



SOUTH FEATHER WATER & POWER

TO: Board of Directors

FROM: Michael Glaze, General Manager

DATE: June 16, 2005

RE: General Information (regarding matters not scheduled on the agenda)
6/28/05 Board of Directors Meeting

Yuba County Water District Agreement

You approved the agreement with Yuba County Water District at last month's meeting and YCWD's board also approved the agreement at the end of that same week. Attached is an Appeal-Democrat article that was published on June 4 regarding the agreement's approval.

The picture at right is of YCWD directors (seated left to right) Jenny Brown, Loren Olsen and Dale Storey signing the agreement. Standing (left to right) are Dennis Parker (YCWD General Manager), Jean Brown (SFWPA director) and Alan Lilly (YCWD legal counsel).



Strategic Planning for Future Power Marketing

Although SFWPA's current power-purchase agreement (PPA) with PG&E does not expire until 2010, it would be prudent for us to begin the process to either renew the existing agreement or secure a replacement. However, before we spend a lot of time considering one of the options that may be presently apparent, the Agency should first develop a strategy to ensure that our valuable hydropower resource will be optimized in the electricity market of the coming years.

Developing a strategy for securing an optimal future power-purchase agreement requires expertise in electric power markets, the ability to quantitatively and qualitatively analyze the economics and technical implications of market opportunities, and an understanding of emerging technologies and evolving regulatory models. Thus, although we have significant expertise in operating and maintaining our hydropower plants and auxiliary facilities, we need assistance in planning for the future.

To move us closer to being able to commence that future planning, I have begun requesting statements of

qualifications from energy/financial advisory firms that could assist us in negotiating the next-generation power-purchase agreement. Between now and the Board's meeting in July, I will present my findings and recommendations to the Hydro Committee for subsequent recommendations to the full Board.

Development Standards

Although the Agency's Rules & Regulations Governing Water Service has information and requirements about annexing property to the Agency and extending main lines, it is not sufficiently comprehensive to provide developers and their engineers with a complete understanding of what they should include in plans and specifications for their projects.

With Matt Colwell's assistance we are close to completing "Development Standards for Treated Water Systems" that not only include detailed specifications on all aspects of water-system improvements that a developer would be required to construct, but a Developers Guideline that will assist developers and engineers in knowing how to expeditiously satisfy Agency requirements for getting water service, as well as a master Conveyance Agreement that would be signed by a developer before building a project to ensure that all requirements are understood and satisfied before there is an application for water service.

These draft documents will be submitted shortly to the Policy Committee for review and comment and, ultimately, a recommendation to the Board for adoption (hopefully at the July Board meeting).

Relicensing Update

Attached is Devine, Tarbell & Associates' progress report through May 29, 2005. The first page thereof includes an index by "activity description" for each task and where information on it can be found in the report.

Annual Facilities Tour

Invitations were sent to 44 guests for this year's Facilities Tour (June 30). At this writing, I'm anticipating an entourage of approximately 40, including directors and staff drivers.

Water districts end dispute

By Harold Kruger/Appeal-Democrat

Two foothill water districts have called a truce in their decades-long dispute, hammering out a deal that should benefit both for years to come.

Yuba County Water District and South Feather Water & Power Agency approved a new pact that keeps both as partners in the South Feather Power Project. They had been operating under a 1959 accord.

"The goal of the agreement is to comprehensively settle the disputes and disagreements that have plagued the two districts for the past 50 years," said South Feather General Manager Mike Glaze.

"It steps over the fact that YCWD failed to develop its own water supplies and has always been dependent on (South Feather) and accepts the fact that that dependence will probably always exist," he said. "We worked hard to anticipate and provide mechanisms to resolve future issues, but only time will attest to the clarity of our crystal ball."

The State Water Resources Control Board had set a June 1 deadline for both sides to come to an agreement, which they approved last week.

"This was a truly historic moment made possible by the two districts' ability to set aside earlier differences and long-standing contentiousness, and work towards mutual benefits for large areas of Yuba and Butte counties," said YCWD General Manager Dennis Parker.

Brownsville-based YCWD covers about one-third of Yuba County, from Strawberry Valley to just short of Loma Rica, plus a small portion of Butte County.

South Feather, headquartered in Oroville, and YCWD have been partners in the South Feather Power Project since 1958 when South Feather built seven reservoirs on the Feather River's south fork, along with a diversion project on Slate Creek, a tributary of the north fork of the Yuba River.

South Feather, formerly the Oroville-Wyandotte Irrigation District, holds the power supply contract with Pacific Gas and Electric Co. The federal license for the hydroelectric facility is up for renewal in 2010, along with the power contract.

YCWD "committed itself to rising above the disputes of the past and entering into a perpetual cooperative relationship with South Feather Water & Power Agency," Glaze said.

The agreement "secures a water storage system needed for YCWD's anticipated growth, and also provides it with a financing mechanism to expand its system in the future. Absent the agreement, YCWD would very likely have been forced to limit any growth within its jurisdiction until it could afford to build its own reservoir," he said.

Parker said the pact "should firmly assure the future viability" of his district and cited these benefits:

- ▣ Allowing YCWD to meet its long-term water requirements.
- ▣ Probably eliminating the Yuba County Water Agency's commitment to provide up to 19,000 acre-feet of water from Bullards Bar Reservoir beginning in 2016.
- ▣ A cooperative pursuit of Federal Energy Regulatory Commission relicensing of the South Feather project, and a means of financing several million dollars of relicensing expenses.
- ▣ Giving YCWD the ability to continue selling 4,500 acre-feet per year to Yuba City.
- ▣ Transferring ownership to YCWD of the 10.5-mile upper Forbestown Ditch, currently the district's lifeline and only means of conveying water supplies.

Parker credited the Water Agency with helping YCWD survive. "Without the agency's support, financial and otherwise, the district might have been dismantled long ago," he said.

Glaze said the agreement allows South Feather "to plan early and with certainty what it can expect in cost and revenue from its hydroelectric project after 2010" and "ensures (South Feather) that YCWD will cooperate in the ongoing efforts to relicense the hydro project with FERC."



Devine Tarbell & Associates, Inc.
Consulting Engineers, Scientists, & Regulatory Specialists

PROGRESS REPORT

Obtain New License for
South Feather Water & Power Agency's
South Feather Power Project
(FERC Project No. 2088)

PROGRESS REPORT April 25, 2005 – May 29, 2005

Contract Execution Date: January 22, 2002

Term: Open, until terminated by SFWPA on 14 day notice

Contract Total: \$4,427,658

Type: Consulting Services Agreement for consulting work on an as-requested basis using periodic scope/budget approvals from the SFWPA Board

Annual Rate Changes: Adjusted annually on January 1 based on US Department of Labor Statistics Employee Cost Index (non-farm private industry workers)

Subconsultant Mark-Up: 5%, excluding Stillwater Sciences

Last Scope/Budget Approval: April 26, 2005

Current Outstanding Invoices: None

Task/Subtask	Activity Description	Lead	Change Since Last Report?		Page Number
			Yes	No	
-----	Project Manager's Overall Summary	Lynch	X		2
-----	Tasks/Subtasks Completed & Closed	Lynch	X		2
2	ProjectNet Management	Tansey	X		4
5.1	Upgrades Phase 1 Investigations	Hudson		X	4
8	Project Management/Administration	Lynch	X		4
9.2	CHEOPS Operations Model	Holzmer	X		5
9.11	Water Chemistry	Hume	X		5
9.21	Fish Populations	Wilcox	X		5
9.22	Instream Flow	Wilcox	X		6
9.24	Fish Entrainment	Wilcox		X	6
9.30	Special Status Plants	Orr	X		6
9.31	Riparian Vegetation	Orr	X		7
9.40	Miners Ranch Habitat Connectivity	Champe	X		7
9.50	Cultural Surveys	Peak		X	7
9.51	Ethnographic Surveys	Blout	X		8
9.60	Recreational Use	Paquette	X		8
9.80	Sediment Transport	Stallman		X	9
10.1	Water Temperature 2005	Hume	X		9
10.2	Forbestown SNTMP Model	Wilcox	X		10
10.3	FYLF Flow/Habitat	Champe	X		10
10.4	Northern Goshawk 2005	Champe	X		11
10.5	California Spotted Owl 2005	Champe	X		11
10.6	Slate Creek Fish Population	Wilcox		X	11
10.7	Recreational Use at Day Use Areas	Paquette	X		12
10.8	Whitewater Boating Consultation	Bricker	X		12
10.9	Anadromous Fish Issues	Wilcox	X		13
-----	Schedule for Next Period's Fieldwork	Wilcox	X		14



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Activity: Project Manager's Overall Summary
Lead: Jim Lynch
Date: May 18, 2005
On Schedule: Yes No **Term:** March 31, 2007
On Budget: Yes No **Budget:** \$4,427,658

Status: The Contract Work includes providing requested services to SFWPA to support obtaining a new license for the South Feather Power Project, FERC Project No. 2088 (Project). The current license expires March 31, 2007. DTA is the prime Consultant for the work and utilizes subconsultants as requested and as-needed, the most noteworthy of which are Stillwater Sciences, Peak & Associates and Albion Environmental.

To date, SFWPA has authorized DTA 48 tasks/subtasks. Twenty-four of these have been completed and closed and 24 remain active. DTA expects that in the next invoice, about 1-3 additional tasks/subtasks (Subtasks 5.1- Phase 1 Investigations, Subtask 9.11 - Water Chemistry, and Subtask 9.30 - Special-status Plants) will be completed and closed.

Major activities completed during this period included: 1) coordination of the May 20 site visit; 2) holding a May 23 Operations Model training for resource agencies; 3) coordination with Relicensing Participants to finalize 2005 studies; 4) obtain comments on the March 2005 Revised Draft Exhibit E; and 6) the various technical tasks described below.

Major activities scheduled for the next period include: 1) holding a May 31 Agency/Tribes Workshop to obtain comments on the Revised Draft Exhibit E; 2) issuing the Water Chemistry report; 3) holding a June 17 meeting with the Whitewater Boating Workgroup to finalize the study plans; 4) various consultation with agencies; and 5) continued relicensing assistance as needed.

A July 2005 fieldwork schedule is attached to this progress report.

Overall, the Work is on schedule and within budget. The Notice of Intent (NOI) and First Stage Consultation Document (FSCD) were issued in September 2003. Following consultation with resource agencies, Indian tribes and other interested parties, a 2004 Study Plan was filed with FERC on April 8, 2004. Studies were performed during 2004, and a revised Draft Exhibit E was distributed on March 8, 2005. On April 1, 2005, DTA met with resource agencies to finalize, to the extent possible, 2005 studies. The SFWPA Board approved the 2005 studies and budget at an April 26, 2005 meeting and the studies are underway. A Draft License Application (DLA) is scheduled for distribution in July 2006, and the License Application (LA) is scheduled to be filed with FERC by March 2007.

As of DTA's June 17, 2005 invoice to SFWPA, a total of \$3,125,581.22 of the budget (71%) had been expended.

Activity: Completed & Closed Tasks/Subtasks
Lead: Jim Lynch
Date: May 18, 2005
On Schedule: Yes No **Term:** April 26, 2005
On Budget: Yes No **Budget:** \$1,725,453.19

Status: Tasks 1, 3, 4, 5.0, 6 & 7 and Subtasks 9.1, 9.3, 9.10, 9.12, 9.20, 9.23, 9.25, 9.32, 9.33, 9.41, 9.42, 9.43, 9.44, 9.45, 9.61, 9.70, 9.81, & 9.82 are closed tasks/subtasks. The combined budget for these tasks as adjusted upon closure was \$1,725,453.19. A brief description of each task is below.



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Task 1, Kick-off Meeting, was completed in 2003. The cost at completion was \$11,732.31.

Task 3, Public Library, was preparation and maintenance of the 5-year public library as required by FERC regulations. This has been completed and ongoing material will be placed on the Relicensing Website (ProjectNet) to meet FERC requirements. ProjectNet is included in Task 2. The cost at completion for Task 3 was \$30,822.37.

Task 4, Strategic Planning, covered strategic planning activities. This work has been combined with Task 8, Project Management/Administration, in early 2005 to simplify the budget. Cost at completion was \$82,444.49.

Task 5.0 Generation Enhancements

- Subtask 5.0, Project Enhancements, included the pre-feasibility investigation of potential Project operations and physical modifications to enhance Project generation. A report was provided to SFWPA, which led to Subtask 5.1, Phase I Investigations, which is an open task. Cost at completion was \$280,000.

Task 6, Needed Studies, covered studies that were required by resource agencies in late 2003/early 2004, prior to formal approval of the 2004 Studies. The studies are complete and cost at completion was \$119,134.53.

Task 7, First Stage Consultation Document (FSCD), included preparation and distribution of the FSCD, development of 2004 study plans, responding to letters regarding the proposed study plans, consultation with resource agencies to resolve any disputes regarding the plans, and finalizing and filing a final 2004 study plan. The FSCD was issued in September 2003, and study plans filed in April 2004. Cost at completion was \$340,631.89.

Task 9, 2004 Studies. Task 9 included 30 subtasks (each subtask as separate study). Each of the 13 subtasks listed below are complete and included an assessment of Project effects and development of preliminary resource management measures as well as inserting the study report directly into the March 2004 Revised Draft Exhibit E. Cost at completion is shown in parenthesis.

- Subtask 9.1, Indicators of Hydrologic Alteration (\$11,962.86)
- Subtask 9.3, Reservoir Bathymetry (\$41,224.42)
- Subtask 9.10, Mercury Bioaccumulation (\$47,326.71)
- Subtask 9.12, Water Temperature (\$102,379.83)
- Subtask 9.20, Aquatic Bioassessment (\$67,234.56)
- Subtask 9.23, Amphibians and Aquatic Reptiles 2004 (\$107,054.20)
- Subtask 9.25, Stream Habitat Mapping (\$80,258.73)
- Subtask 9.32, Wetlands (\$69,070.63)
- Subtask 9.33, Vegetation Mapping (\$21,576.62)
- Subtask 9.41, Special-status Bats (\$75,871.84)
- Subtask 9.42, Valley Elderberry Longhorn Beetle (\$15,718.13)
- Subtask 9.43, Bald Eagle (\$15,406.21)
- Subtask 9.44, Goshawk 2004 (\$52,288.32)
- Subtask 9.45, Spotted Owl 2004 (\$57,325.18)



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- Subtask, 9.61 Whitewater Boating (\$24,234.25)
- Subtask 9.70, Land Use (\$10,761.10)
- Subtask 9.81, Large Woody Debris (\$37,537.08)
- Subtask 9.82, Shoreline Erosion (\$23,440.70)

The work was completed on schedule, and the Board approved the final task budgets at its April 26, 2005 meeting.

Activity: Task 2 – ProjectNet
Lead: Cheri Tansey
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$71,000

Status: Task 2, ProjectNet, includes set-up, management and maintenance of ProjectNet, a document management system that facilitates the development of relicensing documents and sharing of information among SFWPA's Relicensing Team. ProjectNet also helps SFWPA meet its requirements for a 5-year public library readily available to the public and serves as the Relicensing Website.

Work completed in this period includes ProjectNet monthly maintenance fees, setting up folder structures and maintaining files on ProjectNet, setting up new users and providing ProjectNet support to existing users, posting recent documents such as meeting notices and meeting summaries and providing .

Work scheduled for the next period includes ProjectNet monthly maintenance fees, setting up folder structures and maintaining files on ProjectNet, setting up new users and providing ProjectNet support to existing users, and posting recent documents such as meeting notices and meeting summaries.

As of DTA's June 17, 2005 invoice to SFWPA, a total of \$36,196.06 of the budget (51%) had been expended.

Activity: Subtask 5.1 – Phase 1 Investigations
Lead: Ed Hudson
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$300,000

Status: Subtask 5.1, Phase 1 Investigations, includes a feasibility study of the more attractive potential generation enhancements identified during the Project Enhancements Study (Subtask 5.1). A presentation was made to the Hydro Committee and Board in January 2005.

A final report is in preparation (due by July15, 2005), which will close this subtask.

As of DTA's June 17, 2005 invoice to SFWPA, a total of \$260,490.10 of the budget (87%) had been expended. DTA expects that subtask will be under-budget at completion by about \$15,000.

Activity: Task 8 – Project Management/Administration
Lead: Jim Lynch



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Date: May 18, 2005

On Schedule: Yes No

On Budget: Yes No

Term: December 31, 2005

Budget: \$415,446.10

Status: Task 8, Project Management/Administration, includes all activities related to management and administration of the work.

Work during this period included: 1) preparation of, participation in and following-up on a presentation to the Hydro Committee and Board on April 26, 2005; 2) coordination of the May 20 site visit; 3) May 23 Operations Model training for resource agencies; 4) general Project management/administration and strategic planning; and 5) preparation of the progress report.

Work scheduled in the next period includes: 1) holding a May 31 Agency/Tribe Workshop at DTA to obtain comments on the Revised Draft Exhibit E; 2) holding a June 17 Whitewater Boating Study Workgroup workshop at Forbestown; 3) following-up on various agency contacts regarding the two previous-mentioned workshops; 4) general Project management/administration and strategic planning; and 5) preparation of the progress report.

As of DTA's June 17, 2005 invoice to SFWPA, a total of \$198,910.52 of the budget (48%) had been expended.

Activity: Task 9.2 – Operations Modeling

Lead: Fred Holzmer

Date: May 18, 2005

On Schedule: Yes No

On Budget: Yes No

Term: December 31, 2005

Budget: \$91,000

Status: This subtask includes the development of a South Feather Power Project CHEOPS Operations Model, preparation of a validation report, training for any resource agency staff that intends to run the model, and making selected runs. The model has been developed validated, and was described in the March 2004 Revised Draft Exhibit E.

Work during this period included preparation of, participation in and following-up on a May 23 Agency Operations Model Training Workshop.

Work scheduled for the next period includes following-up on the May 23 Operations Model Training Workshop.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$62,247.12 of the budget (68%) has been expended.

Activity: Task 9.11 – Water Chemistry

Lead: Noah Hume – Stillwater Sciences

Date: May 18, 2005

On Schedule: Yes No

On Budget: Yes No

Term: December 31, 2005

Budget: \$196,072

Status: This subtask includes collecting and analyzing water chemistry samples in Project reservoirs and reaches. All samples were collected in 2004, but laboratory analysis were not available for inclusion in the March 2004 Revised Draft



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Exhibit E (all other sections of report included in exhibit).

The water chemistry report was issued to the State Water Board in May 2005, discussed at the May 31 Workshop, and posted on the Relicensing Website (notice sent to all Relicensing Participants regarding availability of report). The State Water Board and others are reviewing the report.

Work scheduled for the next period includes responding to questions from the State Water Board and others regarding the Water Chemistry Report, including providing the requested additional information.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$138,221.64 of the budget (70%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 9.21 – Fish Populations
Lead: Scott Wilcox – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$87,541
Status: This subtask includes sampling fish populations in Project reservoirs and reaches. All work was completed in 2004 and the report included in the March 2005 Revised Draft Exhibit E. However, the results and conclusions sections will not be completed until after collection of 2005 data under the ongoing Fish Population Monitoring Program.

Work completed in this period includes analyses of historical data in preparation for the next revision of Revised Draft Exhibit E.

Work scheduled for the next period includes continuation of analyses of historical data. No fieldwork is scheduled for the next period.

The work is on schedule. A summary of information collected to date, but no results or conclusions, was included in the March 2004 Revised Draft Exhibit E. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$47,656.35 of the budget (54%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

A total of \$3,352.16 in charges for Anadromous Fish (Subtask 10.9) were previously applied to this task and will be moved to Task 10.9 in an upcoming invoice.

Activity: Task 9.22 – Instream Flow
Lead: Scott Wilcox – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$276,283
Status: This subtask includes instream flow planning, field studies, and model simulations. All site selection and scoping, and nearly all fieldwork was completed in 2004. Permit approval to release higher flows through the



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Forbestown Diversion low-level outlet is required to collect the final high flow calibration data set. Most work on this task was on hold during this period.

Work completed in this period includes planning and preparation for June sampling in the Forbestown Diversion Reach, including working with the SWRCB on the 401 permit application.

Work scheduled for the next period includes mobilization for the final field work effort, and additional planning for habitat suitability criteria development.

The work is behind schedule due to the reasons described above. A summary of methods employed to date, but no results or conclusions, was included in the March 2005 Revised Draft Exhibit E. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$127,135.55 of the budget (46%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 9.24 – Fish Entrainment
Lead: Scott Wilcox – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$38,526

Status: This task includes a table top analysis of the potential for significant fish entrainment at Project intakes. The study requires the fish population data (above subtask), which will not be available until October 2005. We will include the report in Revised Draft Exhibit E when the next version is issued.

No work occurred during this period.

Work scheduled for the next period includes report preparation.

The work is on schedule: a summary of methods employed to date, but no results or conclusions, was included in the March 2004 Revised Draft Exhibit E. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$5,849.77 of the budget (15%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 9.30 – Special-status Plants
Lead: Bruce Orr – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$128,082.71

Status: Work on this task is complete and only final billings remain. We anticipate this task will be closed in the June 2005 invoice.

As of DTA's June 17, 2005 invoice to SFWPA, a total of \$127,082.71 of the budget (99%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.



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Activity: Task 9.31 – Riparian Vegetation
Lead: Bruce Orr – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$120,151.00
Status: This subtask includes riparian vegetation studies along reservoirs and streams in the Project area.

Work completed in this period includes data analysis and drafting of the riparian report section for the Draft License Application. Updates to the report were made based on the tree ring analysis and comparison to results of the geomorphic analysis.

Work scheduled for the next period includes continued report preparation, with a target internal review date of early July.

The work is behind schedule due to delays associated with receipt of lab data on tree ring analysis, and the need to use data from the final channel morphology report. A summary of methods employed to date, but no results or conclusions, was included in the March 2004 Revised Draft Exhibit E. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$102,824.64 of the budget (86%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 9.40 – Miners Ranch Wildlife Habitat Connectivity
Lead: Christine Champe – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$92,096

Status: This task investigates the potential for the Miners Ranch Conduit to significantly affect wildlife habitat connectivity. The results of the late 2004 surveys were included in the March 2005 Revised Draft Exhibit E, and fieldwork is scheduled through June 2005.

Work completed in this period includes continued monitoring of wildlife crossings, including download of remote sensing cameras at wildlife crossings, maintenance of tracking plates, and analysis of tracking plate prints.

Work scheduled for the next period includes continued monitoring of wildlife crossings, as described above. Report revisions will begin in July, and a revised report will be included in the next draft of the Revised Draft Exhibit E.

The work is on schedule: a summary of methods employed to date, and initial results, was included in the March 2004 Revised Draft Exhibit E. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$48,702.38 of the budget (53%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 9.50 – Archeological and Historical Surveys
Lead: Melinda Peak – Peak & Associates



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Date: May 18, 2005

On Schedule: Yes No

On Budget: Yes No

Term: December 31, 2005

Budget: \$128,554

Status: This subtask includes the inventory of cultural resources located within the Project APE.

No work was done in this period.

Work scheduled for the next period includes the completion of the field inventory for cultural resources within the Project APE.

The work is on schedule: a summary of methods employed to date, but no results or conclusions, were included in the March 2004 Revised Draft Exhibit E. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$490.70 of the budget (0.004%) has been expended.

Activity: Task 9.51 – Ethnographic Surveys

Lead: Clinton Blount – Albion Environmental

Date: May 18, 2005

On Schedule: Yes No

On Budget: Yes No

Term: December 31, 2005

Budget: \$85,000

Status: This subtask includes consultation with interested Native American groups and individuals, archival and background research, an ethnographic inventory and identification of Traditional Cultural Properties for the South Feather Power Project.

During this period, we contacted the Strawberry Valley Band of Maidu and Maidu who participate in a basketry class at Mooretown Rancheria. Enterprise Rancheria and Berry Creek Rancheria have requested more time before they decide whether or not they wish to be involved in the Relicensing consultation process.

Work scheduled for the next period includes continued correspondence with Enterprise Rancheria, Berry Creek Rancheria, and Strawberry Valley Band of Maidu.

The work is on schedule. A summary of methods employed to date, but no results or conclusions, were included in the March 2005 Revised Draft Exhibit E. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$36,016.82 of the budget (42%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 9.60 – Recreation Use

Lead: Matt Paquette

Date: May 18, 2005

On Schedule: Yes No

On Budget: Yes No

Term: December 31, 2005

Budget: \$94,028

Status: This subtask includes the following steps: 1) estimating current use of developed recreation facilities within the FERC Project Boundary; 2) estimating future use and demand of developed recreation facilities within the FERC Project Boundary; 3) an inventory site condition at developed facilities; 4) gathering Existing information regarding ongoing



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O&M and gross/net revenue for existing recreation developed facilities; 5) identifying recreation uses and conflicts at developed recreation facilities; 6) documenting ADA compliance at developed facilities; 7) gathering existing information regarding law enforcement/patrolling at developed recreation facilities; 8) identifying recreation uses and conflicts at Project facilities without developed recreation facilities; 9) identifying potential project restrictions to public access at Project facilities without developed recreation facilities; and 10) gathering Existing Use Information for Dispersed Sites Within FERC Project Boundary.

To date, all the subtasks listed above, except the site condition inventory (subtask 2) and ADA assessment (subtask 6), have been completed with their results in the revised Exhibit E Report. In a meeting on May 19, 2005, the PNF provided several comments for further revisions to the results provided in the Revised Draft Exhibit E, primarily related to additional analyses to be performed on the visitor survey data already collected (as part of subtask 5, above) and several other minor clarifications. It was agreed at the meeting that these changes would be provided in the next revision of the Revised Draft Exhibit E Report in late 2005/early 2006. Of note, the site condition/inventory/ADA compliance subtasks not yet completed are scheduled to be done on July 12-14, 2005 in conjunction with PNF personnel.

Work scheduled for the next period includes collaboration with the PNF in preparation for the upcoming Facility Condition, Inventory and ADA Compliance field surveys that are currently scheduled for July 2005.

The work is on schedule: a summary of methods employed, results and conclusions on the subtasks completed to date were included in the March 2005 Revised Draft Exhibit E. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$61,191.24 of the budget (65%) has been expended.

Activity: Task 9.80 – Sediment Transport
Lead: Jay Stallman – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$166,125
Status: This subtask is nearly complete. All originally planned 2004 work was completed and the report included in the March 2005 Revised Draft Exhibit E. Evaluation of Lost Creek flushing flow requirement is planned in 2005.

No work scheduled for the next period, pending completion of spring runoff. Evaluation of Lost Creek flushing flows will be conducted in summer 2005, and the results included in the next draft of the Revised Exhibit E.

The work is on schedule: a report on sediment transport was included in the March 2005 Revised Draft Exhibit E. The report will be appended with information from Lost Creek in 2005. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$141,124.47 of the budget (85%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 10.1 – 2005 Water Temperature Monitoring
Lead: Noah Hume – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$50,000



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Status: At the request of the State Water Board and CDFG, 37 continuous water temperature recorders installed and operated in 2004 were left in place to record water temperatures through October 2005. This subtask includes routinely monitoring these recorders, retrieving them by November 2005, and incorporating the results into the Revised Draft Exhibit E.

Work completed in this period included retrieval of a few thermographs, and planning for retrieval and download of the remaining thermographs and deployment of several new thermographs. This fieldwork has been delayed due to late rains and high run-off conditions.

Work scheduled for the next period includes spring data downloads, and installation of thermographs in Miners Ranch Canal. At the request of the resource agencies at a May 31 Workshop, and with Mike Glaze's approval, we will install and maintain two additional continuous water temperature gages: one at the intake to Miners Ranch Canal at Ponderosa Reservoir and the other at the outlet of Miners Ranch Conduit into Miners Ranch Reservoir. In addition, we will work with SFWPA staff to provide the results of this the monitoring at the Miners Ranch Water Treatment Plant in the next version of the Revised Draft Exhibit E.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$0 of the subtask budget of \$50,000 (0%) has been expended. Installation, monitoring, and reporting tasks associated with the new thermographs are expected to cost approximately \$3,000, which will be absorbed into the existing Project Management budget. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity:	Task 10.2 – Forbestown Diversion Dam Reach SNTEMP Water Temperature Model		
Lead:	Scott Wilcox – Stillwater Sciences		
Date:	May 18, 2005		
On Schedule:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Term: December 31, 2005
On Budget:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Budget: \$78,000

Status: Based on the results of 2004 water temperature monitoring, Forbestown Diversion Dam Reach appears to be the only reach that may have a water temperature issue (possibly warmer than agencies would like it to be), and is the reach NOAA Fisheries is focusing on regarding anadromous fish. To address this issue, this subtask includes development of a water temperature model for this reach using the USFWS' SNTEMP model.

SNTEMP Model development was initiated during this period.

Work scheduled for the next period includes data compilation for the model, and installation of additional meteorological instrumentation at Forbestown Powerhouse for development of the model.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$0 of the subtask budget of \$78,000 (0%) has been expended. Stillwater charges for the work during this period will appear on the next invoice. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.



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Activity: Task 10.3 – SFFR/Lost Creek, Forbestown and Slate Creek Diversion Dam Reaches
Foothill Yellow-legged Frog Analysis of Flow/Habitat Relationships

Lead: Christine Champe - Stillwater Sciences

Date: May 18, 2005

On Schedule: Yes

No

Term: December 31, 2005

On Budget: Yes

No

Budget: \$49,300

Status: The 2004 Amphibians and Aquatic Reptiles Study Plan stated SFWPA would conduct test flow studies in reaches where special-status amphibians (mountain yellow-legged frog, foothill yellow-legged frog and California red-legged frog) were found. The purpose of this test flow study would be to determine a relationship between amphibian habitat and flow. Mountain yellow-legged frogs and California red-legged frogs were not found, but foothill yellow-legged frogs (FYLF) were found in three of six Project Reaches: SFFR/Lost Creek Reach; Forbestown Diversion Dam Reach; and Slate Creek Diversion Dam Reach. This subtask includes consulting with PNF, USFWS, SWRCB and CDFG to evaluate the potential affects of the Project on FYLF habitat in these reaches, and developing information on flow/habitat relationships.

Work completed included sites that were visited every week for the last eight weeks. FYLF surveys were completed during only four of the eight weeks due to the delayed spring rains and high flows. Breeding has been delayed this year due to the unusually late rains and high flows, and surveys will need to be extended into the summer.

Work scheduled for the next period includes continued FYLF field surveys.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$0 of the subtask budget of \$49,300 (0%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Due to the extended breeding season created by unusually late rains and high flows, the surveys will need to be extended into the summer, and additional funds may be needed to complete the survey. An estimate of additional funding needs will be made, if necessary, at the end of June.

Activity: Task 10.4 – 2005 Northern Goshawk Survey

Lead: Christine Champe - Stillwater Sciences

Date: May 18, 2005

On Schedule: Yes

No

Term: December 31, 2005

On Budget: Yes

No

Budget: \$66,200

Status: PNF and USFWS have requested SFWPA complete the 2-year survey protocol for northern goshawk in 2005. This subtask basically repeats the 2004 Northern Goshawk Surveys in 2005.

Work completed in this period includes initiation of the summer field studies.

Work scheduled for the next period continuation of the 2005 field studies.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$0 of the subtask budget of \$66,200 (0%) has been expended. Please note that the work described above is through the current period; however,



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subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 10.5 – 2005 California Spotted Owl Survey
Lead: Christine Champe – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$60,300
Status: PNF and USFWS have requested SFWPA complete the 2-year survey protocol for California spotted owl in 2005. This subtask basically repeats the 2004 California Spotted Owl Surveys in 2005.

Work completed in this period includes initiation of 2005 field surveys.

Work scheduled for the next period includes continuation of 2005 field surveys.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$0 of the subtask budget of \$60,300 (0%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

Activity: Task 10.6 – 2005 Lower Slate Creek and Lower Forbestown Diversion Dam Reaches Fish Population Sampling
Lead: Scott Wilcox – Stillwater Science
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$19,500
Status: As requested by CDFG, PNF and the State Water Board, 2 fish population study sites are included in the study plan that are not part of the ongoing Fish Population Monitoring Program (FPMP). The two sites (above Ponderosa Reservoir and in lower Slate Creek near Racetrack Point) were sampled in 2004 as part of the 2004 Fish Population Study and will be sampled again in 2005 under this subtask.

Work on this task has not yet been initiated.

Work scheduled for the next period includes planning for 2005 field surveys.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$0 of the subtask budget of \$19,500 (0%) has been expended.

Activity: Task 10.7 – 2005 Little Grass Valley and Sly Creek Reservoir Recreation Areas Day Use and Boat Ramp Facilities Use Estimates
Lead: Matt Paquette
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$45,000
Status: The 2004 Recreation Use and Inventory Study assumed that data were available from the concessionaire



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regarding use of day use facilities at Little Grass valley and Sly Creek reservoir recreation areas. The information was not available, and will be collected under this subtask in 2005.

Day use surveys and use counts were conducted on Saturday and Sunday of Memorial Day Weekend.

Work scheduled for the next period includes four days of surveys. The surveys will occur on a Saturday, Sunday, Monday and Wednesday. The exact dates are to be determined once the Little Grass Valley Recreation Area is open for the season. Thus, all the day use facilities would be included rather than just the Sly Creek Recreation Area facilities.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$1,570.80 of the subtask budget of \$45,000 (3%) has been expended.

Activity: Task 10.8 – Whitewater Boating Test Flow Consultation
Lead: Kelly Bricker
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$20,000

Status: The 2004 Recreation Study Plan stated SFWPA would conduct Whitewater Boating Test Flow studies in reaches where significant opportunity and potential demand for whitewater boating was found. At an April 14, 2005, meeting, the PNF, USFWS and State Water Board requested these test flow studies in Little Grass Valley, South Fork Diversion Dam, and Forbestown Diversion Dam reaches in fall 2005 during scheduled outages and when SFWPA routinely releases higher flows from Little Grass Valley Dam. Additionally, PNF and the State Water Board requested a reduced effort study in the Slate Creek Diversion Dam Reach in spring 2005. This subtask includes forming a whitewater boating group to discuss and plan these studies.

This subtask does not include performing the studies. As discussed with the Board on April 26, 2005, once the scope of the studies is developed, DTA will discuss budgeting with the SFWPA Board.

Work completed in this period includes development of a draft whitewater boating test flow study plan and questionnaire for discussion at the June 17, 2005 Whitewater Boating Workgroup Meeting.

Work scheduled for the next period includes the June 17, 2005, Whitewater Boating Workgroup Meeting. The purpose of the June 17 meeting is to plan for potential whitewater boating test flows studies in three South Fork Feather River Project Reaches in fall 2005.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$2,425.86 of the subtask budget of \$20,000 (12%) has been expended.

Activity: Task 10.9 – Anadromous Fish Issues
Lead: Scott Wilcox – Stillwater Sciences
Date: May 18, 2005
On Schedule: Yes No **Term:** December 31, 2005
On Budget: Yes No **Budget:** \$24,000



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Status: At the request of NOAA Fisheries, on March 24, 2005, we coordinated with NOAA Fisheries a helicopter flyover of the SFFR from Ponderosa Reservoir to above South Fork Diversion Dam to view a number of potential barriers to upstream fish migration. NOAA Fisheries is reviewing their notes and plan to consult further with us. This could lead to an additional study. The scope and cost of additional efforts are not known at this time. This subtask covers costs incurred to date as well as currently anticipated consultation in 2005, including several meetings with NOAA Fisheries, one site visit by field personnel to make migration barrier measurements, and phone consultation with resource agencies.

Work completed in this period includes ongoing consultation with NOAA Fisheries, and a second flyover and video of a barrier area on May 20 following a storm event.

The work is on schedule. As of DTA's June 17, 2005 invoice to SFWPA, a total of \$2,007.53 of the subtask budget of \$24,000 (8%) has been expended. Please note that the work described above is through the current period; however, subconsultant's billings are about a month behind due to invoice processing lag time.

A total of \$3,352.16 in charges, which were previously applied to the Fish Population subtask (9.21) will be moved to the Anadromous Fish subtask in an upcoming invoice.

SFWPA Relicensing Anticipated Field Schedule for July 2005

<i>Resource Area</i>	<i>Study</i>	<i>Anticipated Field Schedule for Month</i>
Water Temperature	Water Temperature	End June: thermograph downloads and 7 new installations at current gaging sites. Field work estimated at 7-8 days (June 20-28). Additional temperature and stream level monitors installation trip requiring 3-4 days.
Water Quality	Water Chemistry	None scheduled in July.
	Mercury	None scheduled in July.
Aquatics	Aquatic Bioassessment	None scheduled in July.
	Habitat Mapping	None scheduled in July.
	Fish Intake Entrainment Study	No field studies required.
	Fish Population Surveys	None scheduled in July.



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<i>Resource Area</i>	<i>Study</i>	<i>Anticipated Field Schedule for Month</i>
	Instream Flow/PHABSIM	Potential one day survey in June/July: SFFR Forbestown Diversion Dam Reach.
Botany	Vegetation Mapping	No field studies required.
	Riparian Vegetation	None scheduled in July.
	Special Status Plants	None scheduled in July.
	Wetlands	None scheduled in July.
Wildlife	Amphibians/Aquatic Reptiles	FYLF Flow and Habitat Study, monitoring of breeding sites: Two person crew, two days of field work every week continue through late June. Four sites in Forbestown Diversion Dam Reach, upper end and lower end, SFFR/Lost Creek Reach, and Slate Creek Diversion Dam Reach.
	Miners Ranch Conduit	Miners Ranch: Continue through June 15, 2005, entailing approximately 5-6 field days, checking and maintaining track plates and cameras.
	Bald Eagle	None scheduled in July.
	California Spotted Owl	Tentatively: 3 (6-9 days total) visits between March and September.
	Northern Goshawk	Tentatively : June 1, 2005 through August 15, 2005 (+/-25 days total).
	Valley Elderberry Longhorn Beetle	None scheduled in July.
Geology	Sediment Transport	None scheduled for July.
	Shoreline Erosion	None scheduled in July.
	Large Woody Debris	None scheduled for July.
Recreation	Recreation Use and Impact	
	Whitewater Boating	
Aesthetics & Land Use	Aesthetics	
	Land Use and Management	
Cultural	Archaeological	



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<i>Resource Area</i>	<i>Study</i>	<i>Anticipated Field Schedule for Month</i>
	Traditional Cultural and Religious Sites	

Boat needs:

- There are no expected boat needs for July fieldwork.

Flow alteration needs:

The Aquatic field studies will require some powerhouse outflow management in July:

- **July**
 - Water temperature monitoring will require the Woodleaf PH to be idle while the crew paddles upstream.
 - Instream flow surveys will require flows to be maintained at 75 cfs below Forbestown Diversion Dam for 8-10 hours.
 - Retrieving the thermograph located in the middle of the LGV channel would require 20cfs or less in the reach. However, retrieval of that thermograph is not deemed imperative for July field effort.

Other Needs:

- **July**
 - Amphibian FYLF monitoring will require access through Forbestown PH to the SFFR upstream of the PH once a week (15-20 minutes).
 - Water temperature monitoring will require access through Forbestown PH to the SFFR upstream of the PH
 - Water temperature monitoring crew will also require access into the Forbestown and Woodleaf PH yards to download air temperature monitoring devices located in the PH yards.