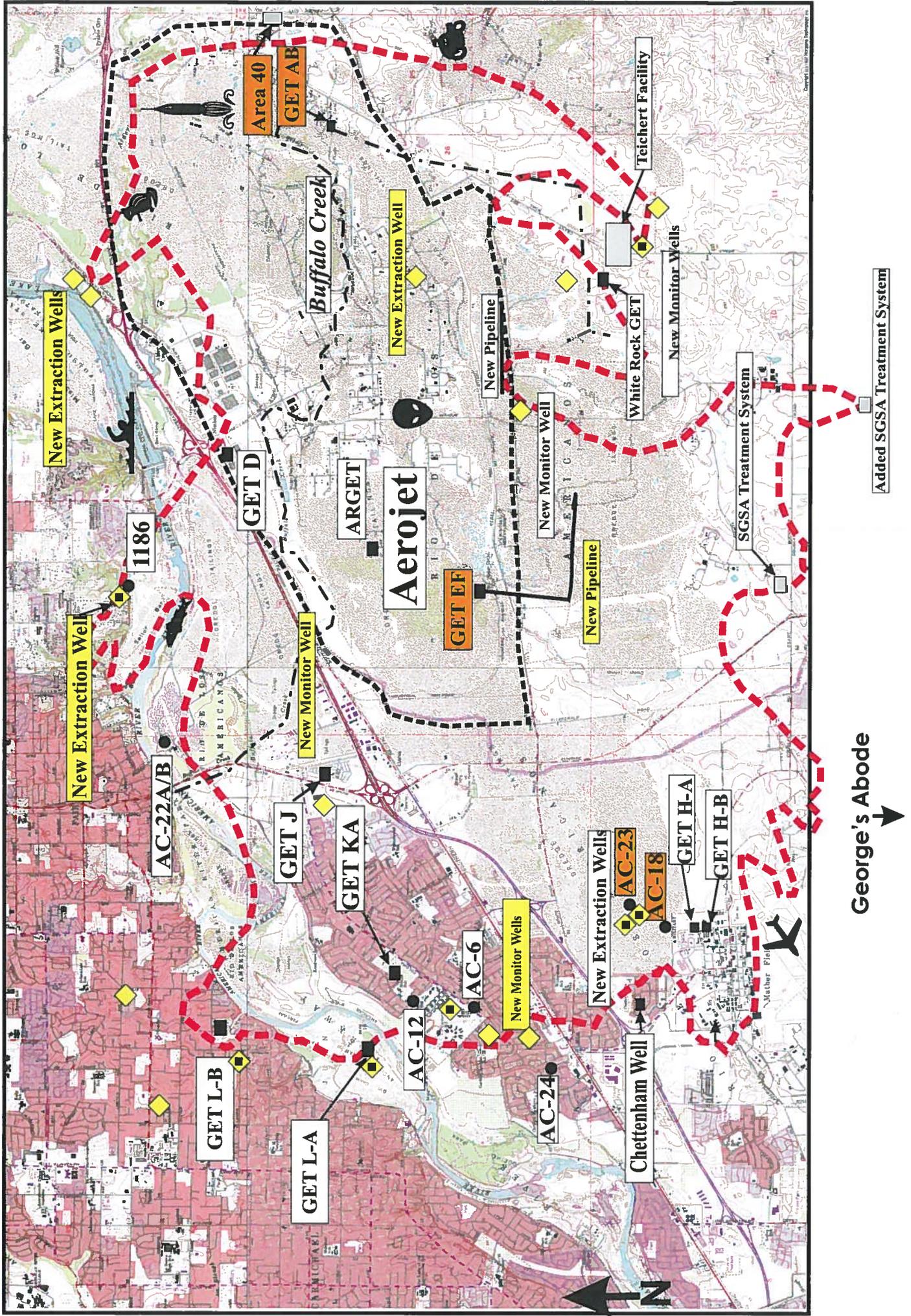


Aerojet CAG - November 2014



Aerojet Rocketdyne Activities – October 2014
(Bold Items shown on Figure)

- A **GET L-A**
- B **GET L-B**
- C **ARGET**
- D **AC-6**
- E **AC-12**
- F **AC-18** and **AC-23**. AC-18 operating full-time with IX units for perchlorate removal.
- G **AC-24**
- H **GET AB** – Expansion of plant is completed and additional wells being brought on-line. Plant capacity is now 4000 gpm. New facility will reduce the power used by the UV system. Up to 1200 gpm is provided to Aerojet's industrial water supply. Pipeline being constructed to bring two new extraction wells to the plant is nearly completed.
- I **GET E/F** Installing IX units for perchlorate removal – allowing plant expansion. Some IX units are now operational. A new air stripper will also be added. Following the construction of the new pipeline to GET AB, a new pipeline connecting extraction wells on the IRCTS property in southeast Zone 2, and extraction wells for the Propellant Burn Area and GET F Sprayfield will be constructed – started in September and will soon be completed beneath White Rock Road.
- J **GET D** is closed and treatment for GET D wells is now at ARGET.
- K **GET J**
- L **GET K**
- M **GET H – Two new Layer D extraction wells completed and operational.**
- N **White Rock Road North Dump -**
- O **New Monitor Wells/Extraction Wells:**
 1. Well being completed in Carmichael - Queenston Court to define NDMA plume; and, depending on results from Queenston Court, a well a well near Lincoln Avenue is a potential option.
 2. New extraction well near Hogout in Layer A will be started after Queenston Court well completed.
 3. Monitor well on Trinity River Drive is being delayed until after the holidays. Will be drilled in January 2015.
 4. New monitor well for Layer E/F in southeast Zone 2 on IRCTS property likely to be drilled in early December.
 5. Working on completing electrical panel and pipeline for extraction well on Emperor Drive in Fair Oaks.
 6. Two more monitor wells in Zone 3 near new extraction wells to help define plume capture. These are near extraction wells 4714/15 and 4716/17.
- P **Chettenham Well**
- Q Sacramento County Water Supply Replacement Issues. Golden State Water Company and Carmichael Water District are working on a project to bring American River water to Golden State
- R Draft Soils Engineering Evaluation and Cost Analysis – Aerojet has proposed to expedite soil cleanups where the proposed remedy is excavation. This document would be used as the process to do so. Agencies are reviewing. EPA is indicating that the proposed process will likely not be acceptable.
- S Western Groundwater Operable Unit. Aerojet submitted an Outer Barrier Performance Evaluation Report to assess plume capture in February 2014 and an Inner Barrier report in August 2014.

- T Perimeter Operable Unit – Aerojet is completing improvements to capture system discussed above. Aerojet has constructed the SVE system in Area 4900 and is conducting a pilot test in to determine radius of influence. Then design full-scale system while pilot system continues to operate.
- U Boundary OU – Draft ROD. EPA estimates that the ROD will be completed by the end of 2014.
- V Island OU – Agencies have supplied comments on draft remedial investigation report and Aerojet has prepared responses. Aerojet is preparing the draft risk assessment. Aerojet submitted a supplemental Sampling and Analysis Plan for Area 40 to further defined the extent of contamination. Field work is ongoing.
- W **Area 39 Open Space** – Agencies are reviewing the Final RI.
- X Treatability Studies:
- i) **Line 03.** No change
 - ii) **In-situ Bioremediation of NDMA.** Addition of propane into the shallow groundwater to stimulate bacteria to degrade NDMA finished field work. Report has been finalized.
 - iii) Encapsulated Bacteria for NDMA Destruction. Microvi expanded pilot study is on-going. 120 gpm at **GET E/F** – fluidized bed. No Change.
 - iv) **Area 40 PRB.** Results of 2014 sampling event have been received. PRB still reducing VOC and perchlorate concentrations.
 - v) Use of So. Cal perchlorate ion exchange resin to pretreat IX system at Aerojet. Evaluation completed. Full scale pilot at ARGET is taking place.
- Y Eastern Operable Unit. Preparing Remedial Investigation report.
- Z Central Operable Unit.
- AA NPDES Permit. Revised permit adopted early this month. Added capacities at treatment facilities, refined pollutant list for effluent limits added extraction well 4665 discharge
- 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.** Closure is complete.
 3. **GET F Sprayfield and PBA.** Two new extraction wells have been constructed and are awaiting pipeline to GET E/F as part of the PGOU effort.
 4. **GET H-B.** No changes.
 5. **SGSA Treatment System** – Due to the construction of a storm drain main along Douglas Road that will cut off the pipeline from the extraction wells on the south side of Douglas Road, Boeing is constructing a small treatment system south of Douglas Road.