect and enhance habitat for improved natural production of indigenous, Mid-Columbia River (MCR) Evolutionary Significant Unit (ESU) summer steelhead (*Oncorhynchus mykiss*), listed as threatened under the Federal Endangered Species Act (ESA), and spring Chinook salmon (*Oncorhynchus tshawytscha*) within the North Fork of the John Day River Basin. The project entails coordinated, cooperative efforts to protect and improve anadromous fisheries habitat. Improved habitat quality will provide increased juvenile and adult freshwater survival and result in greater offspring out-migration. This annual report covers work accomplished under the project by the Confederated Tribes of the Umatilla Indian Reservation (CTUIR) from April 1, 2004 through March 31, 2007.

Significant funds have been directed at anadromous fish habitat restoration in the John Day Basin. The John Day River Basin supports the largest remaining, exclusively wild runs of spring Chinook salmon and summer steelhead in northeast Oregon (Stuart and Williams, 1988). Emphasis on watershed-wide habitat is needed for protection and enhancement of the natural production capabilities in the basin.

The NFJD watershed provides 72 miles of spring Chinook salmon and 700 miles of summer steelhead spawning and rearing habitat (The North and Middle Forks John Day River Local Advisory Committee 2002). While the basin supports healthy populations of these anadromous species, they are less abundant than they were historically. Recent empirical escapement data (2000-2004) demonstrates that the NFJD supports 46% of the distribution of adult spring Chinook salmon (Columbia BM RC&DA 2005), the highest numbers within the John Day Basin. Trends show a general increase in spawning density for spring Chinook salmon, with the exception of the Granite Creek system which has shown a dramatic decrease in abundance over the last 30 years for unknown reasons (Barnes & Associates, Inc. 2003). On a watershed scale, the NFJD population of adult spring Chinook salmon has lost 66% productivity and 72% of its abundance, compared to historic conditions.

Summer steelhead are distributed throughout the NFJD Basin. Despite episodic increases in abundance, the total John Day Basin population has been trending downward since 1958 (Columbia BM RC&DA 2005). Serious declines of summer steelhead in the basin warranted a threatened listing under the ESA in 1999 (The North and Middle Forks John Day River Local Advisory Committee 2002). The Ecosystem Diagnosis and Treatment (EDT) Model used to estimate spring Chinook salmon smolt production in the John Day Subbasin Plan (Columbia BM RC&DA 2005) indicates that the North Fork averaged 110 smolts per spawner and the Granite Creek population averaged 76 smolts per spawner from 1992 through 1997. However, the subbasin plan

technical team believes that smolt production estimated by EDT is too small and unreliable for use at this time. Juvenile population estimates from United States vs. Oregon indicate smolt numbers for the entire John Day Basin to be approximately 4.5 times higher than smolt production estimated by EDT (Columbia BM RC&DA 2005).

EDT baseline reports indicate that 45% of steelhead escapement in the John Day Subbasin is to the NFJD. However the subbasin plan technical team doubted the accuracy of the EDT data. Empirical data (2000-2004) suggests that the NFJD supports 27 % of the adult steelhead within the John Day Drainage (Columbia BM RC&DA 2005). This represents the highest numbers of steelhead within a major watershed in the entire John Day System. The EDT Model suggest that no steelhead population within the John Day Basin is in immediate danger of decline. However, compared to historic levels, current populations are substantially less productive than formerly (Columbia BM RC&DA 2005) and MCR ESU steelhead remain listed as threatened under the ESA.

Impacts currently limiting anadromous fisheries habitat within the NFJD must continue to be addressed to realize full potential of anadromous fisheries production within the basin. Habitat limiting factors have been identified by the tribes and agencies in various documents over the past 20 years. These impacts include low summer flows, high summer and low winter water temperatures, high spring flows, depressed beaver populations, accelerated streambank erosion, excessive stream sedimentation and reduced instream cover (CRITFC 1995). Such problems are the result of historical and current land management practices including placer mining, livestock overgrazing, irrigation withdrawals, land clearing, road building, logging and stream channelization (Stuart and Williams 1988). Stream channelization and cropland development have reduced stream channel lengths from 10 to 20% within NFJD tributaries (Columbia BM RC&DA 2005). Fire suppression practices have affected both the composition and structure of forestlands in the basin. Use of ground-based logging equipment on steep (greater than 30%) slopes and high road densities often contribute sediments to streams, adversely impacting spawning and rearing areas (NOAA Fisheries 2004). Fine sediments, increasing gravel embeddedness, averaged EDT Model rating changes of more than 1.5 within NFJD tributaries (Columbia BM RC&DA 2005). In addition, the NFJD does not meet Pacific Anadromous Fish Strategy (PACFISH) pool frequency management objectives (USDA and USDI 1994).

Temperature is the primary water quality limitation for the NFJD. Because the NFJD and its primary tributary, the Middle Fork of the John Day River (MFJD), contribute the majority of flow to the mainstem John Day, the influence of the NFJD on stream temperature is significant. Other water quality problems in the NFJD include leaching of toxic mine waste in specific locations, primarily the upper Camas and Granite Creek watersheds, and a high degree of stream sedimentation from highly erodible soils (Columbia BM RC&DA 2005) .

The Umatilla National Forest (UNF) has addressed of degraded stream reaches in the upper North Fork of the John Day Subbasin through construction of riparian exclusion fencing and reworking mine tailings. The Oregon Department of Fish and Wildlife (ODFW) have implemented extensive habitat enhancement work within the subbasin. This has included fencing 23 stream miles within the Cottonwood/Fox Creek Drainage, 0.3 miles of Camp Creek (Cottonwood Creek tributary), two miles of upper Camas Creek and two miles of Granite Creek, and constructing a fish ladder on Fivemile Creek (providing access to 25 miles of

previously unavailable spawning habitat) The North Fork John Day Watershed Council (NFJDWC) has removed 3 push up dams, screened 3 irrigation diversions, and constructed seventy five miles of riparian exclusion fencing. In addition five thousand acres of noxious weeds have been treated with herbicides while biological control agents (insects) have been used against Mediterranean Sage in Fox Valley and Leafy spurge in the Cottonwood Creek drainage. NFJDWC improvements have primarily been funded with Oregon Watershed Enhancement Board (OWEB) and BPA dollars and localized in the vicinity of the lower basin near Monument, Oregon. The MFJD flows into the NFJD, however the MFJD is generally treated as a separate system and is primarily managed for enhancement by ODFW, the Confederated Tribes of the Warm Springs Reservation of Oregon (CTWSRO) and The Nature Conservancy (TNC).

There is a need for this anadromous habitat restoration project in the upper NFJD River Subbasin to continue to address habitat deficiencies on private lands and integrate habitat recovery and protection efforts with UNF, ODFW, CTWSRO and NFJDWC habitat improvements. This project complements other BPA restoration efforts in the John Day River Basin including:

- BPA Project #198402100 - ODFW's John Day River Subbasin Fish Habitat Enhancement Project
- BPA Project #199605300 – UNF's NFJD River Dredge Tailings Restoration Project (formerly funded with BPA dollars; currently on-going with other funding)
- BPA Project #199137 – Confederated Tribes of the Warm Springs Reservation of Oregon's (CTWSRO) John Day Watershed Restoration Project
- BPA Project #199801700 – North Fork John Day Watershed Council's (NFJDWC) Lower NFJD Gravel Push-up Dam Elimination Project

The above listed projects function similarly in other portions of the John Day Basin and/or partner with this project to implement additional restoration measures within the same localities. The project attempts to coordinate with these projects, so that we can achieve comprehensive watershed recovery, work toward common habitat recovery goals and collectively accomplish the biological and habitat objectives outlined in the John Day Subbasin Plan. We also interact with various resource agency and in-house habitat personnel to ensure that we are knowledgeable on the latest restoration techniques and practice adaptive management.

This project is housed with and shares vehicles and equipment with the following BPA funded projects:

- (1) BPA Project #198710001 – CTUIR's Umatilla River Basin Anadromous Fish Habitat Enhancement Project
- (2) BPA Project #199604601 – CTUIR's Walla Walla Basin Habitat Enhancement Project
- (3) BPA Project #199608300 – CTUIR's Grande Ronde Basin Habitat Enhancement Project

The UNF – Ukiah Ranger District also provides office space for the project technician and storage space for project equipment and materials. These partnerships result in significant cost savings to this project.

The project has been directing and shall continue to direct landowners to other programs sponsored and funded by the U.S. Department of Agriculture (USDA), OWEB, ODFW, U.S. Bureau of Reclamation (BOR), the U.S. Army Corps of Engineer (COE) and other private or public funding sources. Cost share funds with these same entities shall continue to be utilized to reduce annual BPA project implementation expenditures. The CTUIR has successfully partnered with the Natural Resources Conservation Service (NRCS) and Farm Services Agency (FSA) to obtain Wildlife Habitat Incentive Program (WHIP) funds and merge CTUIR Riparian Easements with Conservation Reserve Enhancement Program (CREP) Agreements. As new federal, state and private incentive programs continue to become available, these shall continue to be dove-tailed with BPA funds to assist in "re-enlisting" or "extending" existing landowner agreements. This will insure coordinated resource restoration and protection.

The project has provided BPA cost share to the Grant Soil and Water Conservation District (SWCD) to eliminate a feed lot from a riparian area and obtained National Oceanic and Atmospheric Administration (NOAA) cost share to assist the UNF and Grant SWCD in removing mine tailings from Granite Creek. The project has received financial and technical support from BOR to assist with habitat improvement planning efforts within the Desolation Creek drainage. Such collaborative efforts shall continue, so that cost savings is realized.

The CTUIR have discovered that it is necessary for trust to be developed at a community level within the small, rural communities of the NFJD Basin. The CTUIR holds a designated seat on the NFJDWC. Landowners and the general public are made aware of CTUIR proposed projects through this coordinating body. Because only 1,200 people reside within the NFJD Basin, the NFJDWC has proven to be very effective in promoting awareness and public participation. Participation on the NFJDWC council has resulted in landowners contacting the CTUIR for assistance, and schools and interest groups contacting the CTUIR for various outreach requests. As the general public has become more comfortable with and aware of the CTUIR's presence through ongoing partnerships within the basins. As a result, CTUIR's local involvement and project opportunities have continued to increase.

This project shall continue to function as part of an interdependent program by integrating existing and proposed on-the-ground efforts into a comprehensive watershed management approach, consistent with subbasin plan strategies and objectives. Such an expanded approach will result in stream reach-level habitat recovery and complement other riparian and upland habitat restoration and conservation efforts. The CTUIR will continue to prioritize the protection and enhancement of habitat within high priority Geographic Areas (GA's), as identified in the subbasin plan and where the greatest benefits can be achieved in the shortest amount of time. This is consistent with the NPPC's 1994 FWP, which states "prioritize actions that maximize the desired result per dollar spent".

DESCRIPTION OF WATERSHED AND FOCUS AREAS

The NFJD River (*Figure 1.*) is the largest tributary to the John Day River and flows westerly for 112 miles to join the mainstem near Kimberly, Oregon (Columbia BM RC&DA 2005). The NFJD Basin is a 1,182,316- acre watershed, containing 37% private, 62% Federal and 1% state ownership (Barnes & Associates, Inc. 2003). Elevations range from 1,830 feet at the mouth to over 8,300 feet in headwater areas. There are 32 major tributaries to the NFJD system. Precipitation ranges from approximately 13 to 20 inches annually. The lower portion is generally drier and upper elevations wetter. The NFJD has the best chemical, physical and biological water quality in the John Day Basin (Barnes and Associates, Inc. 2003) and contributes 60 percent of the total stream flow to the lower John Day River. More than 75 percent of the NFJD aquifers are basalt/volcanic rock. The Middle Fork of the John Day River (MFJD) flows into the NFJD, however the MFJD is generally treated as a separate system.



Figure 1: North Fork John Day Basin Vicinity Map

The CTUIR have focused primary habitat enhancement efforts within tributaries of the NFJD, including lower Camas Creek and tributaries within the Camas Creek Drainage (Snipe Creek and Owens Creek), Deer Creek and on portions of the lower mainstem. The CTUIR have partnered with other entities, including Grant SWCD and the UNF to assist them in accomplishing habitat improvements within Granite Creek (NFJD tributary) and Granite Creek (MFJD tributary). *Table 1.* illustrates existing habitat projects within the NFJD Basin where CTUIR was the primary implementer or assisted

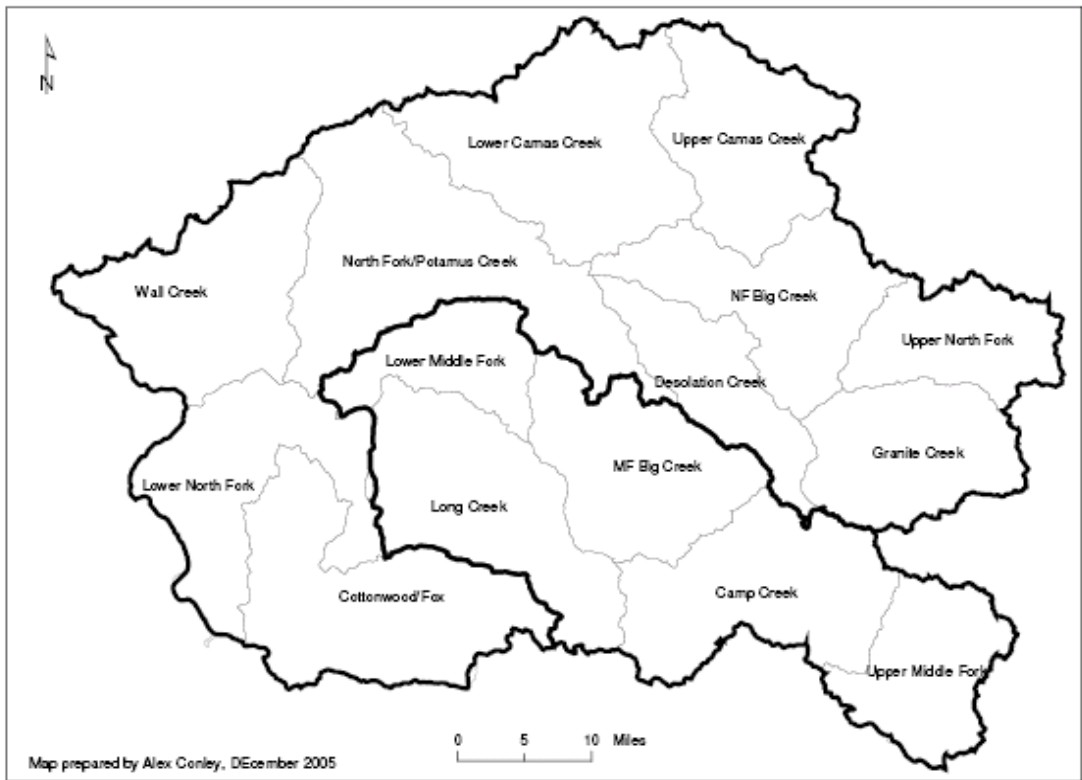
others with implementation. *Figure 2.* is a map of fifth field Hydrologic Unit Codes (HUC) in the NFJD and MFJD Watersheds, identified by GA's, where these projects are located.

Table 1: CTUIR Habitat Enhancement Project Table.

| STREAM | PRIMARY IMPLEMENTOR (YEAR) | LEGAL DESCRIPTION | STREAM MILES (acres) | FENCE MILES | WATER GAPS | SPRING DEV. | GATE | NATIVE TREES & SHRUBS PLANTED |
|------------------------------------|----------------------------|---|--------------------------------------|-------------|------------|--------------------|-----------------|--|
| Snipe Creek (Lower Camas Creek GA) | CTUIR (2002-2005) | Umatilla County Tax Lot 1100, T4S, R31E, Sec. 3 & 4; Tax Lot 6400, T3S, R31E, Sec. 32 | 0.8 (34.4 acres enrolled under CREP) | 2.1 | 2 | 2; includes 1 well | 3 metal 9 wire | Approx. 7500 |
| Snipe Creek (Lower Camas Creek GA) | CTUIR (2002-2005) | Umatilla County Tax Lot 1100, T4S, R31E, Sec. 3 & 10 | 1.4 (54 acres) | 2.24 | 5 | 4 | 5 metal 10 wire | None; livestock exclusion in forested area |
| Owens Creek (Lower Camas Creek GA) | CTUIR (2004-2005) | Umatilla County Tax Lots 1100 & 2200, T5S, R31E, Sec. 10 & 15 | 0.3 (5.2 acres) | 0.7 | 1 | 1; includes 1 well | 1 wire | Approx. 1800 |
| Deer Creek (Cottonwood Creek GA) | CTUIR (2002) | Grant County Tax Lots 1500 & 1501, T8S, R28E, Sec. 33 & 34; Tax Lots 501 & 502, T9S, R28E, Sec. 3&4 | 0.5 (22 acres) 2.1 (90.2 acres) | 3.6 | 5 | 4 | 4 metal 16 wire | None; livestock exclusion in forested area |

| STREAM | PRIMARY IMPLEMENTOR (YEAR) | LEGAL DESCRIPTION | STREAM MILES (acres) | FENCE MILES | WATER GAPS | SPRING DEV. | GATE | NATIVE TREES & SHRUBS PLANTED |
|--|----------------------------|--|--|---------------------------|------------|--|--------------------|-------------------------------|
| Deer Creek (Cottonwood Creek GA) | CTUIR (2004-2005) | Grant County Tax Lot 1500, T8S, R28E, Sec. 32 & 33; Tax Lot 500, T9S, R28E, Sec. 4 | 0.2 (9 acres) 2.2 (98 acres; includes 41 acres enrolled under CREP) | 3.3 – new 1.8 - repair | 6 | 11 (materials for 8 of these were funded under OWEB and are currently being constructed) | 18 wire 2 metal | Approx. 7500 |
| Lower North Fork John Day River (Lower North Fork John Day GA) | CTUIR (2006) | Grant County Tax Lot 2500, Township 9 South, Range 27 East, Section 7 | 0.54 (7.3 acres) | 0.54 | 0 | 1 | 2 metal | Approx. 4,220 |
| Camas Creek (Lower Camas Creek GA) | CTUIR (2006) | Umatilla County T5S, R31E, S ½ of Section 15, SW ¼ of SW ¼ of Section 14, and N ½ Section 22 | 1 (388 acres) | 1 – new 0.5 - repair | 0 | 3 | 3 metal | Approx. 3,000 |

| STREAM | PRIMARY IMPLEMENTOR (YEAR) | LEGAL DESCRIPTION | STREAM MILES (acres) | FENCE MILES | WATER GAPS | SPRING DEV. | GATE | NATIVE TREES & SHRUBS PLANTED |
|--|--|---|-----------------------------|--------------------|-------------------|--------------------------|-------------|--|
| Clear Creek (Granite Creek GA) | UNF (2004 – on-going; CTUIR assisting by providing NOAA cost share) | Umatilla County GPS Points: Start at 383568E, 4959967N, End at 385092E, 4959108N (N45°07'30", W118°56') | 0.72 (13 acres) | N/A | N/A | N/A | N/A | Unknown; shall occur in 2008 |
| Granite Creek – MF John Day tributary (Big Creek GA) | Grant SWCD (2005 – on-going; CTUIR provided approximately \$8,600 in BPA cost share) | Grant County, Township 8 South, Range 31 East, Sections 17, 18, 19 and 30 | 2 (84.3 acres) | 1.2 | 0 | 1 well; 10 water troughs | unknown | None; protection of existing riparian vegetation |
| Granite Creek – MF John Day tributary (Big Creek GA) | Grant SWCD (2005 – on-going; CTUIR provided approximately \$8,600 in BPA cost share) | Grant County, Township 8 South, Range 31 East, Sections 17, 18, 19 and 30 | 2 (84.3 acres) | 1.2 | 0 | 1 well; 10 water troughs | unknown | None; protection of existing riparian vegetation |



**Figure 2: Fifth field HUCs in the North and Middle Forks John Day Watersheds.
Map provided by NFJDWC**

PROJECT ACCOMPLISHMENTS

This project's annual 12-month funding cycle and associated activity period functions from April 1 to March 31 (hereafter referred to as project year). The project's accomplishments are summarized in this section of the report by BPA Pisces Work Element (WE) for the April 1, 2004 - March 31, 2005, April 1, 2005 - March 31, 2006 and April 1, 2006 - March 31, 2007 project periods.

WE 114. Identify and Select Projects:

Title: Identify, Prioritize and Select Habitat Project Areas

Description: Coordinated with landowners and the NFJDWC and various resource entities to identify and select potential 2004, 2005 and 2006 habitat enhancement projects. Habitat restoration projects were identified through interagency communication, public meetings, cost share opportunities, integration with other resource entities' efforts, landowner participation and various planning documents. Projects were listed and prioritized based on available funding, partnership opportunities and fishery benefits. All potential restoration projects were included in the lists.

2004 – 2005:

- a. Provided input for the "draft" John Day Subbasin Watershed Plan.
- b. Coordinated with private landowners to identify and select properties for habitat improvements. Negotiations continued with Robin Fletcher (Ukiah Land Company) in attempt to secure easements on lower Camas and Hidaway Creeks. CTUIR corresponded with absentee landowner, Lois Cannady, after several sites visits to her Hidaway Creek property in an effort to obtain an easement for that property. Site visits were also made to the Krostings Property on Cooper Creek to discuss enrolling that property under a CTUIR easement with Karen Thacker and Norm Krostings. Project personnel also conducted property visits and had discussions with lower NFJD River landowners, Bill Neal, Cross-D Ranches and Cochran Creek Land and Cattle Ranch, regarding potential enrollment under CTUIR Riparian Conservation Easements. CTUIR, NRCS and the Monument SWCD met with Clyde and Helen Davidson to discuss enrolling approximately five stream miles of lower Cottonwood Creek on their property under a combined CREP and CTUIR habitat enhancement project. Contacted Hood River County regarding potentially partnering with them to enhance lower reaches of their Desolation Creek property.
- c. Researched land ownerships on Camas and Cable Creeks in attempt to secure potential projects.
- d. Toured lower NFJD Basin tributaries in attempt to locate potential projects.
- e. Completed and submitted a summary of CTUIR's on-the-ground project implementations to the NFJDWC for insertion into the John Day Subbasin Plan.

2005 – 2006:

- a. Developed an implementation list for potential 2005 projects.
- b. Reviewed latest draft of the John Day Subbasin Plan and provided comments, including descriptions of all existing CTUIR habitat projects within the NFJD Basin.
- c. Met with the Oregon Department of Transportation (ODOT) to discuss their wetland mitigation banking program and identify potential properties for perpetual enrollment under this program.
- d. Visited the Jerry Wallace (lower NFJD River) and Dale Campbell (lower Wall Creek) properties to familiarize these landowners with habitat enhancement opportunities available under this project.
- e. Met with the UNF to discuss out-year projects on the UNF which could potentially be partnered with this project. The UNF provided the project with a prospective list of passage improvement, riparian enhancement and mine-tailing removal projects.
- f. Coordinated with the BOR to discuss out-year partnerships for potential in-stream enhancement projects, including passage improvement, large wood placement, pool development and levee removal projects. The BOR indicated that they could provide cost share and in-kind assistance for: (1) engineer and design, (2) cultural resources survey, (3) ESA consultation, and (4) in-stream removal/fill permit efforts.
- g. Participated in a John Day Subbasin Plan prioritization meeting to determine 2007 -2009 priority enhancement areas.
- h. Completed project design for removal of remnant levees, confining approximately 1,100 feet of Camas Creek, on the Fletcher property.

2006 – 2007:

- a. Visited the Bob Rhinehart property on upper Camas Creek and lower Cable Creek to discuss enrollment of the property under a CTUIR Riparian Conservation Easement for potential 2008 out-year project implementation.
- b. Participated in a tour of the lower Desolation Creek Watershed with Hood River County Forestry personnel and BOR staff to become more familiar with the Hood River County owned property; restoration options and partnership opportunities were discussed with BOR and Hood River County.
- c. Participated in local John Day Subbasin BPA project reviews and rankings.

WE 118. Coordination:

Title: Coordinate with Private Landowners, NRCS, UNF and Other Resource Entities

Description: Coordinated with landowners and the UNF to develop FY 2004, 2005 and 2006 habitat restoration and protection projects. The project coordinated with landowners, the NFJWC, local, state and federal resource agencies to supplement BPA project funds with potential cost share dollars and determine any in-kind services which landowners might be able to provide. Project personnel further directed interested landowners to the local FSA so they could be informed of various USDA agricultural incentive programs. These programs included the CREP, WHIP and Environmental Quality Incentive Program (EQIP). The intent was to cost share implementation costs with these programs and maintain new projects under CTUIR Riparian Easements with BPA funds. This WE included coordinating with landowners to determine technical project specifications, including road access for project implementation, fence layouts (number of gates, equipment crossings, etc.), water development designs, etc. The WE also identified which funds would cover specific implementation activities and timelines in which the work was to be carried out.

2004 – 2005:

- a. Informed landowners, Robin Fletcher, Lois Cannady, Karen Thacker, Norm Krostings, Bill Neal, Cross-D Ranches, Cochran Creek Land and Cattle Ranch, and Clyde and Helen Davidson of optional USDA agricultural incentive programs and directed them to FSA Offices in Pendleton and John Day, Oregon to obtain further information regarding program specifics. This coordination resulted in Mr. Krostings and Cochran Creek Land and Cattle Ranch submitting applications to FSA for enrollment under CREP.
- b. Coordinated a site visit to Robin Fletcher's Camas Creek property with NRCS to determine site-specific restoration treatments. CTUIR recommended remnant levees, confining approximately 1,100 feet of the stream channel, be removed and fill materials be hauled off-site. NRCS discussed enrollment of approximately 388 acres of adjacent wetland and floodplain habitat on this property under CREP. It was determined that CTUIR project staff would take the lead in obtaining funds and implementing removal of the levees. NRCS indicated that they would continue coordination with Mr. Fletcher to assist him with CREP enrollment.
- c. Coordinated with Community Action Program East Central Oregon (CAPECO) to obtain a summer laborer. This individual's salary was jointly funded with CAPECO (\$3,793 in cost share) and BPA Funds.
- d. Secured a \$20,510 Pacific Coastal Salmon Recovery Fund (PCSRF) grant from NOAA for a 2005 out-year project to be cost shared and coordinated with the UNF and Grant SWCD for mine-tailing removals on Clear Creek. These dollars assisted the UNF to continue addressing mine-

tailing removal and associated floodplain restoration within the Clear Creek Watershed.

- e. Assisted Grant SWCD with a multi-year \$119,925 riparian livestock exclusion project on lower Granite Creek, a tributary to the MFJD River. This on-going project involves eliminating livestock water gaps, drilling a well, installing off-stream stock water tanks, relocating feed bunks, and installing 1.6 miles of fence to enlarge an existing calf weaning facility and includes numerous cost share partners. CTUIR's contribution to this project included provision of fence materials and water troughs, purchased with BPA funds (\$5,700.00). This stream contains MCR ESU spring Chinook salmon and summer steelhead, both federally listed under the ESA. Approximately 0.75 mile of stream and 84.3 acres will be protected upon final completion of the project.
- f. Attended 10 monthly NFJWC meetings, as the CTUIR's delegated council member, to participate in local watershed planning activities and coordinate potential and on-going habitat restoration projects with various funding entities and landowners.
- g. Participated in an Oregon Department of Forestry (ODF) tour on Rhea Creek, demonstrating a new type of culvert design.
- h. Provided a project presentation to the Columbia Basin Fish and Wildlife Authority (CBFWA) in Richland, Washington to update regional fish and wildlife managers on project accomplishments and proposed activities.
- i. Participated in CTUIR sponsored law enforcement training to recognize potential violations when in the field and how to address discovery of illegal activities (methamphetamine production, poaching, etc.).
- j. Participated in a 1.5 day CREP workshop, sponsored by NRCS, in Pendleton, OR.
- k. Participated in the "2005 Northwest Stream Restoration Design Symposium" in Stevenson, Washington (travel and lodging expenses were covered with Bureau of Indian Affairs [BIA] funding).
- l. Attended Dr. Jesse Schwartz's (CTUIR research staff) presentation, Ecosystem-Based Management versus the Management of Ecosystems: Some lessons from Lake Victoria, East Africa, and some challenges for Pacific Northwest Salmon.
- m. Attended Dr. Jeanette Howard's (CTUIR Lamprey and Freshwater Mussel Project Leader) workshop, Freshwater Mussel Technical Symposium.
- n. Attended Carl Scheeler's (CTUIR Wildlife Program Manager) presentation to OWEB regarding fish and wildlife habitat restoration efforts within the Iskuulpa Watershed.

- o. Secured \$13,491 in CREP Reimbursements from the Grant County FSA for fencing constructed on Deer Creek (Berrey property).

2005-2006:

- a. Attended 9 monthly NFJDWC meetings, as the CTUIR's delegated council member, to participate in local watershed planning activities and coordinate potential and on-going habitat restoration projects with various funding entities and landowners.
- b. Continued coordination with Grant SWCD to assist with a riparian livestock exclusion project on lower Granite Creek.
- c. Continued coordination with the UNF and Grant SWCD to provide cost share assistance for mine-tailing removal and associated floodplain restoration within the Clear Creek Watershed. The project leader drafted a subcontract to provide \$20,510 in NOAA – PCSRF funds to the SWCD for design and engineering services.
- d. Coordinated with NRCS to develop a grant application and secure a \$15,102 WHIP Grant to be utilized as cost share on lower NFJD River projects, including the Neal Property (off-stream water development, seeding and plantings) and the Cross D Ranch Property (fence construction and plantings). The Cross D later chose to not participate.
- e. Coordinated with the NFJDWC to obtain \$2,258 in OWEB cost share funds. These funds were used for: (1) design and engineering assistance to remove levees, confining approximately 1,100 feet of the Camas Creek stream channel, on the Fletcher Property and (2) to cover costs to assess conditions and recommend restoration measures for a wetland- meadow complex on Fox Creek and related travel expenses.
- f. Continued coordination with NRCS and Cochran Creek Land and Cattle Ranch, regarding enrolling that property under CREP. Cochran Creek Land and Cattle Ranck later chose to not participate under a CTUIR easement.
- g. Participated in Washington Department of Fish and Wildlife's (WDFW) Family Forest Fish Passage Program (FFFPP) Fish Barrier Assessment training in Walla Walla, Washington. This one day training was free and the course work covered: (1) level A. culvert assessment, (2) level B. data collection, (3) dam assessment, (4) data collection and recording using FFFPP barrier evaluation forms, and (5) using a laser level to measure culvert length, slope and streambed elevations.
- h. Directed Dale Campbell, a Wall Creek Landowner, to appropriate FSA and NRCS personnel in John Day, Oregon to obtain information regarding CREP and potential enrollment opportunities.
- i. Participated in a tour of the Hidaway, Klondike and Lucky Strike Grazing

Allotments within the NFJD Ranger District on the UNF. The UNF requested National Environmental Policy Act (NEPA) consultation with the CTUIR prior to renewing grazing leases on these properties under their new Forest Plan. This tour provided a chance to observe grazing management on the UNF to assist with the consultation process. Recovery of riparian areas was impressive and overall habitat conditions appeared to be on a continuing upward trend.

- j. Completed a NOAA-PCSRF grant proposal and submitted it to CRITFC, requesting \$25,000 in 2006 cost share assistance for removal of levees, confining approximately 1,100 feet of Camas Creek, on the Fletcher property; the project was successful in securing these grant dollars.
- k. Assisted the UNF and Grant SWCD with development of a NOAA-PCSRF grant proposal and submitted it to CRITFC to acquire an additional \$20,000 in cost share funds for continuation of the mine-tailing removal project on Clear Creek in 2006.
- l. Participated in a two-day CTUIR sponsored workshop, "Floodplain Workshop: Results from the Data Rich Decision Support Environment Project"
- m. Coordinated with the NFJDWC to prepare an OWEB grant proposal to secure cost share for removal of levees and in-stream enhancements on lower Camas Creek; the project was successful in obtaining \$14,750 in OWEB funds for this endeavor.

2006-2007:

- a. Coordinated with the U.S. Fish and Wildlife Service (USFWS) to obtain ESA clearance and complete a Level I Contaminant Survey for implementation of levee removals and in-stream enhancements within the Camas Creek Project Area. USFWS technical support required the landowners (Robin, Andy and Bill Fletcher) to enter into a 10-year "Landowner Agreement for Restoration Projects Under the Oregon Partners for Fish & Wildlife Program". This agreement provides USFWS personnel access to the property to annually monitor project conditions, requires all federal, state and local permits, pertaining to project restoration efforts are secured, and is binding upon change in property ownership.
- b. Prepared a \$20,000 PCSRF Grant Application and submitted it to the Columbia River Inter-Tribal Fish Commission (CRITFC) for proposed 2007 riparian livestock exclusion and upland water development improvements on the Rinehart property on upper Camas Creek and in the lower Cable Creek Drainage.
- c. Informed landowner, Bob Rhinehart, of potentially eligible USDA agricultural incentive programs for his Camas and Cable Creek properties.
- d. Attended 10 monthly NFJDWC meetings, as the CTUIR's delegated

council member, to participate in local watershed planning activities and coordinate potential and on-going habitat restoration projects with various funding entities and landowners.

- e. Coordinated with the UNF to develop a Collection Agreement to provide \$5,000 in BPA project funds for revegetation of two miles of riparian corridor, burned by wildfires, within the Cable and Hidaway Creek Drainages. These funds provided cost share to purchase and plant 600 native rooted stock and 285 cuttings trees and shrubs to reduce stream temperatures over three total miles of stream length. The project goal was to meet Pacific Anadromous Fish Strategy (PACFISH) and state water quality maximum water temperature standards.
- f. Provided PCSRF Final Report to CRITFC for the CTUIR levee removals and in-stream enhancements on Camas Creek.
- g. Continued coordination with the UNF and Grant SWCD to provide cost share assistance for mine-tailing removal and associated floodplain restoration within the Clear Creek Watershed. The project leader prepared a subcontract to provide an additional \$20,000 in NOAA – PCSRF funds to the SWCD for design and engineering services.

WE. 122. Provide Technical Review:

Title: Provide Technical review of Partnership Documents

Description: Reviewed USDA CREP Conservation Plans, BOR planning data and UNF accomplishments which involved partnerships with this BPA funded project.

2004-2005:

- a. Conducted a CREP compliance tour with John Day NRCS Office Personnel and submitted fence construction invoices via the property owner, Steven Berrey, in an attempt to obtain reimbursement to apply towards future habitat enhancements.

2005 - 2006:

- a. Coordinated with NRCS on proposed lower NFJD River projects, involving WHIP cost share (Neal and Cross-D Ranches projects). Coordination included reviewing NRCS planting, fencing and water development technical specifications to insure conformity with project planning and development of a schedule to implement these improvements.
- b. Provided PCSRF Progress Report to CRITFC for UNF and SWCD mine-tailing removal and floodplain restoration project in the Clear Creek Watershed.

2006 – 2007:

- a. Provided PCSRF Final Report to CRITFC for UNF and SWCD mine-tailing removal and floodplain restoration project in the Clear Creek

Watershed.

- b. Coordinated with NRCS staff to review improvements in the lower NFJD Project area partially funded with WHIP cost share and seek reimbursement (Neal Property).
- c. Provided and participated in a coordination meeting with ODFW, BOR and NFJDWC staff to determine planning and monitoring needs and implementation goals for lower Desolation Creek.
- d. Attended a BOR Light Detection and Ranging (LIDAR) Aerial Photography Workshop in Portland, Oregon to review data collected from lower Desolation Creek and the MFJD.

WE 92: Lease Land:

Title: Lease Private Lands within High Priority GA's

Description: Developed and secured Riparian Conservation Easements with private landowners. These easements permitted CTUIR restoration efforts and restrict landowners from certain land use activities, such as grazing, removal of vegetation, construction of buildings, use of weed or insect control measures, etc. within enhanced riparian corridor areas. In lieu of landowners being provided direct funding to secure their participation, they were required to accept the costs of all BPA-funded habitat improvements along with CTUIR's maintenance of these improvements as consideration for participating in project recovery efforts. This WE involved determining and agreeing upon riparian corridor widths, fence specifications, water development locations and numbers, etc., developing a scope of work, and deciding the number of years the individual easements covered (a minimum of 15 years and maximum length of perpetuity). An attempt was made to address landowner needs (such as livestock water gaps, stream crossing sites, off-stream water developments, etc.) and incorporate these needs into the final agreement. All easements were reviewed by CTUIR Attorneys, recorded at the Umatilla and Grant County Courthouses, attached to property deeds and are binding upon heirs or successors in interest. Riparian easements protect habitat improvements and ensure an early recovery period within project areas.

2004-2005:

- a. Recorded CTUIR Riparian Conservation Easement for Steve Berrey property on Deer Creek (Grant County Tax Lot 1500, Township 8S, Range 28 E, Sections 32 and 33 and Tax Lot 500, Township 9S, Range 28 E, Section 4) at Grant Country Courthouse. The effective term of this 15-year easement is September 1, 2003 through August 31, 2018.
- b. Developed three draft easements for three adjoining property owners, Bill Neal, Cross D Ranches and Cochran Creek Land and Cattle Ranch, on the lower N. Fork John Day River.

2005 – 2006:

- a. Coordinated with CTUIR legal staff to update CTUIR Riparian Conservation Easement format and assisted in providing information for a new CTUIR Resolution, allowing for easements to be entered into anywhere within the “areas of interest and influence of the CTUIR” without limitation.
- b. Provided second draft easements to Cochran Creek Land and Cattle Ranch, Cross-D Ranches and Bill Neal for review.
- c. Obtained a 15-year CTUIR Riparian Conservation Easement for the Bill Neal property (7.3 acres and approximately 0.5 miles in length) on the lower NFJD River (Grant County Tax Lot 2500, Township 9 South, Range 27 East, Section 7). The effective term of this easement is July 1, 2005 through July 1, 2020.
- d. Provided a third draft CTUIR Riparian Conservation Easement for proposed enhancements on the lower NFJD River to Bruce and Martha Rhine, owners, and Destry Brown, property manager, of Cochran Creek Land and Cattle Ranch for review and comment. The Cochran Creek Land and Cattle Ranch later chose to not participate under a CTUIR easement.

2006 – 2007:

- a. Obtained a 15-year CTUIR Riparian Conservation Easement along 1.5 miles of lower Camas Creek and one hundred fifty yards of Pine Creek (388 acres) for the Fletcher property (property owners Robin, Mary Lou, Andy and Bill Fletcher) on lower Camas Creek (Umatilla County Tax Lots 2600 and 2700, Lot 3, Township 5 South, Range 31 East, SW and SE ¼'s of Section 15, SW ¼ of SW ¼ of Section 14, NE ¼ of NE ¼ of Section 22 and NW ¼ of NW ¼ of Section 23. The easement term is January 15, 2007 through January 14, 2022.
- b. Provided a draft easement to Bob Rhinehart for potential enrollment of approximately 0.7 stream miles of riparian corridor improvements on upper Camas Creek and off-stream, upland water developments within the lower Cable Creek Drainage.

WE: 165. Produce Environmental Compliance Documentation:

Title: Produce Environmental Compliance Documentation for Project Implementations and Maintenance

Description: Completed NEPA Checklists, BA's and In-stream Removal/Fill Permit Applications, as necessary, for fence construction, native revegetation, off-stream water developments, in-channel improvements and large woody debris (LWD) placements and associated maintenance activities.

2004 – 2005:

- a. Completed BPA Watershed NEPA Checklist and project area maps and submitted to BPA's Fish and Wildlife Environmental Review Team for proposed 2004 implementations.

2005-2006:

- a. Completed BPA Watershed NEPA Checklist and project area maps and submitted to BPA's Fish and Wildlife Environmental Review Team for proposed 2005 implementations.
- b. Prepared proposed 2005 project descriptions and submitted these to CTUIR's Cultural Resource Protection Program (CRPP) and BPA's Fish and Wildlife Environmental Review Team to determine which projects might potentially affect cultural resources and where cultural resource surveys would be required.
- c. Secured completed BA's and a Habitat Improvement Program (HIP) Biological Opinion (BO) Consistency Form from BPA's Fish and Wildlife Environmental Review Team for all proposed 2005 habitat enhancements.
- d. Coordinated with the BPA Fish and Wildlife Environmental Review Team Leader, BPA Contracting Officer's Technical Representative (COTR), CTWSRO Cultural Resources Department Program Manager, CTUIR CRPP Program Manager and CTUIR CRPP Archeologist to determine cultural resource survey needs and associated costs of proposed 2005 habitat enhancements.

2005-2006:

- a. Completed BPA Watershed NEPA Checklist and project area maps and submitted to BPA's Fish and Wildlife Environmental Review Team for proposed 2006 implementations.
- b. Prepared and submitted a Joint Removal/Fill Permit Application to the U.S. Army Corps of Engineers (COE) and Oregon Division of State Lands (ODSL) to: (1) remove 1,400 linear feet of levees confining 1,100 feet of the Camas Creek stream channel (2,200 cubic yards), (2) remove nine remnant rock barbs (150 cubic yards), (3) realign and reshape 350 linear feet of stream channel, (4) remove center and lateral gravel bars and incorporate removed gravels into two point bars, (5) bury LWD into point bars, and (7) install six low elevation J-hook vanes (300 cubic yards) with LWD incorporated into them and (8) implement 256 linear feet of bioengineering improvements (plant approximately 5,500 native willows); received a General Authorization for Fish Habitat and Wetland Enhancement Permit (GAP) and an In-water Timing Extension (to perform in-stream activities through September 15, 2006) from ODSL and a Regional General Permit (RGP) No. 200500674 Category 'I' (for Stream and Wetland Restoration Activities) from COE to accomplish this work. BPA funds assisted with bioengineering improvements; all major in-

stream activities were funded with PCSRF and OWEB cost share dollars.

- c. Applied for and received a Zoning Permit from Umatilla County Resource Services and Development (Planning Department) to complete in-stream work activities on Camas Creek.
- d. Obtained ESA clearance and completed a Level I Contaminant Survey through the USFWS Partners for Wildlife Program in compliance with the USFWS Programmatic Biological Opinion (Bi-Op) for USFWS Restoration Programs (NOAA reference #2004/00155).

WE: 165. Produce Environmental Compliance Documentation:

Title: Produce Environmental Compliance Documentation for Herbicide Applications

Description: Completed BPA Actual Herbicide Applications and Proposed Herbicide Applications forms to document completed and proposed weed treatments within existing habitat enhancement project areas. These forms were submitted to BPA's Fish and Wildlife Environmental Review Team for approval and environmental clearance.

2004 – 2005:

- a. Completed and submitted BPA Calendar Year 2004 Actual Herbicide Applications form and BPA Calendar Year 2005 Proposed Herbicide Applications form to BPA's Fish and Wildlife Environmental Review Team. All identified noxious weed treatments were consistent with NOAA Fisheries' 2003 Bi-Op per BPA's HIP.

2005 – 2006:

- a. Completed and submitted BPA Calendar Year 2005 Actual Herbicide Applications form and BPA Calendar Year 2006 Proposed Herbicide Applications form to BPA's Fish and Wildlife Environmental Review Team. All identified noxious weed treatments were consistent with NOAA Fisheries' 2003 Bi-Op per BPA's HIP.

2006 – 2007:

- a. Completed and submitted BPA Calendar Year 2006 Actual Herbicide Applications form and BPA Calendar Year 2007 Proposed Herbicide Applications form to BPA's Fish and Wildlife Environmental Review Team. All identified noxious weed treatments were consistent with NOAA Fisheries' 2003 Bi-Op per BPA's HIP.

WE 40. Install Fence:

Title: Install Riparian and Floodplain Exclusion Fencing

Description: Subcontracted construction and repair of riparian and floodplain exclusion fencing within new project areas. This WE included initiating invitations for fence construction bids, providing tours of proposed fence

construction sites to interested contractors, awarding subcontracts to low-bid fence contractors and developing fence construction subcontracts. New fences were constructed to USDA NRCS specifications. Existing fences at new sites were repaired by CTUIR project staff.

Project staff monitored fence subcontractors' progress, photo documented various stages of fence construction and inspected completed fences to determine whether they conformed to subcontract requirements.

2004 – 2005:

- a. Provided a bid tour to perspective fence contractors for completion of a riparian livestock exclusion fencing on Deer Creek (Berrey property); awarded a \$16,643 fence construction subcontract to Borgerding Fence Construction, Inc. for construction of 8,976 feet of combined smooth-wire/barbed-wire fencing, installation of two gates, and removal and disposal of 1,050 feet of existing fencing on Deer Creek. The previous contract for this work with Schulze Fencing was terminated during the 2003 project period because the contractor failed to complete the work within the specified time period (8,274 feet of new fence was constructed, 9,480 feet of existing fence repaired and 900 feet of existing fencing removed by Schultz Fencing on this property during the 2003 project period).
- b. Constructed approximately 0.6 miles of barbed-wire riparian enclosure fencing (0.3 stream miles) at the Owens Creek Project Site (Standley Property). This fence was constructed by project personnel.
- c. Constructed approximately 100 yards of new fencing at the Deer Creek Project Area (Berrey Property). This fence was constructed by project personnel.

2005 – 2006:

- a. Utilized a Global Positioning Satellite (GPS) Unit to determine locations and distances of proposed riparian enclosure fences and staked out fence lines on the lower NFJD River (Cross-D Ranches and Billy Neal properties). The NFJDWC created maps from GPS points collected for insertion into landowner easements. Information was also included when soliciting fence construction bids.
- b. Provided a bid tour to perspective fence contractors for construction of 2,859 feet of riparian livestock exclusion fencing on the Lower NFJD; awarded a \$4,262 fence construction subcontract to Ryan Capon Contracting for construction of 2,859 feet of combined smooth-wire/barbed-wire fencing and installation of three 14-foot metal gates to exclude cattle and sheep from the NFJD River, riparian corridor and floodplain areas on the Bill Neal property.

2006 – 2007:

- a. Provided a bid tour to perspective fence contractors for construction of 6,880 feet of riparian livestock exclusion fencing on Camas Creek; awarded an \$11,301.20 fence construction subcontract to JLC Contracting LLC for construction of 6,880 feet of combined smooth-wire/barbed-wire fencing, installation of three 14-foot gates, and removal and disposal of 6,880 feet of existing fencing to exclude cattle from the Camas Creek, riparian corridor, wetland and floodplain areas on the Robin Fletcher property.

WE 47. Plant Vegetation:

Title: Plant Native Vegetation within New and Existing Project Areas

Description: Planted native tree and shrub tubelings in riparian and floodplain areas and stung willow cuttings into stream margins. This WE included installation of landscape fabric and tree shelters around trees and shrubs to increase survival and accelerate growth. Plant stock originated from seeds and cuttings locally obtained by CTUIR project staff and grown out at the CTUIR Native Plant Nursery. BPA project funds were also provided to the UNF to assist with revegetation of burned-over riparian areas on UNF lands.

2004 – 2005:

- a. Planted 4,392 trees (2,266 native willow cuttings and 430 red alder, 500 red osier dogwood, 272 black cottonwood, 200 mock orange, 200 wild rose and 524 quaking aspen bareroot trees) to CREP specifications within the Lower Snipe Creek Project Area.
- b. Planted 100 willow cuttings within the Deer Creek Project Area.
- c. Collected 2,550 willow, red osier dogwood and cottonwood cuttings and several quart bags of golden currant, choke cherry, mock orange, snowberry, wild rose, elderberry, alder and hawthorn seeds and delivered to Mt. Jefferson Farms and J. Herbert Stone State Nurseries to be grown out for 2005 project plantings.
- d. Seeded the Lower Snipe Creek and Owens Creek project areas with approximately 50 pounds of native grass seed at each site.
- e. Retrieved plant materials, grown from indigenous stock supplied by CTUIR project staff, from Mt. Jefferson Farms and J. Herbert Stone Nurseries and stored in plant cooler for April out-plantings.
- f. Collected 550 willow, 100 red osier dogwood and 200 cottonwood cuttings and delivered them to the CTUIR Native Plant Nursery to be grown out for fall 2005 projects.

2005 – 2006:

- a. A total of 7,194 native trees and shrubs were planted within project areas, including 4,450 in the Deer Creek Project Area (Berrey Property), 2,400 in

the lower Snipe Creek Project Area and 344 in the Owens Creek Project Area. Species planted included bareroot red alder, red osier dogwood, black cottonwood, mock orange, wild rose, quaking aspen and ponderosa pine.

- b. Collected snowberry, wild rose, hawthorn, alder, red osier dogwood, mock orange, choke cherry, currant and service berry seed and provided to the CTUIR Native Plant Nursery to be propagated for 2006 and 2007 projects.
- c. Prepared and provided bid package, solicited bids and offered a pre-bid tour for operated equipment (an excavator) to sting willows in the lower NFJD Project Area. The Britt Corporation was selected and a subcontract developed to sting 4,000 native willow cuttings into approximately 4,000 linear feet of stream bank. However, the subcontract was terminated due to delays in receiving cultural resource clearances.

2006 – 2007:

- a. Re-advertised a riparian revegetation project for the Lower NFJD Project Area (work was not completed within the 2005 – 2006 project period); awarded a \$2,780.00 Professional Services Agreement to Lawrence Contracting to sting 3,600 native willows cuttings into 4,000 linear feet of the Lower NFJD Project Area. These services were funded with CREP fence construction reimbursements from the Berrey Property on Deer Creek.
- b. Planted 960 native trees and shrubs, grown at the CTUIR Native Plant Nursery, into 2,400 linear feet of landscape fabric and an additional 960 trees on streambanks within the lower NFJD Project Area.
- c. Collected snowberry, wild rose, hawthorn, alder, red osier dogwood, mock orange, choke cherry, currant and service berry seed and provided to the CTUIR Native Plant Nursery to be propagated for 2007 and 2008 projects.
- d. Gathered and installed a total of approximately 5,500 native willow cuttings in the Camas Creek Project Area, following removal of levees. Willows were planted by layering, stinging and creating brush mattresses. This project was part of a larger effort to remove the levees and restore stream channel meander. BPA funds provided \$6,200 in cost share to cover bioengineering costs under a \$45,950 operated equipment subcontract with Partney Construction. NOAA PCSRF and OWEB funds covered the remaining in-stream construction costs.
- e. Planted approximately 100 pounds of native grass seed on areas and temporary roads disturbed by construction equipment in the Camas Creek Project Area. Grass seed was obtained from nearby, local sites and donated by the UNF.

WE 34. Develop Alternative Water Source:

Title: Develop Upland Spring Sites and Stock Watering Ponds

Description: Developed upland spring sites and stock watering ponds to provide off-stream livestock water sources to better disburse livestock and utilize available forage in uplands, relieving concentrated grazing pressure and associated erosion problems in riparian and floodplain project areas.

2004 – 2005:

- a. Constructed and insulated a new well pump house, poured concrete pad, installed pump, plumbing and water trough, connected electricity (installed electric panel, conduit and wiring), excavated a trench and installed piping for off-stream watering in the Owens Creek Project Area (Standley Property).
- b. Constructed a new off-stream water development adjacent to the Lower Snipe Creek Project Area (Allstott Property)
- c. Located and determined eleven upland spring sites to provide alternate water sources for livestock adjacent to the Deer Creek Project Area (Berrey Property).

2005 – 2006:

- a. Coordinated with the Oregon Water Resources Department (OWRD), regarding permitting requirements for development of off-stream water developments in proposed lower NFJD River (Neal property) and Camas Creek (Fletcher Property) project areas.
- b. Transported troughs and plumbing materials to eleven upland spring development sites to provide alternative watering sites for livestock adjacent to the Deer Creek Project Area (Berrey Property).
- c. Completed two upland spring developments in the Deer Creek Watershed (Berrey Property).
- d. Identified three proposed upland stock watering ponds locations and one spring development site with a GPS Unit to determine off-stream watering areas for livestock to be excluded from Camas Creek.
- e. Installed watering trough, water line and well pump to provide off-stream watering in the Owens Creek Project Area.
- f. Developed two spring sites and constructed a cement catch basin in the upper Snipe Creek Project Area.
- g. Repaired a spring site within the lower Snipe Creek Project Area, where a solar panel had been previously stolen.

- h. Awarded a \$4,011 well drilling and off-stream water development construction subcontract to Marciel Well Drilling and Pumps, Inc. (partially reimbursed with WHIP funds) to provide a watering source for sheep outside of the lower NFJD Project Area.

2006- 2007:

- a. Completed six upland spring developments in the Deer Creek Watershed (Berrey Property); construction costs were funded with OWEB funds secured by the NFJDWC; BPA funds covered the costs of construction materials and transportation of those materials to the sites (only a total of eight of the originally intended spring sites were developed in 2005 – 2006 and 2006 – 2007 because the remaining three previously identified sites lacked available water).
- b. Constructed a dam and spillway to create a seasonal upland livestock watering pond on the Fletcher property to provide off-stream water for cattle restricted from Camas Creek riparian and floodplain areas.
- c. Completed and provided permits to OWRD for development of two upland stock ponds in 2007 on the Fletcher property; delays in the landowners signing a CTUIR Riparian Conservation Easement resulted in these projects being rescheduled for 2007 implementation.

WE 22. Maintain Vegetation:

Title: Maintain Vegetation Within Existing Project Areas With Herbicides

Description: Subcontracted services to treat noxious weeds with herbicides to improve growth, vigor and health of reintroduced native tree and shrub species within existing project areas. Noxious broadleaf weeds, listed in Umatilla and Grant County's Noxious A Weed Lists, were eradicated within existing project areas. Herbicide treatments occurred two to three times annually.

2004 – 2005:

- a. Awarded a \$ 4,200 Professional Services Agreement (PSA) to McLain Spraying for treatment of noxious weeds within the Deer Creek (Berrey Property) and Snipe Creek (Allstott Property) project areas; PSA was amended to include an additional \$1,663 to further address noxious weed problems within the Deer Creek Project Area.
- b. Installed 1,124 vexar tree shelters around mock orange, wild rose, quaking aspen and red alder trees planted within the lower Snipe Creek Project Area.
- c. Watered native trees previously planted in the lower Snipe Creek Project Area.

2005 – 2006:

- a. Prepared a bid packet and invited bids for noxious weed control within existing project areas, developed a subcontract and awarded a \$ 6,075 subcontract to McLain Spraying, LLC. Subcontract preparation was covered under BPA project dollars. The \$6,075 in subcontract services was funded with Berrey CREP reimbursement funds.
- b. Prepared and provided bid package, solicited bids and offered a pre-bid tour for the purchase and installation of 36,000 square feet of landscape fabric (2,400 linear feet) on the lower NFJD River (Neal and Cross-D Ranches properties); bids exceeded available BPA funds and non-completion of cultural resource surveys resulted in further delays; a contract was not awarded. Cross-D Ranches later chose not to enroll their property under an easement.

2006 – 2007:

- a. Developed a sole-source procurement for noxious weed control services to hire McClain Spraying, LLC to perform two herbicide treatments between March 13, 2007 and November 30, 2007 within the Snipe Creek, Owens Creek, Deer Creek and NFJD project areas.
- b. Subcontract obtained with McClain Spraying LLC. for weed control within the Snipe Creek, Owens Creek, Deer Creek and NFJD project areas. on the
- c. Installed 36,000 square feet of landscape fabric (2,400 linear feet) within the lower NFJD Project Area; the CTUIR purchased a Mulch Machine with BIA funds to complete this work (\$ 9,600).
- d. Installed 960 mulch mats around trees planted on streambanks and 1,000 tree shelters around trees planted into landscape and on streambanks within the lower NFJD Project Area.

WE 186. Operate and Maintain Habitat/Passage:

Title: Maintain Project Area Fences

Description: As necessary, existing riparian enclosure fences were maintained and repaired by project personnel to continue exclusion of livestock from stream and riparian areas. This insured continued improvement of stream channel stability, width to depth ratios, quality and quantity of spawning areas, off-channel habitat, and increased thermal cover, pool habitat, channel shading, and native plant recovery and succession for mammals and juvenile and adult summer steelhead and juvenile spring Chinook salmon. Sites included Snipe Creek (lower and upper Allstott Projects), Owens Creek (Standley Project), Deer Creek (Berry and Donati Projects) and the lower NFJD River (Neal Project).

2004 – 2005:

- a. Removed 1,584 feet of old fencing in the Owens Creek Project Area.

(how much)

- b. Removed approximately 1,320 feet of old fencing in the Deer Creek Project Area.
- c. Relocated fence construction materials from the UNF – NFJD Ranger District Compound to a private property in Ukiah, Oregon; a storage contact was developed with the property owner to cover monthly storage costs.

2005 – 2006:

- a. Performed general maintenance of fences and gates.

2006 – 2007:

- a. Performed general maintenance of fences and gates.

WE 186. Operate and Maintain Habitat/Passage:

Title: Maintain Project Area Water Developments

Description: Continued prevention of livestock watering from streams to better distribute livestock in upland areas, improving grazing management, stream channel stability, width to depth ratios, quality and quantity of spawning areas, off-channel habitat, and increased thermal cover, pool habitat, channel shading, and native plant recovery and succession for mammals and juvenile and adult summer steelhead and juvenile spring Chinook salmon. Sites included Snipe Creek (lower and upper Allstott projects), Owens Creek (Standley Project), Deer Creek (Berry and Donati Projects) and the lower NFJD River (Neal Project). This WE included maintenance of wells, troughs, pumps and associated plumbing.

2004 – 2005:

- a. Installed a new pump in an existing well at the Snipe Creek Project Area (lower Allstott Property).
- b. Sloped an eroding stream bank within a livestock water gap in the Upper Snipe Creek Project Area.
- c. Maintained weeds, encroaching on solar panels, with a weed eater at livestock watering sites in the lower Snipe Creek and Deer Creek project areas.

2005 – 2006:

- a. Repaired a water gap, which had washed out during a high flow event, in the Owens Creek Project Area.
- b. Insulated a well house in the lower Snipe Creek Project Area.

2006 – 2007:

- a. Maintained existing structures on Snipe Creek, Deer Creek, and NFJD projects.

WE 26. Investigate Trespass:

Title: Investigate All Existing Project Areas for Livestock Trespass

Description: Inspected existing project areas to insure livestock trespass did not occur with riparian enclosures. Removal of livestock improved stream channel stability, width to depth ratios, quality and quantity of spawning areas, off-channel habitat, and increased thermal cover, pool habitat, channel shading, and native plant recovery and succession for mammals and juvenile and adult summer steelhead and juvenile spring Chinook salmon. Sites included Snipe Creek (lower and upper Allstott projects), Owens Creek (Standley Project), Deer Creek (Berry and Donati Projects) and the lower NFJD River (Neal Project).

2004 – 2005:

- a. Routinely checked project areas for trespass livestock. Any livestock discovered within riparian enclosure fences were promptly removed.

2005 – 2006:

- a. Routinely checked project areas for trespass livestock. Any livestock discovered within riparian enclosure fences were promptly removed.

2006 – 2007:

- a. Routinely checked project areas for trespass livestock. Any livestock discovered within riparian enclosure fences were promptly removed.

WE 157. Collect/Generate/Validate Field and Lab Data:

Title: Collect Data to Monitor Project Effectiveness

Description: Collected pre and post-project data to assess short and long-term effects of habitat enhancements.

2004 – 2005:

- a. Coordinated with Oregon State University – Hermiston Agricultural Research and Extension Center entomologists, David Wooster and Sandra DeBano, to attempt obtainment of cost share assistance and technical support for fiscal year 2005 macroinvertebrate sampling at project sites.
- b. Photographed annual project photo points within all existing project areas.
- c. Deployed six thermographs to collect stream temperature data in the

upper and lower Snipe Creek, Camas Creek and Deer Creek project areas.

2005-2006:

- a. Collected cross-section data to assess geomorphological conditions and assist in determining necessary project design for removal of levees that were confining approximately 1,100 feet of Camas Creek on the Fletcher property. The NFJDWC provided personnel to assist with data collection.
- b. Participated in a John Day Basin Water Quality Monitoring Coordination Workshop to increase awareness of on-going monitoring efforts and improve data sharing among agencies. Presentations included: (1) utilization of NOAA Fisheries access database for efficient storage and retrieval of temperature data, (2) an overview of the Oregon Department of Environmental Quality's (ODEQ) Northwest Water Quality Data Exchange Project, (3) an update on the BOR's Federal Research, Monitoring, and Evaluation Program, (4) an update on ODEQ's John Day Total Maximum Daily Load (TMDL) Study and an overview of South Fork John Day LIDAR capabilities, (5) a discussion by CRITFC regarding coordination with regional monitoring initiatives, and (6) OWEB effectiveness monitoring.
- c. Deployed seven thermographs to collect stream temperature data in the upper and lower Snipe Creek, Camas Creek and Deer Creek project areas.
- d. Photographed annual project photo points within all existing project areas and established new points on Deer Creek.

2006-2007:

- a. Conducted pre-implementation bird utilization surveys within the Camas Creek Project Area.
- b. Deployed seven thermographs to collect stream temperature data in the upper and lower Snipe Creek, Camas Creek and Deer Creek project areas.
- c. Photographed annual project photo points within all existing project areas and established new points within the Camas Creek Project area.

WE 159. Submit/Acquire Data:

Title: Acquire and Submit Stream Temperature Data to NOAA

Description: Provided stream temperature data to the Monument SWCD to upload to NOAA's Access Database.

2004 - 2005:

- a. Downloaded 2003 stream temperature data from thermographs and

provided to the Monument SWCD.

- b. Downloaded 2004 stream temperature data from the six thermographs deployed in the upper and lower Snipe Creek, Camas Creek and Deer Creek project areas and provided to the Monument SWCD.

2005 – 2006:

- a. Downloaded 2005 stream temperature data from thermographs and provided to the Monument SWCD.

2006 – 2007:

- a. Downloaded 2006 stream temperature data from thermographs and provided to the Monument SWCD. Provided to the Monument SWC district as agreed.

WE 99. Outreach and Education:

Title: Provide Local Community-Based Outreach and Education

Description: Conducted outreach efforts (public meetings, tours, mailings and presentations) to obtain local input, identify landowner and resource agency concerns, provide educational opportunities, and promote stream habitat restoration and protection; provide coordination between the project and participating landowners and various fish and wildlife personnel involved in project work.

2004-2005:

- a. Participated in Monument SWCD's Resource Fair to familiarize landowners of opportunities to implement habitat restoration activities on their properties under this project and provided career information to local students.

2005 – 2006:

- a. Participated in Monument SWCD's Resource Fair to familiarize landowners of opportunities to implement habitat restoration activities on their properties under this project and provided career information to local students.

2006 – 2007;

- b. Participated in Monument SWCD's Resource Fair to familiarize landowners of opportunities to implement habitat restoration activities on their properties under this project and provided career information to local students.

WE 119. Manage and Administer Projects:

Title: Produce Required Project Deliverables and Provide to BPA

Description: Produced and submitted Statements of Work (SOW's), budgets,

property inventories, accrual reports, metric forms for each applicable Reasonable and Prudent Alternative (RPA), project deliverables and project accomplishment narratives to the BPA COTR.

2004 - 2005:

- a. Completed and submitted the 2004 work schedule to BPA.
- b. Provided a tour of existing and proposed habitat enhancement projects to John Baugher, BPA COTR.
- c. Participated in BPA Fish and Wildlife's Pendleton, Oregon – PISCES Training Workshop.
- d. Completed and submitted: (1) Bi-Op Metrics Form RPA 150 and Bi Op Metrics Form RPA 153, (2) 2005 SOW comprised of PISCES WE Descriptions, (3) 2005 PISCES WE-Based-SOW Spending Plan, (4) 2005 Line Item Budget, (5) 2005 Budget by WE, and (6) Property Inventory List to BPA for review and comment.

2005 – 2006:

- a. Completed and resubmitted a revised FY 2005 SOW Spending Plan to BPA.
- b. Incorporated BPA COTR's edits into the 2005 SOW by PISCES WE and resubmitted to BPA.
- c. Prepared 2006 BPA Project Proposal in PISCES format and submitted to NPCC.
- d. Completed and submitted: (1) Bi-Op Metrics Form RPA 150 and Bi Op Metrics Form RPA 153, (2) 2006 SOW comprised of PISCES WE Descriptions, (3) 2006 PISCES WE-Based-SOW Spending Plan, (4) 2006 Line Item Budget, (5) 2006 Budget by WE, and (6) Property Inventory List to BPA for review and comment.
- e. Prepared 2007 – 2009 BPA Project Proposal and submitted to NPCC.
- f. Provided a tour of the project's Deer Creek Project Area to the NPCC.

2006 – 2007:

- a. Provided a tour of existing and proposed habitat enhancement projects to John Baugher, BPA COTR.
- b. Completed and submitted: (1) 2007 SOW comprised of PISCES WE Descriptions, (2) 2007 PISCES WE-Based-SOW Spending Plan, (3) 2007 Line Item Budget, (4) 2007 Budget by WE, and (5) Property Inventory List to BPA for review and comment.

WE 185. Produce Pisces Status Reports:

Title: Periodic Status Reports for BPA

Description: Reported on the status of milestones and deliverables as identified in the SOW. Pisces Status Reports were completed quarterly. Quarterly Reports that were provided prior to development of Pisces Status Reporting have also been documented under this WE.

2004-2005:

- a. Completed and submitted Project Year 2004 – 2005 (April 2004 – March 2005) Quarterly Reports to BPA.

2005 – 2006:

- a. Completed and submitted Project Year 2005 – 2006 (April 2005 – March 2006) Quarterly Reports to BPA.
- b. Installed PISCES Account on Project Leader's computer.
- c. Completed and provided PISCES Status Reports (September 05, December 05, June 06) to BPA.

2006 – 2007:

- a. Completed and provided PISCES Project Year (April 2006 – March 2007) Status Reports to BPA.

WE 132. Produce Annual Reports:

Title: Produce an Annual Report and Provide to BPA

Description: Developed Annual Reports to document project progress as per contract specifications between the CTUIR and BPA. These reports included details of project accomplishments for WE's included within the SOW.

2004-2005:

- a. Completed and submitted 2003 – 2004 annual report to BPA.

2005 – 2006:

- a. 2004 – 2005 annual report is part of this document.

2006 – 2007:

- a. 2005 – 2006 and 2006 – 2007 annual report are part of this document.

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