

Aerojet Rocketdyne Activities –September 2016
(Bold Items shown on Figure)

- A **GET L-A**
- B **GET L-B**
- C **ARGET** – Reduction in 1,4-dioxane concentrations has eliminated the need for the HiPOx treatment system and it has been removed. VOCs are still removed by air stripper.
- D **AC-6**
- E **AC-12**
- F **AC-18** and **AC-23**.
- G **AC-24**
- H **GET AB** –No changes. Not all mass removal wells connected to the system. There is not sufficient capacity in the UV treatment system to treat the added mass of some of the higher concentration wells.
- I **GET E/F** The fifth air stripper has been installed and is operational. The connection of 6 extraction wells at the Sprayfield (IRCTS) has occurred.
- J **GET D** – No longer exists.
- K **GET J** – No changes.
- L **GET K** No changes
- M **GET H**
- N **White Rock Road North Dump -**
- O **New Monitor Wells/Extraction Wells:**
 1. All but one of the initial planned monitor wells for this year have been completed. The one remaining is in Fair Oaks north of Sailor Bar Park.
 2. Evaluating a new extraction well in Ancil Hoffman or Rossmoor Bar Park. Have completed monitor wells at three locations and planning one additional monitor wells in this area prior to selecting extraction well location. .
 3. Evaluating remedy enhancement west and north of **GET LB**. Completed construction of three new monitor wells and are looking at three additional locations prior to extraction well placement. Public Notices have been sent out on two locations.
 4. Two replacement monitor wells are going in near the Central Disposal Area on Aerojet. In addition an extraction well is going in Line 02 as part of a pilot test for remediation in that area.
- P **Perfluorinated Compounds** Regional Board sampling at GET EF detected PFCs in the influent and effluent at greater than 0.07 µg/L. Aerojet subsequently sampled all GET facilities and the results are pending. Follow on sampling will be dependent on the results of the initial round. Sampling at Mather Field found PFCs in the groundwater and in the influent and effluent of the groundwater extraction and treatment system.
- Q Sacramento County Water Supply Replacement Issues. Golden State Water Company and Carmichael Water District have completed a project to bring American River water to Golden State. Aerojet submitted a Short-Term Water Supply Replacement Contingency Plan and it is under Agency review.
- R Western Groundwater Operable Unit. Aerojet submitted an Inner Barrier Performance Evaluation Report in September and the Agencies are reviewing. Aerojet also submitted the 2nd Quarter 2016 Compliance Monitor Report.
Aspen Grove Mobil Home Park – Aerojet is completing the engineering work to hook up the community to CalAm water. The well has trace levels of perchlorate.

- S Perimeter Operable Unit –. Aerojet operating the Area 49000 SVE system. Have completed hooking up the recently completed additional extraction wells and they are available for use. Agencies and Aerojet are working on Land Use Covenants for additional sites. Aerojet submitted a Performance Evaluation Report for Zones 1 and 4. The report is under Agency review
- T Boundary OU. NO CHANGES EPA working on the implementing order for the ROD.
- U Island OU – Aerojet will be going out and collecting additional samples to fill data gaps over the next 1-2 years. Aerojet has submitted draft Feasibility Study for Area 40 and Final RI Report. The agencies are currently reviewing the draft FS. A Baseline Ecological Risk Assessment Sampling and Analysis Plan is also under review.
- V **Area 39 Open Space.** NO CHANGES.
- W Treatability Studies: NO CHANGES
- i) Encapsulated Bacteria for NDMA Destruction. Microvi expanded pilot study has been completed. Shown to be effective but inconsistent.
 - ii) **Area 40 PRB.** NO CHANGES. PRB still reducing VOC and perchlorate concentrations.
 - iii) Use of So. Cal perchlorate ion exchange resin to pretreat IX system at Aerojet. Evaluation completed. Full scale pilot at ARGET has also been completed.
- X Eastern Operable Unit. NO CHANGES Preparing Remedial Investigation report.
- Y Central Operable Unit. NO CHANGES Preparing Remedial Investigation report
- Z Cavitt Ranch Operable Unit – NO CHANGES Aerojet has prepared a remedial investigation sampling plan and the Agencies have this under review.
- AA Groundwater – General. Aerojet has submitted a 2016 draft groundwater monitoring plan and the Agencies have provided comments.
- BB NPDES Permit.
- CC Aerojet Landfills. Aerojet has received approval of its revised Clean Closure Plan and the Post-Closure maintenance plan. Aerojet completed a pilot study to test out the removal activities and has solicited bids for the removal. Results of the pilot test have been submitted. Soil vapor monitoring showed no significant methane concentrations – one probe had detectable concentrations. Landfill inspection occurred at the end of September.
- DD EPA Five Year Review. Completed and is available on-line at:
<https://yosemite.epa.gov/r9/sfund/r9sfdocw.nsf/WSDTechAlphabetic!OpenView&Start=1&Count=1000&Expand=4#4>
- EE
- FF Soil Vapor Intrusion: An additional evaluation of soil vapor intrusion on the Aerojet property is underway to respond to a lowered health risk value for TCE.

IRCTS:

1. **Sigma Complex In-situ Bioremediation of Groundwater.** Boeing has turned the system off and is evaluating rebound in groundwater. Concentrations of perchlorate have been reduced significantly. No changes.
2. **White Rock Road Dumps 1 and 2.** NO CHANGES. Closure is complete. Developing Land Use Covenants
3. **GET F Sprayfield and PBA.** NO CHANGES Two extraction wells are operational and are sending the water to GET EF. Six Sprayfield extraction wells will be hooked up soon Aerojet has proposed additional soil remedial actions for the PBA and is revising the plan based on agency comments.

4. **GET H-B.** Evaluating plume in the vicinity of the runway on Mather Field and construction of additional monitor wells to help define the plume has been completed. EX-5, closest extraction well to the Air Force injection field has been sampled for PFCs and the results are pending.
5. **SGSA Treatment System – NO CHANGES.** Boeing supplied a revised contingency plan and the agencies have approved it. Adding extraction wells and monitor wells to enhance plume containment near Sunrise Boulevard, north of Douglas Road. Two extraction wells and two monitor wells have been completed. Have added an additional monitor well south of Douglas Road to help define plume and plume capture there.
6. **Groundwater General.** Boeing/Aerojet has submitted the 2015 Groundwater Monitor Report. The Agencies have supplied comments and Boeing and Aerojet have provided responses.
7. **Soils General.** Aerojet has proposed some building removal/securing and debris removal to eliminate potential hazards to trespassers and will be undertaking that task shortly.