

Aerojet Activities – January 2013
(Bold Items shown on Figure)

- A **GET L-A**
- B **GET L-B**
- C **ARGET-** Constructing GET D to ARGET pipeline. GET D facility will go away.
- D **AC-6**
- E **AC-12** Have commenced construction activities to turn the well into an extraction well. Taking a bit longer than anticipated to repair the well and anticipate starting the well at the end of March.
- F **AC-18** and **AC-23**
- G **AC-24** – well constructed. Still need to complete site improvements – operational in early 2013.
- H **GET B** -
- I **GET E/F** purchased IX units for perchlorate removal – allowing plant expansion. GET E/F pipeline being replaced with an HDPE pipe – previous pipe was temporary.
- J **GET D** will be closing and moving treatment to ARGET
- K **GET J**
- L **GET K** – should complete conversion of AC-12 to extraction well early 2013.
- M **GET H** – Installing additional IX units – pressure drop has been too great and future extraction wells
- N **White Rock Road North Dump**
- O **New Monitor Wells/Extraction Wells:**
 - 1. Planning a new Zone 1 monitor near extraction well 4380 in Gold River to assess capture.
- P **Chettenham Well**
- Q Sacramento County Water Supply Replacement Issues.
- R Western Groundwater Operable Unit. Aerojet submitted a revised annual ground water monitoring plan. Agencies are reviewing. Also, Aerojet submitted revised plume maps and those will be placed on GeoTracker by the end of the week.
- S Perimeter Operable Unit – Aerojet has collected soil samples in Area 4900 to help design of a proposed SVE system. Samples provide data for input into models to assess the area that needs remediation. Aerojet has removed soils impacted by perchlorate at site **C41** within the PGOU and has issued a closure complete letter. Aerojet has submitted revised Preliminary Design Reports for groundwater (Zones 1, 2 and 3) remedy in response to comments and discussion an agency meeting in October. Agencies re reviewing. Site **C4** – lead and dioxin contaminated soil excavation to one foot. Additional soils have been excavated and are being hauled away this week. Confirmation sampling will be performed.
- T Boundary OU – Revised Feasibility Study submitted to the Agencies. Agencies supplied comments on remedial areas found in the FS to Aerojet at the December 2012 Agency Technical Meeting.

U Island OU – With moving Area 39 to the IOU in order to complete the Baseline Ecological Risk Assessment and not delay BOU, Aerojet has provided a BERA work plan and the Agencies have supplied comments. Aerojet is drafting response. IOU RI anticipated to be submitted by the end of January. Aerojet is also preparing a Human Health Risk Assessment for the Hogout site as an example to have the agencies look at prior to preparing the HHRA for the entire OU.

V Treatability Studies:

- i) **Line 03.** (Walnut shell/sulfur destruction of perchlorate) Temporarily shut down as nitrogen gas formation has caused some overflow of the Redox box. Nitrogen gas coming from reduction of nitrate and ammonia. Was working well in destruction of perchlorate. No change
- ii) **Bioremediation of NDMA.**
- iii) Encapsulated Bacteria for NDMA Destruction. Completed – mixed results.
- iv) HIPOx for NDMA destruction at **GET B**
- v) Column Studies –Atlantium UV at **GET B** - study complete.
- vi) Area 40 PRB. .

W Eastern Operable Unit.

X Central Operable Unit

Y NPDES Permit.

Z IRCTS:

- i) **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.
- ii) **White Rock Road Dumps 1 and 2.** Looks like construction may not occur until next spring as the County approval and bidding process must still take place.
- iii) **GET F Sprayfield and PBA.** Two new extraction wells have been constructed to expand capture of perchlorate plume.
- iv) **GET H-B**

Other GR Trucking supply well 1029 will be provided with perchlorate treatment IX unit. The water is being used for rock crushing, concrete crushing and dust control.

Area 39 – will be looking at extent of perchlorate just to the south –Aerojet will supply a Sampling and Analysis plan.

Used Ion Exchange Resin from So Cal Drinking Water wells – Aerojet has performed a study looking at using the additional capacity of the IX resin in their treatment systems. Looks like it could reduce Aerojet's use of new resin by 50%.