

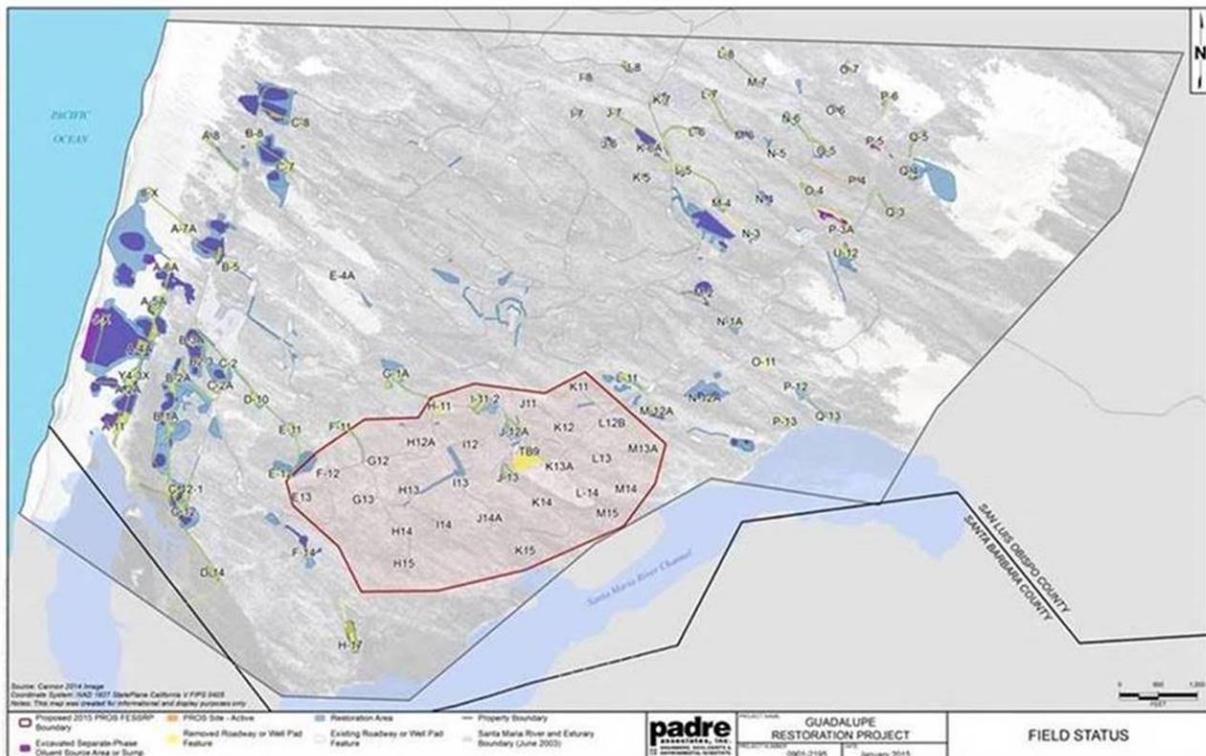
County of San Luis Obispo Onsite Environmental Coordinator Guadalupe Update 4-14-2016

Construction/remediation activities continue at the Chevron Guadalupe Oil Field Remediation Site (Field) this week. The San Luis Obispo County Onsite Environmental Coordinator (OEC) continues to be present at the Field on a daily basis.

The following description of the weekly activities at the Field will give any of the interested parties an opportunity to identify additional requests in terms of special monitoring or approval requirements for any particular tasks on the Field. Significant issues and important review schedules are underlined.

- Construction contractor is now working four 10-hour days per week. Entry into the site remains at 7 am.

To help orientate the placement of remediation activities, Figure 1 shows the Field and the location of all active project sites (2015 PROS Work Plan Area FESSRP 1-4) area is bordered in red, blue distinguishes finished remediation sites).



Remediation Sites including 2015 PROS Sites (outlined in red).

Here are the current activities:

Remediation Activities:

B9/TB5 Sump Removal

- As described in the approved work plan, Chevron has removed a portion of a road extending through native habitat including the previously remediated Phyto-remediation area. While removing this road material, sump material was observed that extended beyond the work plan-approved boundary. Chevron has collected additional data on this sump material in terms of characterization and has submitted to all agencies a Letter Report (dated 9-3-2015) which presents additional analysis of this material present at the B9 Area and provides a recommendation to leave this material in place.

2015 PROS Pad, Road, and Oil Spray Removal/Treatment Activities

- Chevron submitted the PROS Program Comprehensive Document for agency review on Jan 4, 2016.
- Chevron continues PROS activities at the I12, I13, J11, J12, J14, K11 and K12 Pad Site Areas. Chevron has completed activities at the C2A, E13, F12, G12, G13, H11, H12, H13, H14, H15, I11, I14 K14, K15, L12, L13, M13, M14 and M15 Pad Site Areas. PROS activities include oil spray removal and treatment, pad treatment, sump removal, pipeline removal, road treatment, asbestos removal, and excavation of contaminated materials. Typically, the PROS activities follow the following process:
 1. vegetation is removed from the site and stockpiled for later use;
 2. all of the sump material and diluent affected material is either completely removed or excavated to a depth of approximately 4 feet;
 3. pads and roads are treated (red rock or asphalt surfaces are broken up with excavator and claw), pipelines are removed;
 4. samples are collected at excavated and treated areas for analysis;
 5. results are provided to the OEC for review and discussion;
 6. after data review, the OEC provides Chevron approval for backfill of treated areas and sump removal, and the RWQCB provides approval for excavated areas;
 7. excavated areas are backfilled with clean overburden, roads and pads are covered with approximately six inches of clean sand from the Q4 Borrow Site;
 8. vegetation is placed over site and BMPs (fences and straw waddles) are installed.
 9. These sites must meet established vegetation success criteria as described in the approved PROS Work Plan/Program.
- The Chevron/Padre team has submitted the final excavation/treatment sample results for the E13, F12, G12 and H15 work areas. These sites have been excavated and/or treated as described and defined in their own specific work plan and FSSRP, and have met the cleanup standards as described in the approved PROS Work Plan approach. The sample data from any excavated sites were reviewed by both the OEC and RWQCB. The sample data from the treated areas were reviewed by the OEC and were approved for backfill and/or final installation of BMPs.
- TPH-affected material/odor, including diluent-affected material, has been observed/detected at several of the pad sites during the Test Phase. When non-asphaltic TPH-affected material is discovered as part of the treatment activities, the area is assessed to determine the next course of action. All of the exposed diluent-affected material (that has been observed/detected as part of any of the treatment activities) has resulted in Chevron contractors returning to treatment sites and removing the diluent-affected material consistent with PROS Test Pilot Work Plan.
- Chevron/Padre has provided the OEC the third PROs Sites work plans and FSSRPs for initial review and approval.



Overview of the J12 Valley: Approximately six different PROs Sites are visible in different phases of remediation and restoration. From left to right: J11 Pad, L12 Pad, K12 Pad, L13 Pad, J12 Valley and the J12A Pad.

I12 Surface Stain Excavation

- The Chevron/Padre team has begun excavating the I12 Diluent Surface stain.
- The 26-inch pipeline in the project area was cut and removed from the area.
- Two access roads were graded and installed using plastic inter-locking mats (see photo below).
- Entact continues to excavate diluent-contaminated soil from the site. Diluent-contaminated material is excavated to a depth of approximately 7-8 feet and hauled to the M3 Stockpile site.
- The excavation area will be sampled and then, with RWQCB approval, backfilled.



Access Road to the I12 Excavation Site. Entact has begun using plastic inter-locking mats to access more remote sites. Mats have, in general, reduced the total amount of required grading and reduced disturbances to subsurface roots which will likely improve restoration efforts.



I12 Excavation. Two excavators have been used to excavate diluent-contaminated soil from this site. Note the use of water being sprayed on contaminated material which reduces dirty material being blown outside the controlled work area in windy conditions.

Hauling Activities

- RTS continues hauling activities to the SMLF. No trucks leave the site before 8 am.
- Chevron reports that as of April 7, 2016, a total of 67,173 loads have been hauled to the Santa Maria Landfill, totaling 1,524,580 tons or 1,081,262 c.y. of contaminated material.
- The original SEIR hauling activities were completed on 9/18/2012. At that time, a total of 51,962 SEIR related loads were hauled to the Santa Maria Landfill totaling 1,186,770.77 tons or 859,978.82 cy of contaminated materials.
- The SEIR Addendum hauling activities commenced on 9/24/2012. To date, a total of 15,211 Addendum related loads have been hauled to the Santa Maria Landfill, totaling 337,809 tons or 239,581 cy of contaminated materials.
- The OEC continues to receive and review weekly travel records for the 6 to 8 haul trucks driving between the Guadalupe Site and the SMLF. All trucks leaving the site continue to be recorded being observed traveling along the established approved travel route.

Perimeter Fence

- There were no cows observed on the Field in the last month.

Other Field Activities:

- Padre staff continues to collect monitoring well samples throughout the Field according to their quarterly schedule.
- In accordance with CAO 98-38, amended November 6, 1998, active and passive free-product recovery systems continue to operate with periods of limited interruption at the Compressor Plant (CP), Diluent Tanks (DT), and Tank Battery 9 (TB9) Areas. As required, Padre staff provides notification to RWQCB staff during periods of planned shut-down for system maintenance and/or evaluation. System operation is dependent on recovery pump maintenance activities performed daily by O&M staff, which ensures the pumps are properly functioning.
- Padre reports that as of the 2nd Quarter 2015, the Recovery System has resulted in recovering 30,741 barrels or roughly 1,291,000 gallons of diluent.
- Chevron wildlife monitors conduct daily checks of the access roads prior to anyone entering the site.
- The hydrocarbon release at the 5X Beach Site continues to be monitored (visual and odor surveys 3x/week by Padre Staff) near the old 5X Excavation Site. There was no odor detected and there was no visible evidence of release. Chevron reports that beach surveys will continue three times per week as detailed in the 5X Beach Monitoring Plan.

Sensitive Species Issues:

- Padre biologists continue to conduct western snowy plover nesting season surveys of the beach area as required under the County Conditions of Approval and Biological Opinion. The WSPL monitor reports observing the first two nests on the beach.
- Chevron biologists conduct the weekly (per the wet season schedule) California red-legged frog survey of the TB8 Retention Basins.
- Feral pig depredation efforts continue onsite as directed and permitted under the CDFW depredation permit. USDA Wildlife Services continue to bait feral hog traps, and have successfully trapped several feral hogs, dispatching them with a firearm, collecting carcasses, and disposing of carcasses as directed and allowed by the CDFW depredation permit and CEMC policies.
- Padre biologists conduct a daily morning clearance of all roads and work areas prior to all activities on the site.
- Chevron biologists continue to monitor restoration sites throughout the lease.

LIFE AT GUADALUPE



Burrowing owl observed for several weeks this winter at the G11 Pad site.