

This report provides a summary of environmental monitoring and compliance activities conducted by Burns and McDonnell (BMcD) staff and BMcD subconsultants for the San Diego Gas & Electric (SDG&E) Sunrise Powerlink Project during the above weekly time period.

### **Training**

- SWEAP training continued for new Project personnel every Tuesday and Thursday. Additional trainings were provided as requested.
- A Barefoot Banded Gecko Training was held on Monday, June 6, 2011, to fulfill mitigation with California Department of Fish and Game 2081 Incidental Take Permit.
- A Wire Stringing Operations and Safety Awareness Training was held on Tuesday, June 7, 2011.
- The State of California Air Resources Board held a Visual Emissions Evaluator (VEE) Certification class from Tuesday, June 7, 2011, to Thursday, June 9, 2011.

### **Preconstruction**

- Avian biologists surveyed for nesting birds prior to work commencing in an area with guidance and concurrence from the California Department of Fish and Game (CDFG), United States Fish and Wildlife Service (USFWS), and California Public Utilities Commission (CPUC). For any active nests found, a buffer was established and no construction activities were permitted within the buffer area without first consulting with agencies. Active nests were mapped and monitored for success or failure and updated on the nest monitoring log.
- QA/QC was performed for footing staking at EP63, EP110-2, EP111-4, EP116-1, EP130-1, EP151, EP152-1, EP188-1, EP189-3, EP194-3, EP195-2, EP196-2, EP221A, EP221-2, EP224-1, EP226-1, EP227, EP229-1, EP231A, EP231-1, EP232-1, EP233-1, EP234-1, EP236-1, EP237-1, EP238-1, EP246, EP249-1, EP259B, EP261-2, EP264-4, and EP266-2. Pullsite/Access road staking at EP301. Set reference points for culvert for wall at Loritz driveway. Real time kinematic (RTK) check of cut/fill stakes for wall off Alpine Boulevard near Star Valley Road.
- Civil survey staking occurred at EP210.
- The ESA Team conducted the following activities during this reporting period:
  - Responded to a report that the SWPL ESA from EP324 to EP326 was being damaged by the high winds currently prevailing in this area. The repairs to the signage were performed.
  - Installed a T-post, rope, and wood lath ESA along both sides of the access road leading from Old Highway 80 to EP250.
  - Installed 2 ESAs between the south entrance to EP 237W pullsite (PS) and the SWPL access road and then installed the ESA along this short portion of the SWPL access road (between EP237W PS and access road EP324-1-E).
  - Repaired installed ESAs and project signage from EP331 to EP349 and installed signs at segregated piles of desert pavement between these same structures.

### **Construction**

- Monitors were present during construction activities to ensure compliance with mitigation measures as identified in the Final EIR/EIS Mitigation Monitoring, Compliance, and Reporting Program. Archaeologists, Paleontologists, and Native American Monitors were present at sites where required as identified prior to construction activity and as approved in the NTPs.

- 10 Archeological Monitors were present
  - 59 Biological Monitors were present
  - 10 Native American Monitors were present
  - 4 Paleontological Monitors were present
  - 8 SWPPP Monitors were present
  - 2 UXO Monitors were present
- Project staff carpooled to site reviews, kick-off tailgates, and off-site meetings. Construction and traffic control crews were observed carpooling from yards to work areas.
  - Deterrents were utilized to discourage bird nest building activities throughout the Project. Deterrents are determined depending upon the location and type of possible nesting areas and may include metallic flagging, compact discs, plastic owls, and the presence of biological monitors.

The table below demonstrates the construction progress to date:

<b>OVERHEAD</b>		
Agency	Foundations Completed	Towers Erected
Non-Federal	38 of 168	8 of 168
Bureau of Land Management	22 of 180	0 of 180
US Forest Service	0 of 76	0 of 76
<b>UNDERGROUND</b>		
Agency	Vaults Installed	Trenches Excavated & Backfilled
Non-Federal	34 of 40	12 of 42
<b>SUBSTATIONS</b>		
1 of 7		

Overhead

- Link 1
  - Two pullsite vegetation review teams conducted site assessments at the following pullsites: EP291-1, EP306, EP313, EP322, EP330, EP338, EP343, EP349, and EP355.
  - Ground resistance testing was conducted at EP214, EP215, EP217, EP218, EP219, EP220-1, and EP243.
  - Grading occurred at the following tower sites and associated spur roads:
    - EP220-1, EP319, EP320, EP327, EP328, EP329, EP330, EP331, EP332, EP333, EP334, EP336, EP337, EP338, and EP339.
  - Grading of the existing access road occurred on:
    - EP318-1, EP320-1, EP331, EP336 and EP340, SWPL ARD EP342 EP363.
  - Micropile boring at EP296.
  - Micropile drilling and grouting at EP223-1.
  - Conventional drilling at EP314, EP316, EP335, EP340, EP357, and EP361.

- Various foundation work (capping, curing, cage installation, etc.) at EP316-2, EP335, EP340, EP361.
- Setting and prep for foundations at EP313 and EP363.
- Concrete pouring at EP316, EP335, EP340, EP356, and EP361.
- Concrete stripping and cleanup at EP316-2, EP318-1, EP319, EP320-1, EP340, EP356, EP359, and EP360.
- Tower assembly at EP219-1, EP244, EP318, EP320, EP321, EP322, EP327, EP331, EP330, EP332, EP333, EP336, EP337, EP338, EP339, EP341, EP342, EP343, and EP344.
- One guard structure review team conducted site analyses at guard structure sites adjacent to EP43-1 and CP25-2.
- Final grade of pad site to original contour at EP220.
- Insulator installation at EP244.
- Raven perching deterrents were installed on EP344.
- PAR QC inspections were performed at EP208, EP209, and EP210.
- BMP maintenance and grout equipment removal at EP223-1.
- BMP crew performed maintenance at the following tower sites:
  - EP220-1, EP227, EP232-1, EP253-2, and EP317TSAP.
- BMP crew performed maintenance on the following access roads:
  - EP295, EP297, EP298, EP299, and between EP290 and EP295, EP313 to EP316, and EP331 and EP341.
- Paleontological fossils were found in the vicinity of EP316. Samples were collected and the appropriate agencies were notified in accordance with the approved Paleontological Monitoring and Discovery Treatment Plan.
- Flat-tailed horned lizard (FTHL) trainings were provided to crews prior to construction per mitigation measure B-7b and in accordance with the FTHL Rangewide Management Strategy.
- Flat-tailed horned lizard (FTHL) monitors and Visible Emission Evaluators (VEEs) were onsite as required.
- Telemagica 2011 was held in Jacumba on June 10, 11, and 12. SDG&E coordinated all activities to avoid the festival area.
- On the mornings of June 7 and June 10, two separate incidents occurred in the Imperial Valley involving SDG&E's "Sun Bird" S-64 air crane helicopter, which is being used to construct the Sunrise Powerlink transmission line project. The first incident involved a section of a transmission tower that was being carried by the Sun Bird. It fell approximately 150 feet to the ground near SDG&E's Plaster City Construction Yard as a result of uncommanded release of the hooks that were lifting it. The second incident on June 10 also involved three of the four hooks of the helicopter releasing uncommanded. The helicopter and structure were quickly lowered to the ground. The structure was nearly upright when the last hook released and the tower section fell on its side. There were no injuries during either incident and, besides the tower sections, no property was damaged.
- SDG&E grounded the air crane and conducted an investigation of the first incident with Erickson, the manufacturer of SDG&E's air crane. During troubleshooting, a problem was found and repaired and test flights conducted prior to resuming tower lifts for construction. After the second incident, the FAA grounded the "Sun Bird" and an investigation was launched to determine the cause of that incident and make sure it doesn't happen again. The helicopter was flown back to Erickson's helicopter manufacturing facility in Oregon for the investigation. SDG&E immediately reported the incidents to the California Public Utilities Commission (CPUC) and the Federal Aviation Administration (FAA), and is working with the appropriate agencies, including the Bureau of Land Management (BLM) and the U.S. Forest Service, to investigate the

cause of the incidents. The Sun Bird helicopter will not participate in any construction activities pending the results of the investigation.

- Link 2
  - Micropile drilling at EP85-2.
  - Dust generated by helicopter activities at EP85-2 was controlled with water.
  - One pullsite and access road review team conducted site analyses near EP83.
  - Conducted field reviews with USFS at EP113-5 and EP130-1.
  - BMPs were maintained at:
    - EP79, EP84, EP86-1, and EP87-1.
  - BMPs were maintained on access roads associated with:
    - EP89-1, EP90-1, EP91, EP92, and EP93.
- Link 5
  - Micropile site preparation at CP42-1.
  - Mobilization and conventional drilling at CP18.
  - Site review for conventional drilling at CP19.
  - BMP crew conducted maintenance:
    - between CP17-1 and CP22, at CP25, at CP26, and between CP40 and CP42.
  - BMPs were maintained on access roads associated with:
    - CP19-1, CP20, CP21, CP22-1, CP25-2, CP26, CP40-2, CP41-2, and CP42-1.
- 69kV
  - UPC crew competed reframe work on Location #37.
  - UPC crew removed the old wood cable poles from Rue Biarritz, Location #29 and Location #28. Both poles were cut off below ground level and the holes backfilled.
  - Termination and splice work at the Rue Biarritz underground was completed.
  - Jumpers were installed between the potheads and transmission line at both cable poles. CAM crew was onsite to clean up all construction materials. The Rue Biarritz Underground section was completed except for the restoration.
  - The Scripps Underground section was completed.
  - BMP crew completed maintenance on Location #26 and Location #85. BMP maintenance was completed on Locations #1 through #25 after the Miramar fire range was opened to construction.
  - UPC crew conducted work at Location #12 and Location #37.
  - UPC crew completed installing the jumpers on cable pole at Ironwood and cable pole at Rue Biarritz of TL6916.
  - PAR crew finished installing the potheads on one of the cable poles at Rue Biarritz.
  - PAR underground crew worked on completing the splice and termination at manhole U108708.
  - PAR and UPC crews completed the installation of potheads and jumpers at Rue Biarritz so that TL6916 is ready to energize on schedule.
  - UPC crew worked on reframing Locations #21 thru #25.
  - UPC crew worked on installing jumpers on Location #48 of TL6916.
  - UPC crew worked on clipping and sagging the poles within TL639 (Locations #4 thru #12).

### Suncrest Substation

- Link 3
  - Rough grading on the substation pad and along Bell Bluff Truck Trail continued.
  - Installation of permanent drainage system on the pad continued.
  - Hauling rock and soil to the central and southern portions of the pad occurred.
  - Grading in the southern portion of the pad.
  - Drilling and blasting occurred in several locations on the pad.

## Underground

- Link 4
  - Potholing occurred at V7R to V8R, V14R to V16R, and V18R to V19R.
  - Transitions (Ins and Outs) occurred at V2R, V4R, V5R, and V18R.
  - Trenching occurred from V4R to V6R, V4L to V5L, V9L to V10L, V13R to V14R, and at V18R.
  - Pre-drilling and drilling occurred at V5R, V10L, and from V6R to V7R and V18R to V19R.
  - Saw cutting occurred at V7R, V10L, and from V11R to V13R, V12R to V14R, and V17R to Viejas Bridge.
  - Encasement pouring occurred from V4R to V6R.
  - Pre-racking manholes for ABB (also cleaning for ABB) at V16L.
  - Proofing occurred from V7L to V8L, V11L to V12L, and at the Alpine Creek Bore Site.
  - Milling and setting plates occurred at V2R, V13R, V17R, V18R, and from V4R to V6R and V9L to V10L.
  - Paving (including paving prep) occurred from V4L to V7L and V11L to V12L, and at V10L, V13R, and V14R.
  - Vault setting occurred at V10L and V13R.
  - Bridge attachment work occurred at the Viejas Creek Bridge.
  - Cable pulling and testing occurred from V2L to V4L.
  - Jointing (splicing) occurred at V17L.
  - Grading occurred at the Loritz Property and V19R.
  - Acoustic blankets were originally delivered and installed the week of 5/29/11 but because of problems were re-installed on 6/7/11.
  - BMP maintenance occurred at the Bauer Bridge.
  - Work on the jacking and receiving pits continued at the Highway 8 Bore Site.
  - Boring continued at the Alpine Creek Bore Site.

## Substation Upgrades

- San Luis Rey
  - Roel Construction excavated 230 kV cable trench on north side of bank 70 transformer outside the 100-foot kestrel buffer.
  - SDG&E continued working on 69 kV bus upgrades and disconnect installation in bays 3 and 4.
- Encina
  - SDG&E worked on circuit breakers and disconnects in bays 1 through 7.
  - Roel worked on excavating around pads for wire pull boxes between bays 8 and 11.
  - Roel also trenched between wire pull boxes to install conduit.
  - Chula Vista Electric was onsite performing the wiring, conduit installation, and grounding under Roel Construction.
  - SDG&E crew erected one tower in the southwest portion of the switchyard
- Scripps
  - SDG&E crew worked on installing jumpers near the newly installed 69 kV disconnects in southern portion of the yard.
- Sycamore
  - American Transformer Systems was working on testing and configuring the newly constructed transformer.
  - Roel Construction was onsite working on below grade in both bays 21 and 26. Wire rebar was formed and placed in pads before concrete was poured. Excess dirt was hauled offsite after the spoil was tested.

- Imperial Valley (IV)
  - SDG&E was working on control house wiring in 500kV portion of yard and tower assembly.

### Construction Yards

- Alpine Construction Yard – Materials staging, steel deliveries, and weed clearing.
- Bartlett-Hauser Yard – Helicopter operations, tower assembly, and QC.
- Dunaway Yard – Tower assembly and QC.
- Hartung Yard – Tower assembly and QC.
- Helix Yard – Mowing/Weed clearing, tower assembly, and QC.
- IV Sub Yard – Construction of the yard continued.
- Jacumba Valley Ranch (JVR) Yard – Helicopter operations, tower assembly, and QC.
- Kreutzkamp Yard – Tower assembly and QC.
- Plaster City Yard – Helicopter operations, road maintenance, rumble plate maintenance, tower assembly, and QC.
- Rough Acres Yard – Helicopter operations, materials staging, steel deliveries, and weed clearing.
- S2 Yard – PAR mobilization, gate installation and entry work, rock and rumble plate maintenance, materials staging, and steel deliveries.
- SWAT Yard – No work occurred at this location during this reporting period.
- Sycamore Yard – No work occurred at this location during this reporting period.
- Thomas Yard – No work occurred at this location during this reporting period.
- Wilson Yard – Tower assembly and QC.

### **Wildlife Reporting**

The following listed or Species of Special Concern were found dead in Project construction limits during this reporting period:

- Flat-tailed horned lizard (*Phrynosoma mcalli*) – Two (2) dead flat-tailed horned lizards were found on the SWPL access road between EP324 and EP326 by the ESA Team.
- Coast patch-nosed snake (*Salvadora hexalepis virgultea*) – One (1) dead coast patch-nosed snake was found dead along the access road to Suncrest Substation.
- Red-diamond rattlesnake (*Crotalus ruber*) – One (1) dead red-diamond rattlesnake was run over on the access road to Pole #171651 on the 69kV Line.

The following listed or Species of Special Concern were relocated during construction activities this reporting period:

- Flat-tailed horned lizard (*Phrynosoma mcalli*) – One (1) flat-tailed horned lizard was relocated from the SWPL access road to an open sandy habitat approximately 400 feet north of the access road.
- Two-striped garter snake (*Thamnophis hammondi*) – Sixteen (16) two-striped garter snakes were relocated from the Project area; ten (10) were relocated from Kreutzkamp Yard, two (2) were relocated from JVR, and four (4) were relocated from the Bauer Bridge area into nearby vegetation.
- Rosy boa (*Lichanura trivirgata*) – One (1) rosy boa found on El Monte Road in Alpine was relocated.
- Southern Pacific Rattlesnake (*Crotalus oreganus helleri*) – One (1) relocated out of the work area at Bauer Bridge.

The following non-listed (not Species of Special Concern) were relocated during construction activities this reporting period:

- Dunaway Road Yard – One zebra-tailed lizard was relocated.
- Kreutzkamp Yard – 17 western toadlets, 2 pacific chorus frogs, 1 western fence lizard, 2 tiger whiptail lizards, 2 meadow voles, and 1 gopher snake were relocated.
- Plaster City Yard – One injured common raven was relocated.
- Rough Acres Yard – One coast horned lizard was relocated.

### **Spills/Hazardous Waste**

- 69 kV
  - 6/6/2011 – Approximately 2 ounces of vehicle oil was released from a CAM Utility Truck (PAR Contractor) at a manhole near Scripps Ranch Blvd. The oil was immediately cleaned up. Reporting was made to the City of San Diego, Storm Water Reporting.
  - 6/7/2011 – A release of .5 (half) gallon of sludge and water occurred at a manhole near Rue Biarritz. The release resulted from water truck operator error. The release was immediately contained and cleaned up. Reporting was made to the City of San Diego, Storm Water Reporting.

### **Non-Compliances**

- No non-compliances were issued during this reporting period.

### **Variances and TEWS**

- No variiances or TEWS were approved during this reporting period.

### **Weather**

During this period, a rain event occurred on Monday, June 6. The following cumulative precipitation totals were recorded:

- Alpine HQ and Yard, 0.1 of an inch
- Link 3, Suncrest Substation, 0.1 of an inch
- Link 5, Wilson Yard, 0.1 of an inch

BMPs were installed or maintained as needed throughout Project areas.





Kestrel chick rescued at Sycamore Yard. *Photo courtesy of Jim Gibson.*



Acoustic blankets at the Bauer Bridge looking to the northeast. *Photo courtesy of Jeff Smith.*





Rough Acres Yard with a view of the recent fire in Mexico. *Photo courtesy of Don Spires.*