

**Former McClellan Air Force Base (AFB)  
Restoration Advisory Board (RAB) Meeting Minutes - FINAL  
September 15, 2016 -- McClellan, California**

Time: 6:30 PM

Place: North Highlands Recreation Center  
North Highlands, California

**RAB Member Attendees**

<u>NAME</u>	<u>AFFILIATION</u>
CHRIS DIRSCHERL	U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
BOB FITZGERALD	U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
STEVE MAYER	AIR FORCE CIVIL ENGINEER CENTER; CO-CHAIR
STEPHEN PAY	CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCE CONTROL
JAMES TAYLOR	CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD
GLENN JORGENSEN	NORTH HIGHLANDS COMMUNITY
ALAN HERSH	MCCLELLAN BUSINESS PARK
GARY COLLIER	PARKER HOMES COMMUNITY, CO-CHAIR
CHARNJIT BHULLAR	U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)
DANA HACHIGIAN	TETRA TECH

**I. Welcome, Introductions and Agenda**

Mr. Bill Davis welcomed everyone to the meeting and introduced himself as the meeting facilitator. Attendees signed the sign-in sheet, and picked up available handouts. Mr. Davis went over the meeting's open house-style format, which included posters and handouts that provided updates on the status of the remediation and property transfer taking place at McClellan (see Attachment 1). Mr. Davis then invited attendees to introduce themselves and the groups/organizations they represent.

**Air Force Cleanup Update**

Mr. Mayer provided an explanation of each of the posters on display for the meeting, including the current Field Activities, the Follow-on Strategic Sites, Old Magpie Creek Channel, AOC 314, and Hexavalent Chromium, and Property Transfer (see Attachment 1). Mr. Mayer invited attendees to ask any questions they might have regarding the information.

**Privatized Cleanup Update**

Mrs. Dana Hachigian provided an overview of the Privatized Cleanup information offered. Mr. Fitzgerald invited attendees to ask any questions they may have regarding the information.

The meeting adjourned at 8:15 p.m.



# **McClellan Restoration Advisory Board**

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**September 15, 2016**

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# RAB Purpose

The McClellan Restoration Advisory Board provides a forum through which the local community, regulatory agencies, and the Air Force can share information on the current and future environmental cleanup programs and reuse at the former base. RABs offer members the opportunity to influence cleanup decisions through discussion and to provide input to the installation decision makers.

**RAB members are volunteers representing their communities. Environmental restoration experience is not required for RAB membership. Rather, RAB membership criteria emphasizes the diversity an individual will bring to the RAB and the individual's commitment toward achieving the RAB's goals.**



# RAB Meeting Agenda

**Welcome, Introductions and Purpose**

**Facilitator**

**Agenda**

**Facilitator**

**Air Force Cleanup Update**

**Air Force**

**Privatized Cleanup Status**

**Tetra Tech**

**Open House Poster Session**



# Air Force Cleanup Update



Steve Mayer  
McClellan BRAC Environmental Coordinator



# Follow-On Strategic Sites Update



**CS043** – Excavation has been completed. Sampling activities will continue. No further excavation is planned this season.



**CS069** – Excavation will begin next field season.

**Project Background**

- Record of Decision was signed in 2014
- 34 action sites
- Follow-on Strategic Sites include:
  - 28 Privatized sites
  - 6 Air Force sites – 5 landfills sites and 1 bio-vent site
- Objectives:
  - Excavate and dispose of contaminated soil and waste at the Consolidation Unit, or if contaminated soil characteristics do not permit disposal at the Consolidation Unit, at a U.S. EPA approved waste management facility.
  - Backfill and compact the excavated areas with clean soil, meeting industrial use standards.
- Project will take approximately two years to complete



**CS052** – Excavation will begin next field season.



**CS067** – Excavation was halted due to elevated RAD detections. Initial sample had elevated Radium Thorium and Uranium. Additional sampling will be done.



**PRL020** – Initial excavation has been completed, confirmation testing is underway. Additional excavation is required for contamination extending into groundwater treatment plant.

McClellan  
FOSS - Five Remedial Action Sites

CS 067  
CS 052  
CS 069  
CS 043  
PRL 020  
CS 069







# IC 29 Groundwater Optimization Update

The Air Force conducted a remedial process optimization project at Investigative Cluster (IC) 29 in Operable Unit A.

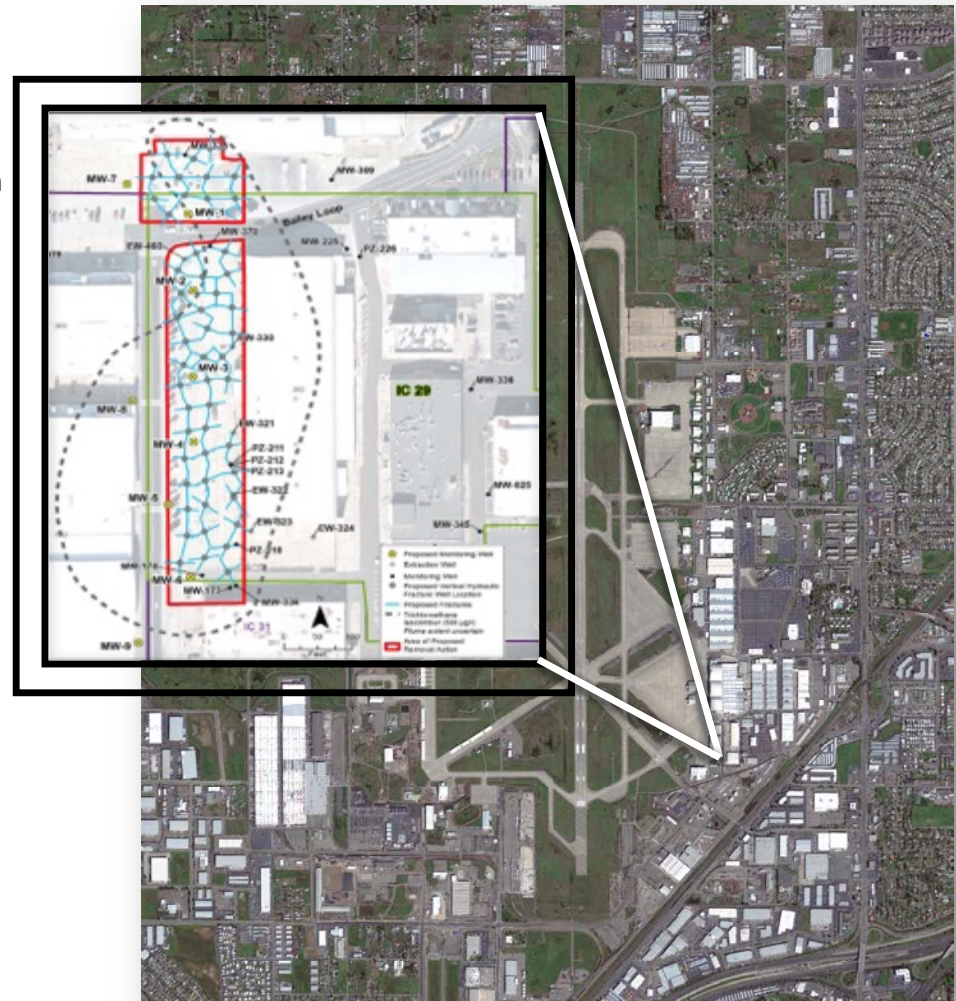
Once considered to be the plume with the longest cleanup time, the cleanup of IC 29 could now be reduced by as much as 17 years.

## What was done –

In 2013, the Air Force installed 52 permeability enhancement wells 30 feet apart. Permeability pathways were created between 110 and 130 feet below ground surface.

## Results –

- Results show groundwater extraction flow from the treatment area has increased by approximately 29 percent.
- Average TCE concentrations in the wells within the treatment area has decreased by 45 percent.
- Average TCE concentrations at extraction wells within the treatment area have decreased by 53 percent.





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# Hexavalent Chromium (Cr6) Update

- The Air Force has signed the final Explanation of Significant Difference (ESD) for Hexavalent Chromium in groundwater at McClellan.
- A public notice was published in the Sacramento Bee.
- A public comment period took place from July 22 to August 23.
- The ESD adds a site background cleanup level (14 micrograms per liter) to the Non-Volatile Organic Compound (Non-VOC) Amendment to the base wide VOC Groundwater Record of Decision.
- Extensive sampling confirmed that Hexavalent Chromium has not significantly migrated from McClellan.
- An on-base tenant is paying to hook up to the treatment plant discharge and use the water as a benefit for their operations.

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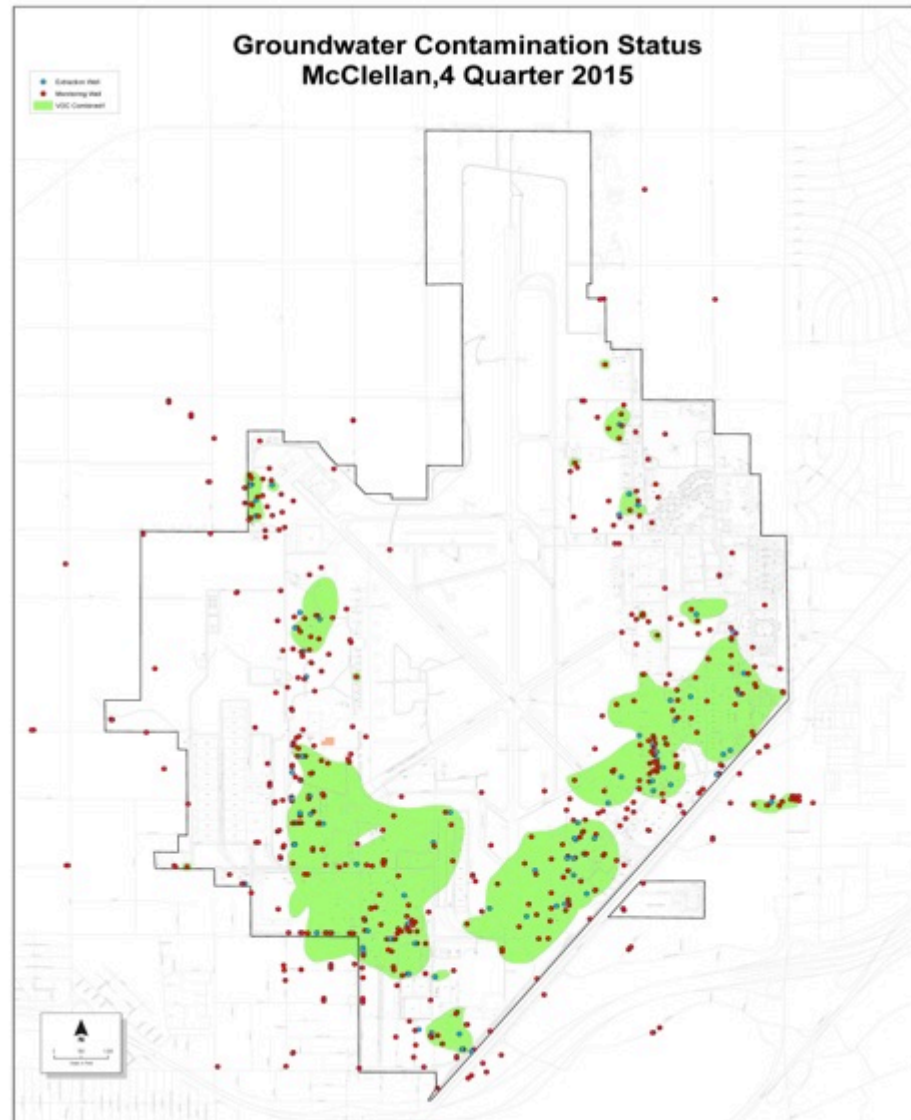
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# Groundwater Cleanup Update

- Groundwater treatment plant is treating 1400 gallons per minute pulled from 80 extraction wells.
- Influent TCE concentration averages about 20 ppb.
- Removing about 0.4 lbs per day of TCE.
- Most contamination is shallower than 200 feet below surface (A and B Zones).



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# Old Magpie Creek Channel Update

Backfill and site restoration at Trench 1 has been completed.



## Path forward:

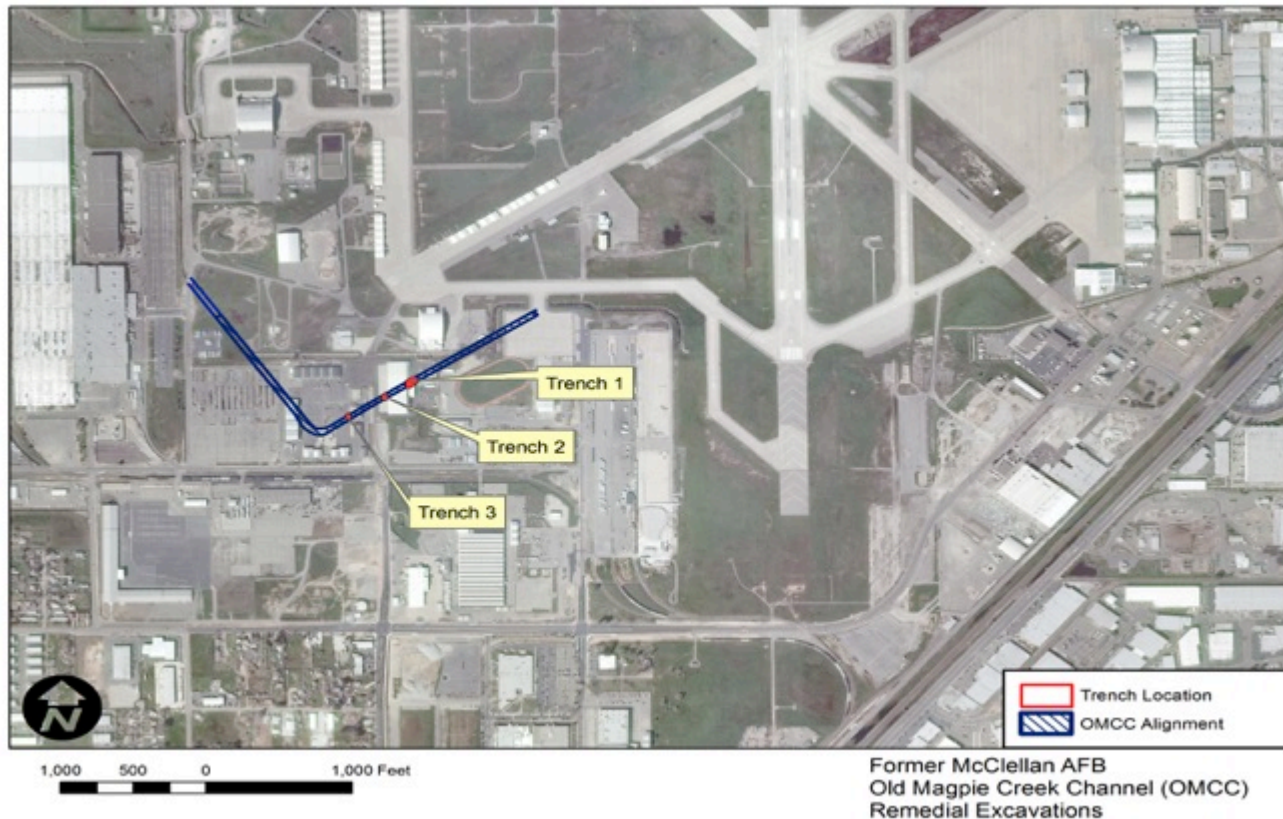
- A contract will be awarded in early 2017 to address contamination under the building and further downstream.
- An engineering study will be done to determine the best way to address the contamination under the former hanger building.
- Field work will begin following revisions to the work plan.

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# Old Magpie Creek Channel



- The cleanup action is part of FOSET 3.
- To facilitate transfer of the property from the Air Force to Sacramento County, the removal action was designed to achieve unrestricted release of the site.
- Site restoration of Trenches 1, 2, and 3 completed in April 2016.

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# Area of Concern (AOC) 314

- AOC 314 is a non-time critical removal action.
- The third round of excavations has been completed.
- Excavated soil was placed in Consolidation Unit.
- Sample results indicate that cleanup levels have not been achieved in multiple locations.
- Additional funding is being obtained to complete this effort.
- The remaining excavation will take place in 2017 and 2018 if needed.
- 3,100 cubic yards of soil have been removed.

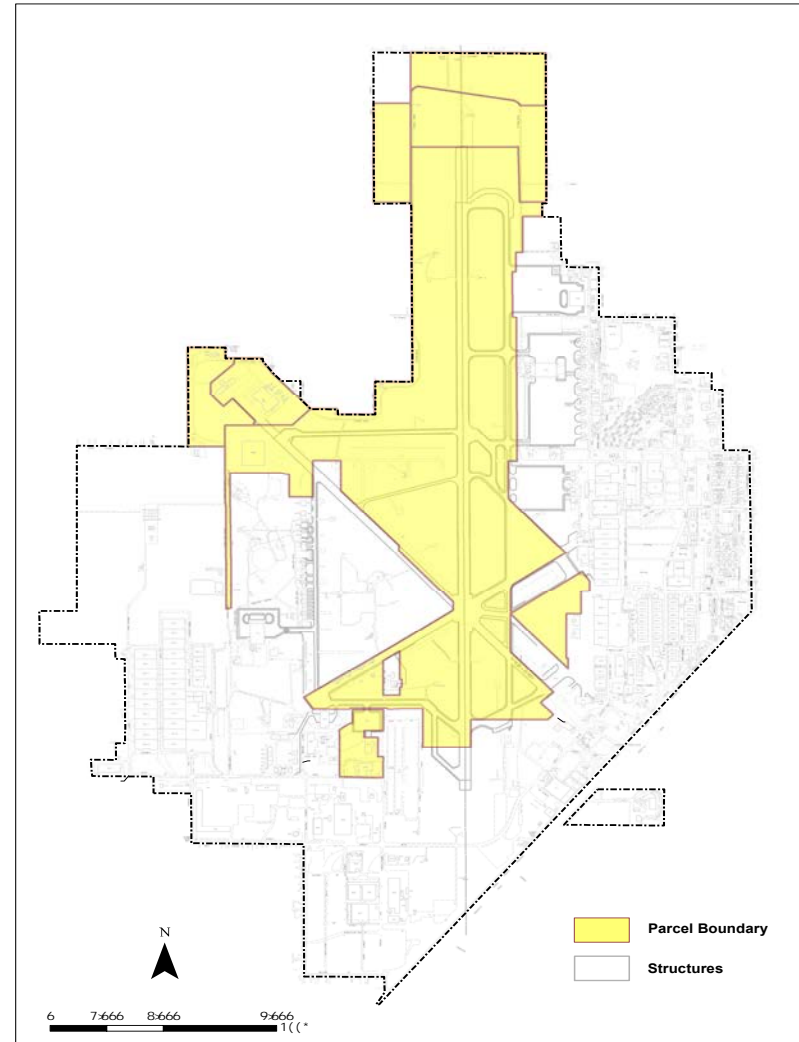




# Property Transfer Update

Airfield FOST Parcel Map  
Former McClellan AFB

- The Air Force is in the final stages of finalizing a Finding of Suitability to Transfer (FOST) document for 949 acres to be transferred to Sacramento County.
- The FOST is the Air Force's determination that the property is suitable for transfer and is based on an extensive review of the environmental condition of the property in consultation with federal and state environmental regulatory agencies.
- Parcels are primarily located within the airfield and general industrial subdistricts at the core aviation/industrial district.
- The anticipated use of these parcels includes aviation and industrial uses.
- To date, McClellan has transferred 2069 of 3,458 acres. The former base is now 60 percent transferred.

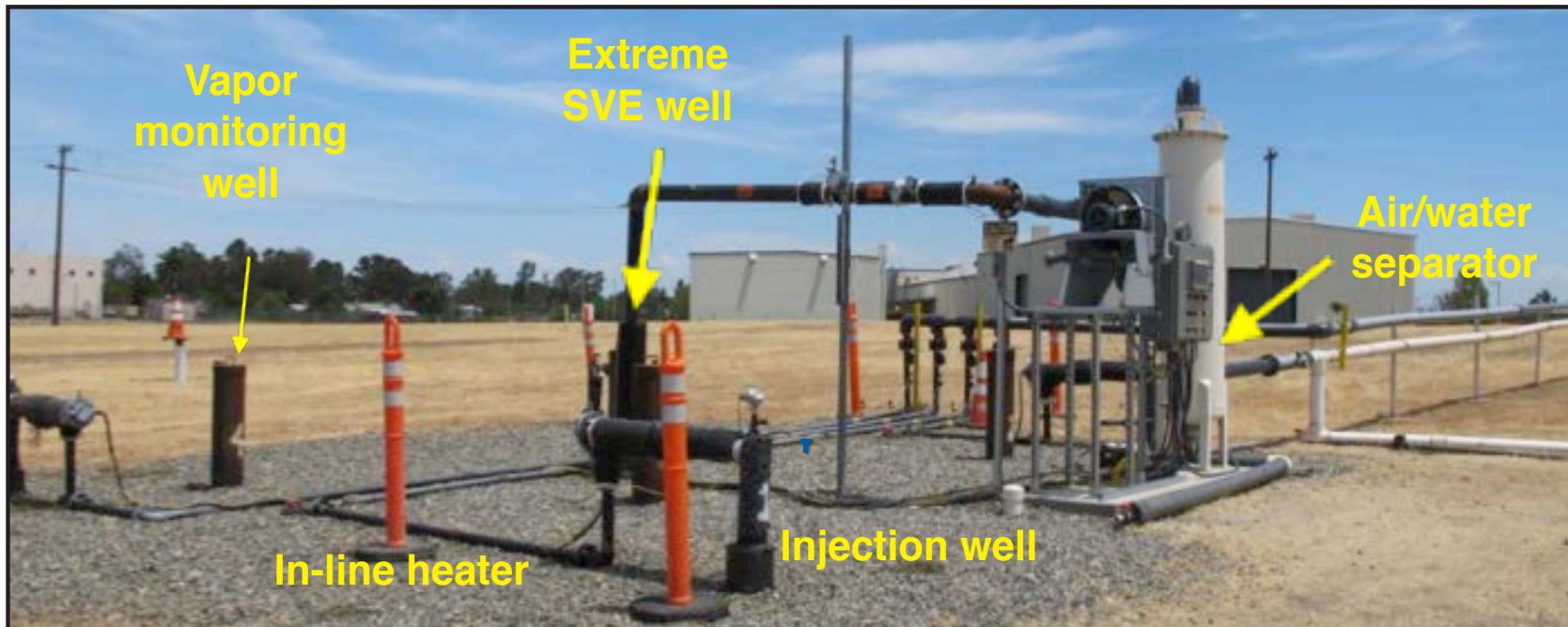


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# Base hosts innovative technology projects



## Project 1

The two projects focused on the cleanup of 1,4 dioxane and were conducted at no cost to the Air Force.

Both demonstration projects were conducted within Operable Unit (OU)D in the northwest portion of McClellan where eleven disposal pits were once located. McClellan was selected as a suitable site for these demonstrations based on the presence of 1,4-dioxane in soil and groundwater.

Extreme Soil Vapor Extraction (XSVE) has increased the rate of removal of 1,4-dioxane from soil within the treatment zone by more than 95 percent. The XSVE technology study involves injecting hot air into vadose zone soils to warm and dry the soil and then extracting the heated soil gas to allow for increased removal of 1,4-dioxane through SVE.

## Project 2

A study to evaluate biodegradation of 1,4-dioxane in groundwater was conducted in the same general area within OU D. This system injected propane and oxygen into the groundwater through an injection well that assisted with the biodegradation. Results suggest propane is a successful treatment and effectively reduced 1,4-dioxane concentrations in groundwater monitoring wells at the site by 99 percent.

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## McClellan Financial Update

- **Approximate Cost to Date = \$533 million**
- **Estimated Cost to Complete = \$51 million**
- Primarily includes:
  - Completion/Closure of Consolidation Unit
  - Final confirmation sampling and completion reporting for Ecological Sites
  - Completion of Old Magpie Creek Channel
  - Basewide Groundwater and SVE program Operation and Maintenance
  - Five-Year Reviews



# McClellan RAB Presentation Privatized Cleanup Progress

Former McClellan AFB, California  
15 September 2016



# Privatized Cleanup Summary

## Parcel C-6 – Complete

### FOSET 1 –

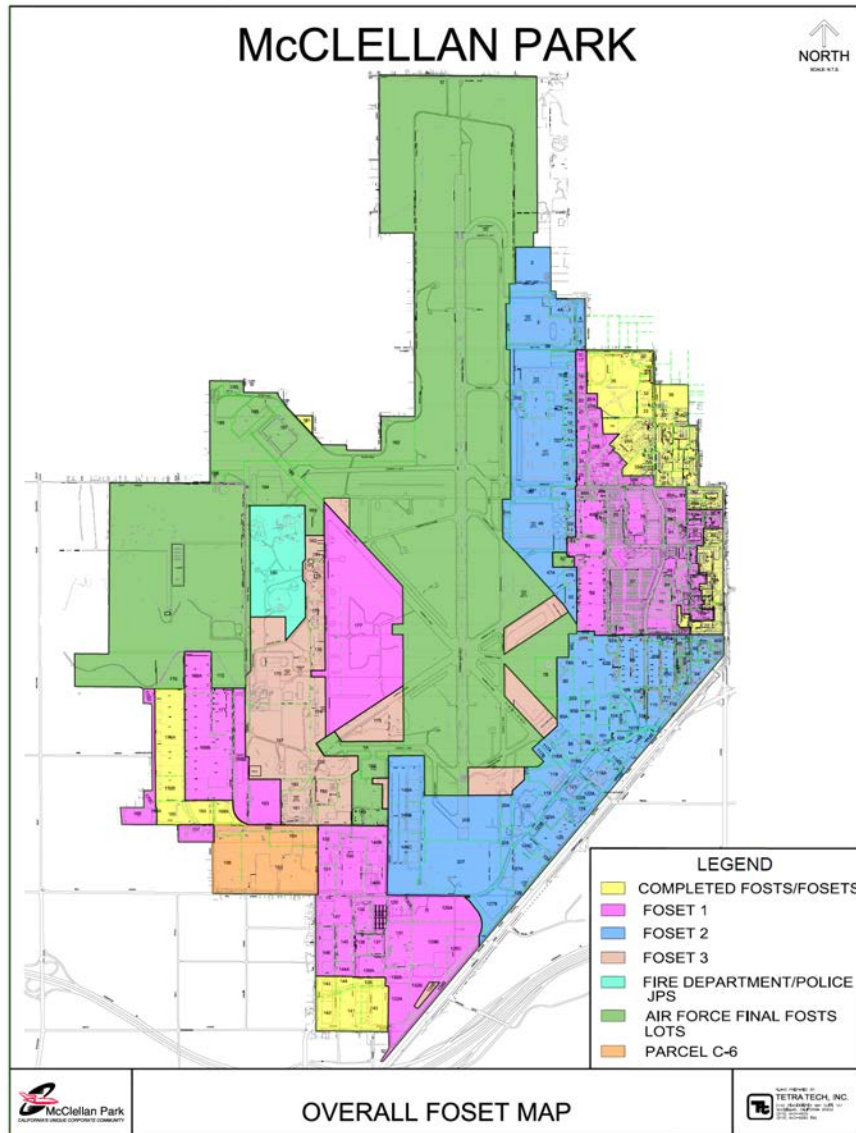
- Cleanup Complete (IP #2 Sites)
- Cleanup Complete (IP #3 Sites)
- Study in Progress (Group 4 Sites)

### FOSET 2 –

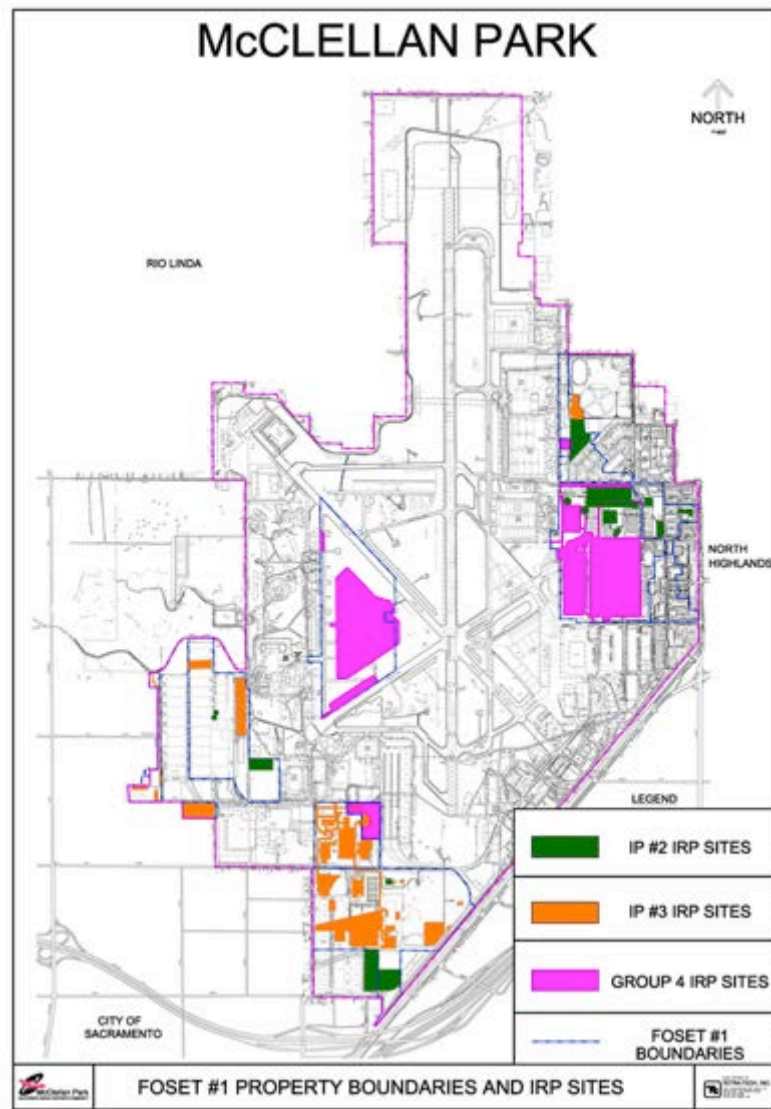
- Cleanup Decisions (2 site groups complete, 1 in progress)
- Remedial Design / Remedial Action in progress (2 site groups)

### FOSET 3 –

- Cleanup Work Plan in Progress



# Finding of Suitability for Early Transfer



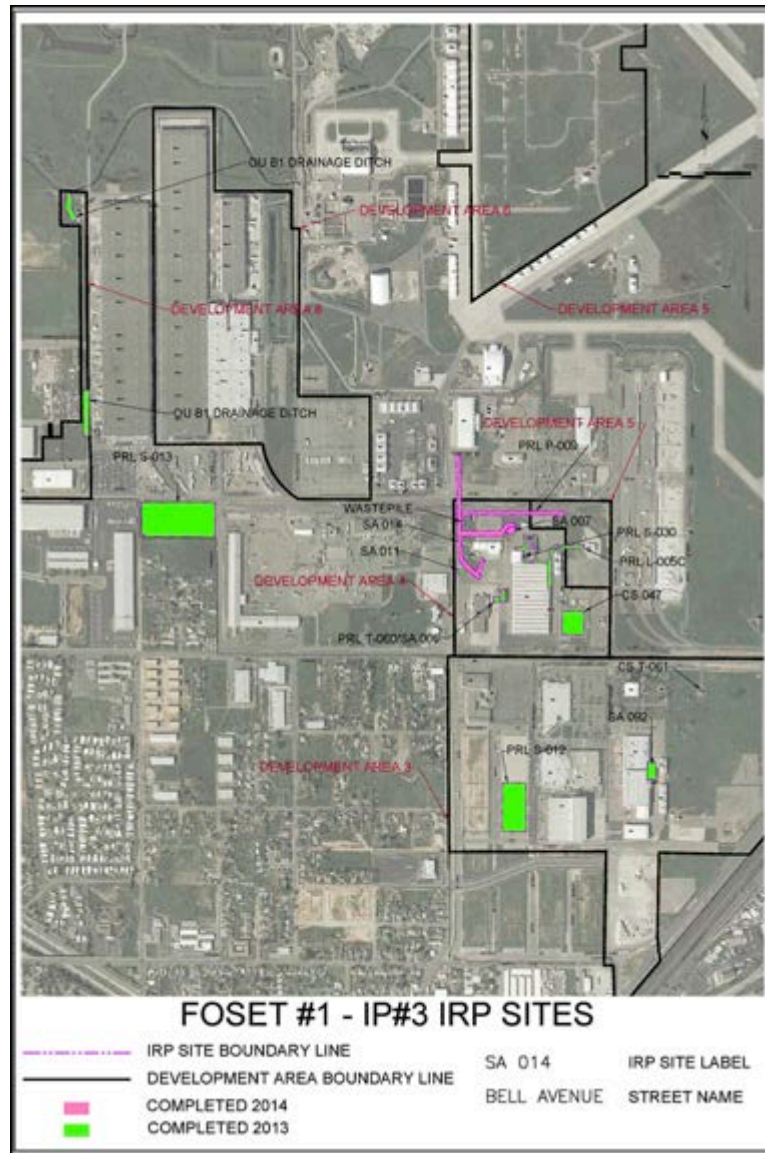
T) #1

- **Initial Parcel #2 Sites** – Complete
- **Initial Parcel #3 Sites** –
  - Remedial Action complete
  - Completion Reports in progress
- **Group 4 Sites** – Remedial Investigation / Feasibility Study in progress

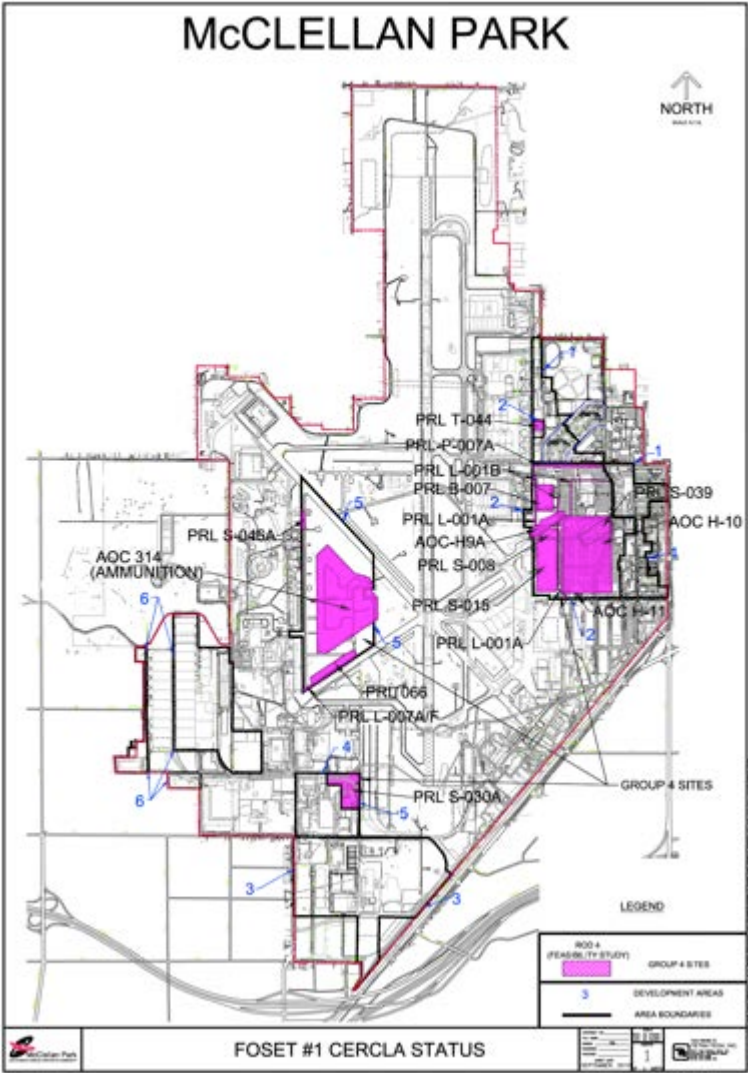
# #1 (IP #3)

## IP #3 Sites

- Field Cleanup Activities 100% completed
- One Completion Report pending
  - Development Area 3 – Complete
  - Development Area 4 – Complete
  - Development Area 6 – Draft Final



# FOSET #1 (Group 4)



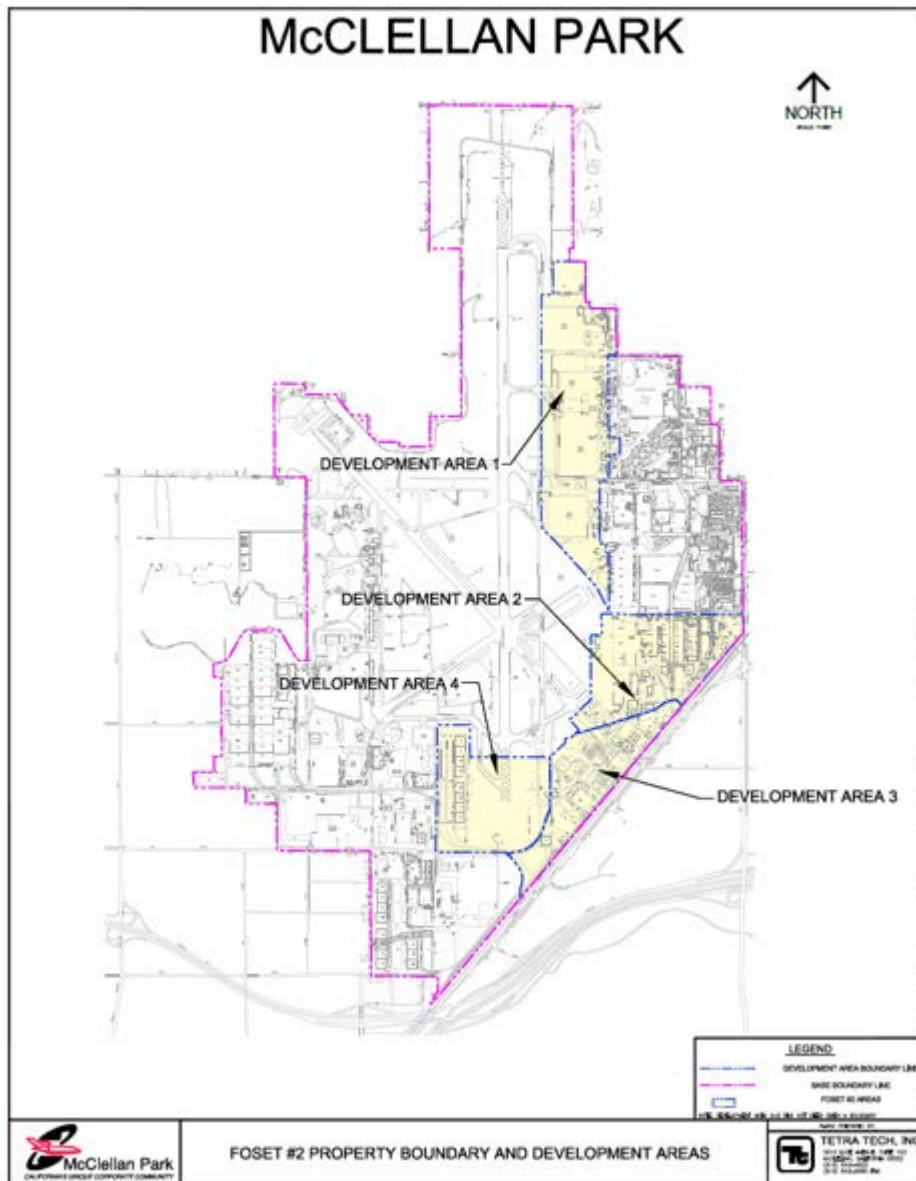
- Summer 2015
  - Completed data gap sampling
- Early 2017
  - Final RI/FS anticipated
- Late 2017
  - Proposed Plan approval
    - Public Meeting & Public Comment Period
- Late 2018
  - Record of Decision (ROD) – cleanup decision approval



# FOSET #2

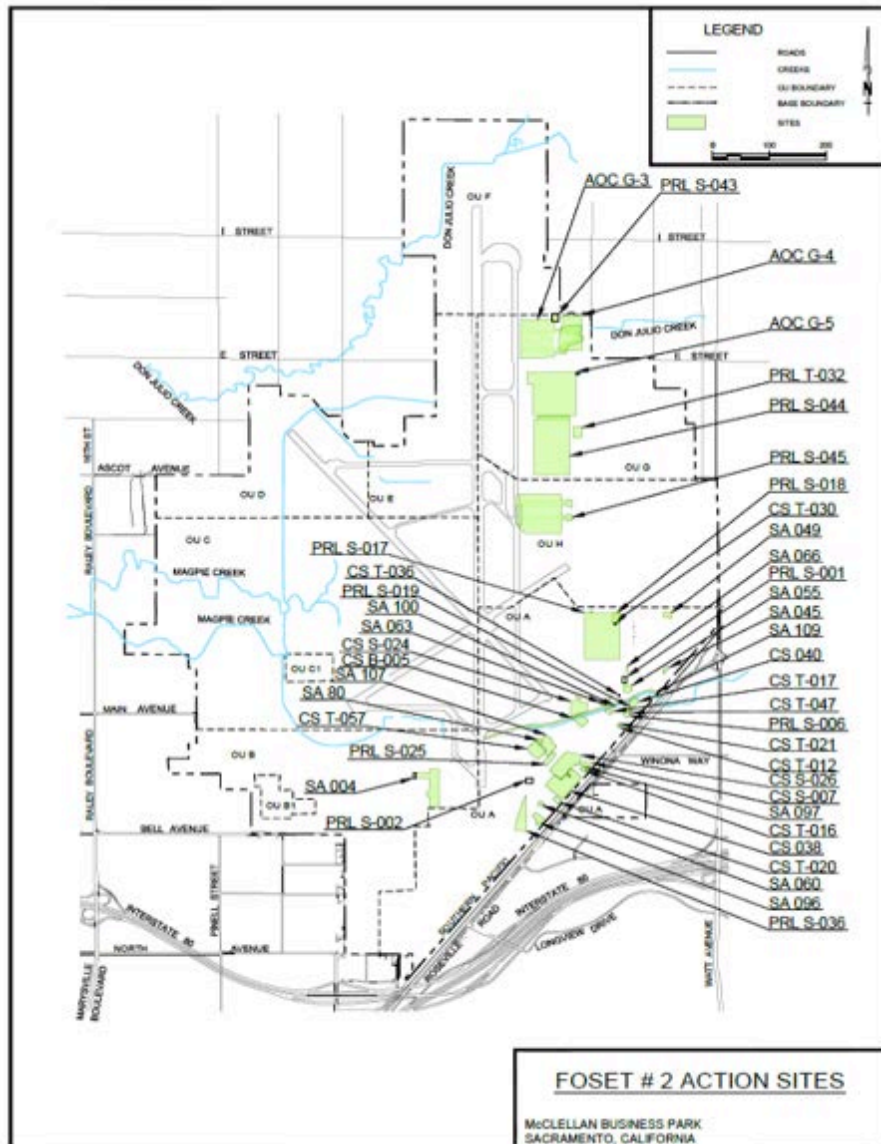
## ■ Transfer Included:

- 528 acres of former McClellan AFB
- 133 sites (10 sites cleanup decisions included in completed Air Force RODs)
- Three FOSET 2 Privatization RODs will include 123 sites
  - FOSET 2 Action Sites ROD (43 Sites) - completed
  - FOSET 2 No Further Action Sites ROD (35 Sites) - completed
  - FOSET 2 Group 2 Action Sites ROD (45 Sites) – proposed plan in progress





## FOSET #2 (Action Sites)



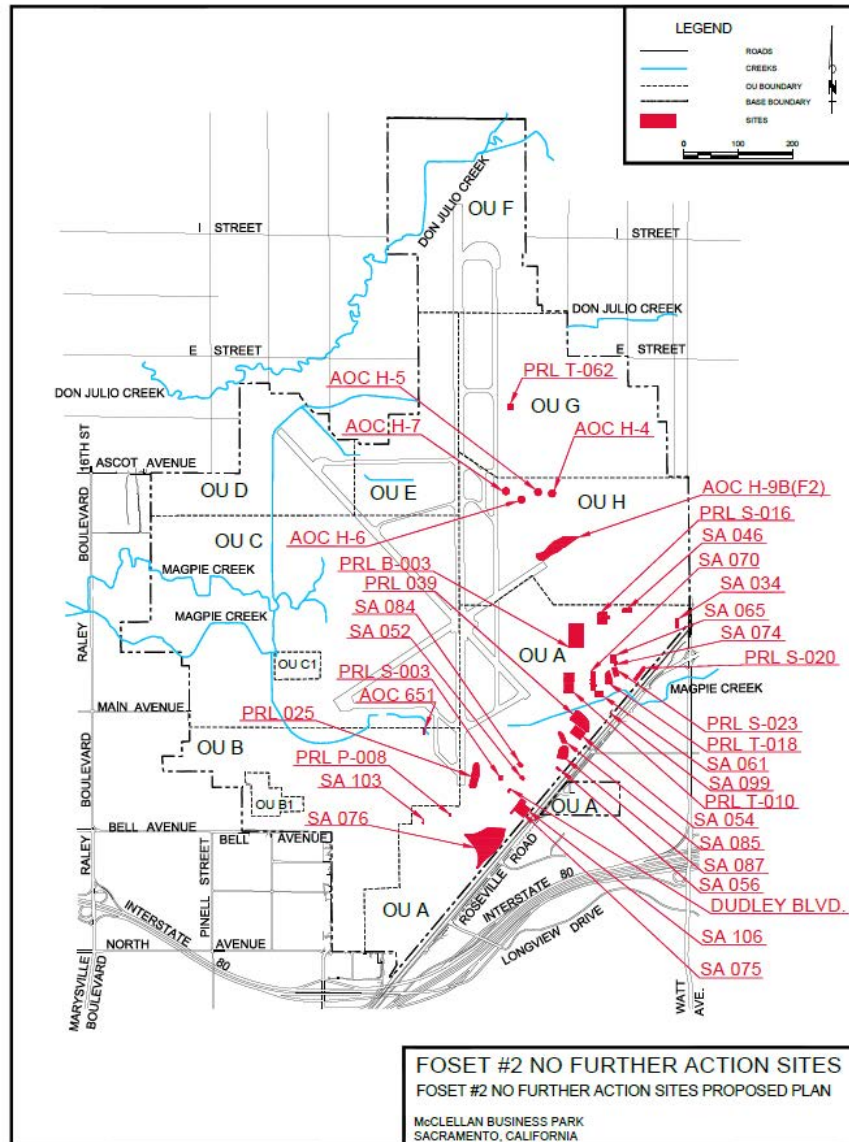
## FOSET #2 Action Sites (43 Sites)

- Record of Decision signed by Environmental Protection Agency (EPA) on March 2, 2015
- Final Remedial Design/Remedial Action (RD/RA) Work Plan approved by regulatory agencies February 2016.
- Field work began in May 2016

# FOSET #2 (No Further Action Sites)

## No Further Action Sites (35 Sites)

- Proposed Plan completed in August 2015
- Record of Decision signed by Environmental Protection Agency (EPA) July 2016
- No Cleanup Required (ready for reuse)



# FOSET #2 (Group 2 Action Sites)

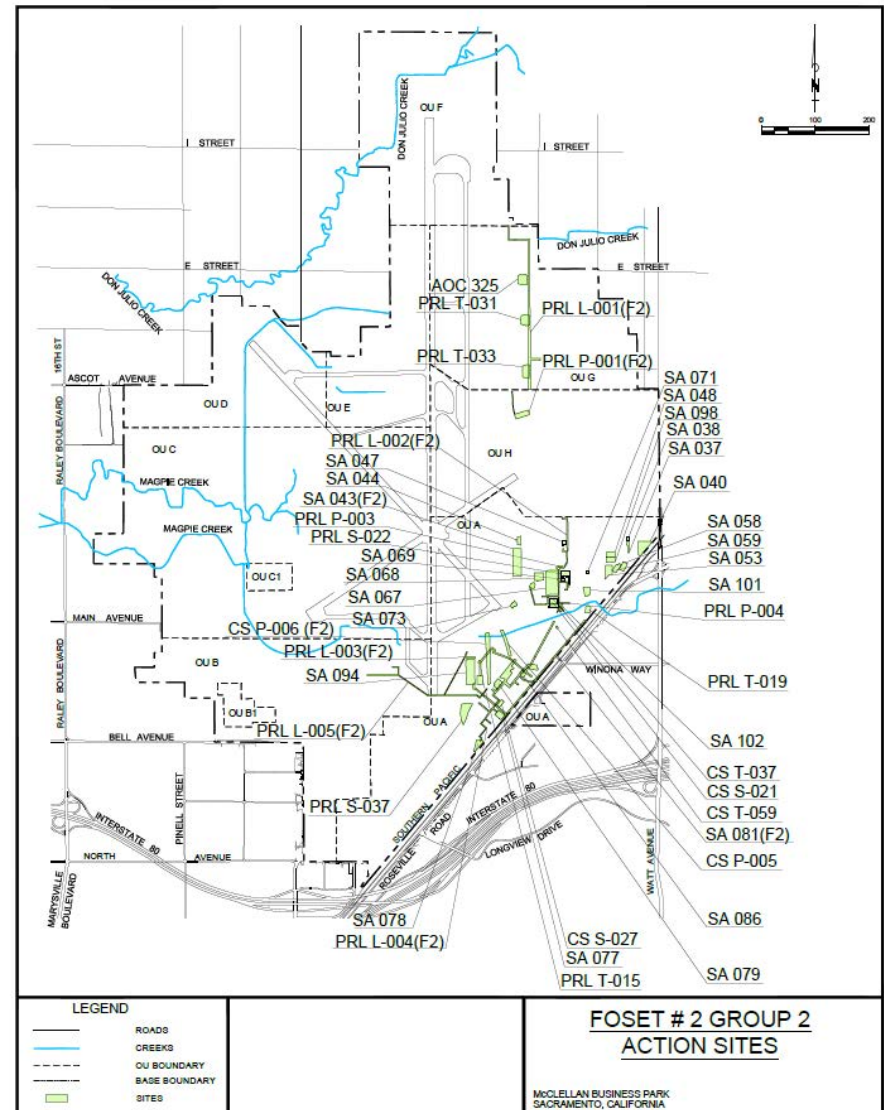
## Group 2 Action Sites (45 Sites)

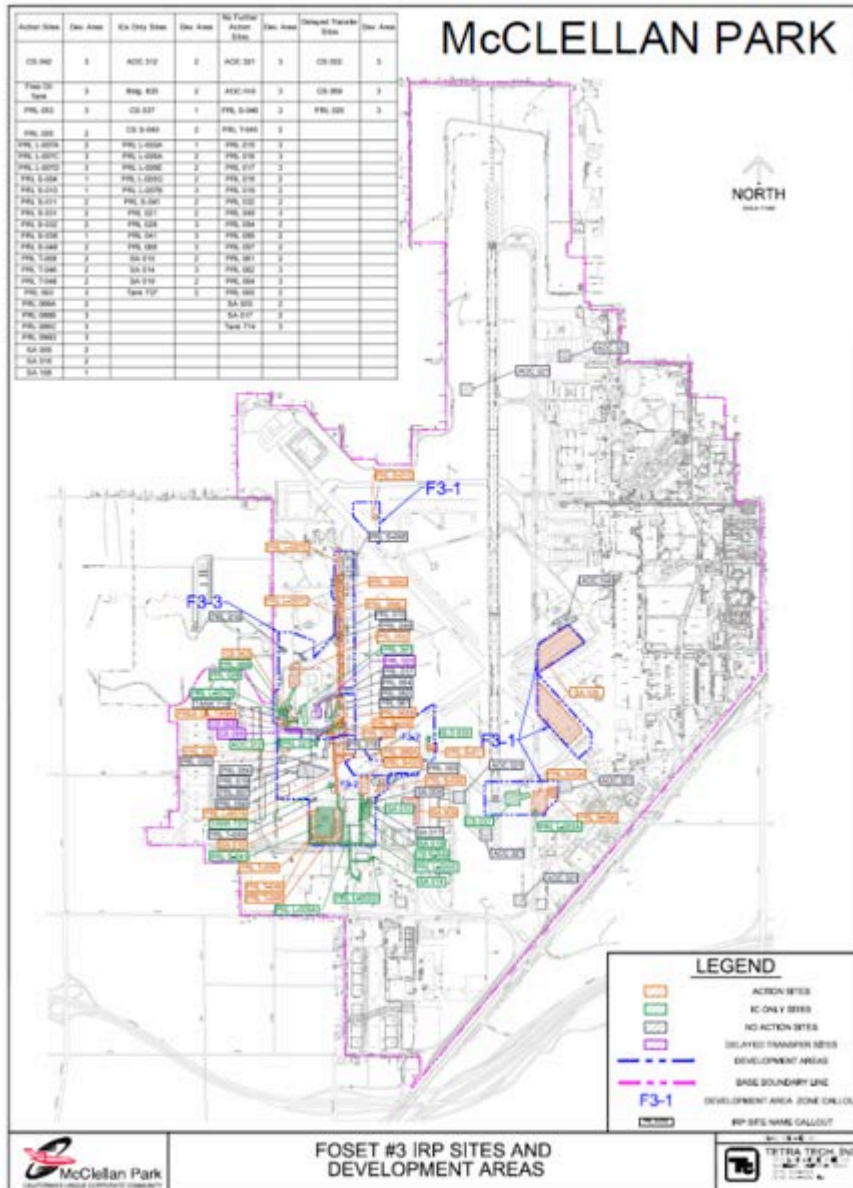
### ■ 2016

- Proposed Plan
- Proposed Plan Fact Sheet
- Public Meeting and Public Comment Period

### ■ 2017

- Record of Decision







# Questions?



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