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| Project Name | Department of Water Resources (DWR)- FERC Project No. 2426, South SWP (SSWP) Hydropower Relicensing |
| Study | Botanical Study- Proper Functioning Condition (PFC) Surveys (WEEK 1) |
| Crew Member Name (1) | Rocky Brown (RB), Marlyng Gama (MG), Lauren Fah (LF) |
| Crew Member Name (2) | Cynthia Jones (CJ), Morgan Kennedy (MK) (Training + Recon) |
| Crew Member Name (3) | - |

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| Survey Date(s) | Survey Location | Survey Completion Notes |
| 5/1/2017 | LAPWD, Elderberry Forebay | Completed LAWPD safety training; conducted PFC field training   * ER-1: ER-LE-1A; ER-LE-1B |
| 5/2/2017 | Quail Lake, Recon- Site Access (all sites) | * QR-1: QR-1A * QR-2 * QR-3: QR-LE-3A * PV-1: PV-LO-1 (Gorman Creek) |
| 5/3/2017 | Quail Lake | * QR-4 * QR-5: QR-LE-5A * QR-6 |
| 5/4/2017 | Elderberry Forebay, Castaic Creek | * CCR-2 * CCR-3: CCR-LE-3A * CCR-4: CCR-LO-4A; CCR-LO-4B * CCR-5 |
| 5/5/2017 | Pyramid Lake (Liebre Gulch), Gorman Creek | * LGR-2: LGR-LE-2A * LGR-3: LGR-LE-3A * GCR-1: GCR-LO-1A; GCR-LO-1B |

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| Summary of Biological Findings |
| The reservoirs contained more lentic than lotic systems for Quail Lake and Elderberry Forebay. Only lotic systems observed- Castaic Creek north of Elderberry Forebay, a reach flows into the portion of Pyramid Lake east of I-5, and at the southern end of the Lower Quail Canal. Lentic systems were compiled along shoreline into features of similar vegetation composition, hydrology, and geomorphic characteristics. Lentic features were primarily observed around most of Quail Lake, alternating with regular shoreline and some areas of rip-rap, and around much of section of Pyramid Lake east of I-5. All lentic systems observed were in moderate functioning condition, with some variability due to NNIP encroachment. Most areas were a composite of both wetland and riparian plants species, however, Crew 1 did not observe extensive riparian areas that had an abundant amount of willow or other overstory species that are specific to some wildlife species habitat needs. Primarily, waterlines are wetlands had low rocky gradients. Moving into the uplands, riparian species dominant, and hydrology is absent. The one Lotic system observed during week 1 surveys was channelized and receiving water output from Quail Lake. All PFC metrics were (fairly) normal and indicative of a functioning system for the small reach that I assessed. The reach flowing into Pyramid Lake had to be assessed from afar due to access limitations\* (RB + MK). |
| Study and Protocol Comments |
| PFC field protocols were QA/QC’ed with the Devil Canyon team for consistency and replicability (MK). |
| Additional Comments |
| \* Apart from the lower portion mentioned above, Lower Quail Canal is channelized and does not contain any riparian habitat; having conducted reconnaissance on much of the Castaic T-line, I don’t expect that we will find any PFC-able features along it, and, since the Warne T-line occurs in a similar geographic environment, I don’t think we’ll find any there either (RB). |