

## SITE DESIGNATION - STATUS REPORT

For information on completing and submitting this status report, refer to the instructions on reverse.

Date:	Lead Agency: <b>Department of Toxic Substances Control – Office of Geology</b>
Site Name/Address: <b>PG&amp;E Topock Compressor Station</b>	Project Manager Name: <b>Aaron Yue</b>
Resolution Number: <b>03/03</b>	Project Manager Phone Number: <b>(714) 484-5439</b>

### 1. **Date(s) of Consultative Meeting(s) and List of Attendees (Agency):**

In FY 09/10, the Department of Toxic Substances Control (DTSC) and the Consultative Work Group (CWG) conducted face-to-face meetings approximately once every three months and teleconference calls as frequently as the project warranted. Face-to-face CWG meetings were held on 7/15/09, 11/18/09, 3/17/10 & 6/16/10. The Geo/Hydro Technical Subcommittee (TWG) of the CWG also meets periodically. During this fiscal year, the TWG held face-to-face meetings on 9/28/09, 3/16/10 and 4/15/10. A Topock Leadership Partnership (TLP) meeting was held on 3/2/10. Clearinghouse Task Force meetings were held on 7/15/09, 9/21/09, 1/6/10, 3/16/10 and 5/11/10.

A list of attendees of the face-to-face meetings is provided as Attachment A. A list of all CWG Members and Tribal Representatives notified and invited to attend the CWG meetings is provided as Attachment B. A list of everyone notified and invited to attend Sub-committee meetings is provided as Attachment C.

Participants at the CWG meetings included members of local, state, and federal government stakeholder agencies as well as representatives from the Fort Mojave, Hualapai, and Colorado River Indian Tribes (CRITs). Each meeting agenda and minutes from previous consultative meetings were provided to all participants.

### 2. **Recent Public Comment/Participation:**

#### **Information Repositories and Topock Website**

Each quarter during FY 09/10, DTSC updated the DTSC Topock Project Website online Document Library with new or revised documents. Information Repositories were updated during early June 2010.

#### **Community Outreach**

- On July 16, 2009, DTSC published an Addendum to the 2007 Public Participation Plan. The Addendum updates the 2007 Plan and summarizes the results of the 2009 Community Survey.
- In July 2009, DTSC held a series of public meetings to inform community members about the cleanup process and status of environmental investigations to date at the Site. The public meetings were held on July 28, 2009 in Parker, Arizona and on July 30, 2009 in Topock, Arizona for the Golden Shores community. Flyers were distributed and notices were placed in local newspapers prior to the meetings. Informational handout materials, demonstration tools, and posters were available at the meetings. In addition, DTSC published a fact sheet in July 2009, title "PG&E Topock Environmental Investigation Update", which was sent to the communities surrounding Topock.
- DTSC distributed a fact sheet about the CMS/FS Report and the upcoming remedy selection process on February 26, 2010. The annual visit to the Topock Information Repositories was performed on March 1-2, 2010.
- On June 4, 2010, DTSC and the U.S. Department of the Interior (DOI) announced the availability of the Statement of Basis, the Draft Environmental Impact Report (EIR), and Proposed Plan, respectively for public review and comment. DTSC also distributed a fact sheet about the three documents and the public comment period which lasted from June 4, 2010 to July 19, 2010.
- DTSC and DOI jointly held public meetings/hearings on June 22, 2010 in Parker, AZ, June 23, 2010 in Lake Havasu City, AZ, June 29, 2010 in Needles, CA, and June 30, 2010 in Topock, AZ during the public comment period.

#### **Tribal Outreach**

- DTSC held community meetings for the Fort Mojave Indian Tribe on July 23, 2009; for the Chemehuevi tribe on July 29, 2009 in Havasu Lake, CA, and for the Colorado River Indian Tribes on September 1, 2009 in

Parker, AZ.

- Members of DTSC's CEQA team and EIR consultant met with tribal representatives throughout the fiscal year to discuss cultural resources and issues as part of the EIR fact-finding process under CEQA.
- On April 27, 2010, DTSC provided Advanced Draft EIR to Tribes and the TLP. DTSC met with the Fort Mojave Indian Tribe on 5/27/10 and the Hualapai Indian Tribe on 5/28/10.

### **Topock Site Mailing List Update**

The mailing list was updated in July 2009, October 2009, February 2010, and May 2010.

### **EIR**

DTSC worked on the Draft Programmatic Environmental Impact Report (EIR) to assess the potential environmental effects of the potential groundwater remedial components throughout the fiscal year. The EIR was released to the public for comment between June 4 and July 19, 2010.

### **Arizona Groundwater Study**

Arizona Groundwater sampling events (part of the Groundwater Monitoring Program) took place on: May 4-5, 2009, September 22 and 30, 2009, 3<sup>rd</sup> and 4<sup>th</sup> Quarters of FY 09/10. PG&E reported results to private property owners, Arizona Department of Environmental Quality (ADEQ), and DTSC on June 22, 2009, November 12, 2009, January 29, 2010 & May 6, 2010.

### **East Ravine Groundwater Investigation**

The well installation for the East Ravine groundwater investigation was completed on July 13, 2009. The contemporaneous round of groundwater sampling in the East Ravine wells was conducted on July 22, 2009.

### **3. Describe the Potential or Known Areas of Concern:**

DTSC continues to oversee PG&E in evaluating what is needed to protect the beneficial uses of the Colorado River.

From 1951 to 1964, untreated wastewater containing hexavalent chromium was discharged into an area known as the Bat Cave Wash (a dry steambed near the Colorado River). This resulted in a plume of hexavalent chromium contamination in the groundwater beneath the facility which now extends beneath the floodplain adjacent to the Colorado River. The groundwater plume extends under federal property, managed and overseen by the Department of the Interior.

In addition, there are small localized areas within or around the Topock Compressor Station where chromium, hexavalent chromium, and other compounds (such as other metals, semi-volatile organic compounds, asbestos), have been found in soils. These occurrences are related to disposal and handling practices when chromium was used at the site. DTSC anticipates that the localized areas of soil contamination will be addressed by PG&E in the Corrective Measures Study and final remedy.

Late 2009, PG&E conducted additional employee interviews regarding historic burn activities and waste disposal practices. Additional areas were identified during these interviews, and PG&E will evaluate these areas as part of the ongoing RFI/RI at the site.

### **4. Current Phase of Action:**

Activities during FY 09/10, included continuing progress on the soil RCRA Facility Investigation, the Groundwater Risk Assessment (GWRA), and the Groundwater Corrective Measures Study (CMS), as well as ongoing operation and maintenance of groundwater extraction, treatment and injection at the IM No. 3 facilities.

Additional activities during the third and fourth quarters of FY 09/10 included continuing progress on the AOC 4 Time Critical Removal Action (TCRA) which is being performed under order of the Department of the Interior, and completion of the Draft Environmental Impact Report. During the fourth quarter of FY 09/10, Soil Data Quality Objectives (DQOs) were developed as part of the soil RCRA Facility Investigation. DTSC drafted and released the groundwater Statement of Basis and EIR Fact Sheet on June 4, 2010.

### **5. Proposed Site Use (check the appropriate box[es]):**

Commercial/Industrial/Retail  Residential (single/Multi-family, Sale/rental product)

Park or Open Space  Schools, Hospitals Day Care Centers or Other Non-Industrial Sensitive Uses

**6. List any Technical Problems:**

N/A

**7. Permits Required/Issued to Date and Pending Permit Issues:**

None

**8. Deed Restriction/Land Use Control in Place?** Yes No

Effective Date: \_\_\_\_\_

**9. Engineering Controls (check applicable controls in place):**

	Air Sparging		Construct Landfill Cell	X	Fence Site		Remove Free Product
X	Capped Site		Containment Barrier	X	In Situ Treatment		Soil Vapor Extraction
	Consolidate and Cap		Dual Phase Extraction		Passive Venting		Treatment at Hookup
	Passive Vent under Structure		Enhanced Biodegradation		Monitored Natural Attenuation	X	Pump and Treat Groundwater

Vent Soil

OTHER (specify):

**10. Target Cleanup Levels/Current Contamination Levels:**

Remedial Action Objectives (RAOs) for groundwater contaminants were presented in the Groundwater CMS.

DTSC has identified 20 SWMUs, AOCs, and other undesignated areas recommended for further evaluation in the RFI. In addition, DTSC has identified 9 previously closed SWMUs and AOCs for additional investigation. Most of these SWMUs and AOCs are located within the fence line of the Topock Compressor Station. Ten of the 29 SWMUs, AOCs and other undesignated areas are located outside the compressor station fence line on PG&E and surrounding property. Constituents of potential concern include metals, volatile organic compounds, semi-volatile organic compounds, total petroleum hydrocarbons, and asbestos.

PG&E is implementing an Interim Measure (IM) consisting of groundwater extraction for hydraulic control of the plume boundaries in the Colorado River floodplain and management of extracted groundwater. The groundwater extraction, treatment, and injection systems, collectively, are referred to as Interim Measure Number 3 (IM No. 3). Currently, the IM No. 3 facilities include a groundwater extraction system (four extraction wells: TW-2D, TW-3D, TW-2S, and PE-1), conveyance piping, a groundwater treatment plant, and an injection well field for the discharge of the treated groundwater (two injection wells: IW-2 and IW-3).

**11. Ongoing Monitoring (specify timeframes and/or describe "Other"):**

Groundwater    Air    Other Specify: Colorado River Sampling and Monitoring

Groundwater monitoring occurs semiannually, quarterly, monthly, biweekly, and biennially, as follows:

- One hundred-nineteen monitoring wells are sampled biennially (every 2 years).
- One hundred-ten monitoring wells are sampled annually.
- Seventy-two monitoring wells are sampled semiannually (twice a year).
- Thirty-seven monitoring wells are sampled quarterly.
- Four shoreline surface water stations, two other surface water stations, and ten in-channel surface water stations are sampled quarterly (as well as monthly during winter low-river stage conditions).
- Two monitoring wells are sampled monthly during low-river stage conditions and two extraction wells on the floodplain are sampled monthly.

The frequencies noted above apply to the Topock groundwater and surface water monitoring program, and do not include other monitoring programs such as for the Interim Measure injection well field or for *in situ* pilot studies.

**Oversight Agency Costs Reimbursed to Date**

DTSC labor expenditure for July 2009 – June 2010: DTSC spent 9,582 hours with an oversight cost of \$1,364,348.52

**12. Additional Comments or Issues – add additional pages as needed**

(Continued from Section 4)

Specific activities during FY 09/10 to complete the RCRA Facility Investigation and Corrective Measures Study included the following:

## Groundwater

- DTSC worked aggressively with PG&E to finalize the Groundwater CMS Report by the end of the year under an accelerated schedule.
- CMS comments resolution was ongoing throughout the 1<sup>st</sup> quarter of FY 2009/10. Discussions between PG&E and DTSC to resolve comments occurred at each monthly RCRA/CERCLA meeting. On August 25, 2009, PG&E submitted Part 2 of the responses to DTSC's comments on the January 27, 2009 Groundwater CMS/FS Report. DTSC provided preliminary input on the responses on September 14, 2009. A comment resolution meeting was held on September 22, 2009.
- On December 18, 2009, DTSC approved the Final Groundwater CMS/FS for SWMU 1/AOC 1 and AOC 10 Report.
- On January 27, 2010, DTSC collected surface water samples from 5 locations at the Topock site.
- On January 26-27, 2010, DTSC performed a site survey to observe impacts from the January storm event.
- During the 1<sup>st</sup> quarter of FY 09/10, PG&E submitted responses to DTSC's comments on the Draft Groundwater Risk Assessment. On December 10, 2009, DTSC approved the final Groundwater Risk Assessment Report.
- On February 24, 2010, DTSC and DOI issued a letter providing direction to PG&E on the groundwater characterization requirements for the East Ravine and Compressor Station areas.
- Implementation of the groundwater and surface water monitoring program continued during FY 09/10. A major biennial monitoring event was conducted during the last two weeks of September 2009. Quarterly monitoring event was conducted during the week of December 7, 2009, March 8-18, 2010, and April 29 – May 6, 2010.
- On March 3, 2010, DTSC accepted PG&E's revised Groundwater Monitoring Report (GMP) sampling frequency.
- On June 2, 2010, DTSC directed PG&E to submit an implementation schedule for the repair of monitoring well MW-38S, which was damaged during the January storm event. PG&E submitted the implementation schedule on June 21, 2010 as directed.

## Soil

- On July 2, 2009, DTSC issued a letter responding to PG&E's September 2008 proposal for Part B. PG&E responded on August 3, 2009.
- Fieldwork in the East Ravine Investigation Area (AOC 10) was completed in July 2009. The results of this investigation will be presented as an appendix to the CMS/FS Report.
- On August 3, 2009, DTSC provided comments on the Soil Data Quality Objectives (DQOs) Technical Memorandum summarizing the DQOs for the soil program.
- On August 3, 2009, DTSC approved the Ecological Comparison Values for Organic Compounds Technical Memorandum #4. These values will be used in the soil data gaps study.
- On October 5, 2009, DTSC responded to PG&E's request to phase the Soil Part B investigation.
- On January 26, 2010, DTSC participated in the AOC 4 TCRA project initiation meeting.
- On March 10, 2010, DTSC issued a letter providing clarification of their comments on the December 2007 Draft RFI/RI Soil Investigation Work Plan Part B.
- On March 14, 2010, DTSC forwarded the Part A DQOs memorandum to the CWG and TWG.
- On March 16, April 21-22, April 27-28, and June 15, 2010, DTSC visited the AOC 4 Time Critical Removal Action project site and observed site activities.
- On April 30, 2010, PG&E submitted responses to comments on the Draft Part B Work Plan and approach to the Part B DQO to DTSC. DTSC provided comments on the Part B DQO approach to PG&E on June 3, 2010. On June 24, 2010, a teleconference meeting was held with PG&E to discuss comments and responses.

## Background

- On August 14, 2009, PG&E, in response to DTSC's directive letter on May 15, 2009, submitted the results of additional research on past burn activities at the compressor station.
- On November 16, 2009, DTSC approved the Final Background Study Steps 3 and 4: Revised Final Report of

Results.

#### Floodplain and Upland Insitu Pilot Tests

- PG&E continued post-test monitoring of the floodplain and upland *in situ* pilot tests during FY 09/10. PG&E submitted monitoring reports for the floodplain and upland *in situ* pilot tests on July 15, 2009, October 15, 2009, November 16, 2009, January 15, 2010 and April 15, 2010.

#### Draft Environmental Impact Report (EIR)

- DTSC issued letters requesting additional information needs for the draft Environmental Impact Report (EIR):
  - December 16, 2009, additional water supply information.
  - December 29, 2009, additional information for the project description.

#### Activities during FY 09/10 related to ongoing implementation of the Interim Measure included the following:

- Continuous operation of the Interim Measure groundwater extraction, treatment, and injection facility continued throughout FY 09/10. Periodic downtimes associated with optimization, maintenance, and repair occurred in conformance with permit conditions.
- PG&E completed required monitoring and reporting of treatment plant operations as required by the Colorado River Basin Regional Water Quality Control Board (Water Board) permit. Quarterly IM No. 3 Self Monitoring Reports were submitted on July 15, 2009, October 15, 2009., January 15, 2010 and April 15, 2010.
- Compliance Monitoring Program activities in the injection well field continued in conformance with DTSC and RWQCB requirements. Quarterly Groundwater Monitoring Report for the Interim Measure Compliance Monitoring Program at the Topock site was submitted on July 15, 2009. Semi-annual Groundwater Monitoring Report was submitted on January 15, 2010. DTSC conditionally approved PG&E's 2008 proposed modifications to the Compliance Monitoring Program.
- Performance Monitoring Program (PMP) activities in the Colorado River floodplain continued in FY 09/10. Quarterly IM Performance Monitoring (PMP) and Site-Wide Groundwater and Surface Water Monitoring (GMP) Reports were submitted to DTSC on May 29, 2009, November 30, 2009, March 15, 2010 and May 28, 2010.
- On July 14, 2008, PG&E proposed a modification to the extraction system for Interim Measures No. 3, which involves tie-in of well MW-20-130. DTSC's CEQA group is currently evaluating PG&E's project description for this proposal.

## INSTRUCTIONS FOR COMPLETING A STATUS REPORT

**GENERAL:** This Status Report form is for use in communicating to Cal/EPA the activities of the Administering Agency and Support Agencies with respect to site investigation and remedial action. A Status Report should be completed following the initial Consultative Work Group meeting. Subsequently, an annual report should be completed each year for the period ending June 30<sup>th</sup>. A Status Report should also be completed at the end of a designated project. Type or print clearly all requested information in the spaces provided and attach additional pages as necessary to explain or complete your responses. Mail the Status Reports to:

California Environmental Protection Agency  
1001 I Street, 25th Floor  
Site Designation Committee  
Sacramento, CA 95814

- 1. Date of Consultative Work Group Meeting and List of Attendees:** List date(s) of Consultative Work Group Meeting(s) that occurred during the year, including names of attendees followed by agency affiliation in parenthesis. If initial status report, attach summary of the first Consultative Work Group Meeting.
- 2. Recent Public Comment/Participation:** List documents received in the year subject to public comment or public meetings/hearings held and what you did to provide for public participation.
- 3. Describe Known or Potential Areas of Concern:** Describe the site investigative or remedial activities occurring at the site and issues for the year.
- 4. Current Phase of Action under the Site Designation Process**

List current phase of action corresponding to description provided below by assigning a number followed by an appropriate letter, if applicable (i.e. Work Plan Completed denote as level 3D).

<u>Number</u>	<u>Description</u>
1	Administering Agency Designated
2	First Consultative Meeting Completed
3	<u>Levels of Action</u> A - Preliminary Site Assessment Completed B - Site Investigation Completed C - Feasibility Study Completed D - Work Plan Completed E - Cleanup Alternative Selected and Authorized F - Design of Cleanup Alternative Selected G - Implementation of Cleanup Alternative (give % complete) H - Remediation Completed
4	Certificate of Completion Issued (after concurrence by other interested agencies).

- 5. Proposed Site Use:** Check the appropriate box or boxes which describe the planned use for the site:  
(1) Commercial/Industrial/Retail; (2) Residential (single/multi-family, sale/rental product); (3) Park or Open space;  
(4) Schools, Hospitals, Day Care Centers or Other Non-residential Sensitive Uses.
- 6. List any Technical Problems:** Describe any technical issues impeding site investigative or cleanup activities.
- 7. Permits Required/Issued to Date and Pending Permit Issues:** List any permits currently being required and/or issued by the Administering or Support Agency. List any permits currently pending approval and any requirements yet to be fulfilled by the Responsible Party.
- 8. Deed Restrictions/Land Use Controls:** Check applicable box and specify the date if the response is "yes."
- 9. Cleanup Levels:** Specify current contamination levels and proposed target cleanup levels for major contaminants.
- 10. Ongoing Monitoring:** Check the appropriate box(es) and/or specify any other type of ongoing monitoring that is in place. Specify approximate timeframes (using months/years) for monitoring, i.e., 11/06 – 1/10
- 11. Oversight Agency Costs Reimbursed to Date:** For the project, list agency, amount reimbursed followed by pending reimbursement in parenthesis, and brief description of services provided by each agency.
- 12. Additional Comments or Issues: If needed, attach additional sheets** to describe any important issues not previously addressed above such as issues discussed at last Consultative Work Group Meeting. In the event the project takes less than a year to complete, there need only be one report completed and submitted at the end of the project. Please attach a copy of any Certificate of Completion and/or closure letter issued when submitting the final report.

**PG&E Topock Compressor Station  
Annual Status Report July 2009 – June 2010**

**ATTACHMENT A - Dates of Meetings and List of Attendees (Agency)**

**July 15, 2009 – Consultative Work Group Face-to-Face Meeting**

**Attendees:** Department of Toxic Substances Control (DTSC) - Karen Baker, Aaron Yue, Jose Marcos, Mona Arteaga Bontty, Christina Fu, Mike Eichelberger, Susan Wilcox, Nancy Long (via telephone), Chris Guerre (via telephone), Lori Hare (via telephone); EDAW/AECOM (on behalf of DTSC) – Stev Weidlich, Jamie Cleland, Leslie Redford (via telephone); CA Regional Water Quality Control Board (RWQCB) – Cliff Raley (via telephone), Robert Perdue (via telephone); San Diego County Water Authority (SDCWA) - Denise M. Landstedt; Pacific Gas and Electric (PG&E): Dave Gilbert, Yvonne Meeks, Curt Russell, Glenn Caruso, Juan Jayo, Ken Wilson (consultant), Alona McClue (consultant); CH2M Hill on behalf of PG&E - Christina Hong, Martin Barackman; Lucas Advocates on behalf of PG&E - Robert Lucas; Arcadis on Behalf of PG&E - Lisa Cope, Lisa Kellogg, Lauren Young; U.S. Bureau of Land Management (BLM) - George Shannon, Mark Calamia, Becky Heick, Ramone McCoy, Michael Johnson (via telephone); U.S. Bureau of Reclamation (BOR) - Jeff Smith, Adam Wilson; U.S. Dept. of the Interior (DOI) - Casey Padgett, Melissa Derwart, Pamela Innis; U.S. Environmental Protection Agency (EPA) - Mitch Kaplan (via telephone); U.S. Fish and Wildlife Service (USFWS): Cindi Hall; Metropolitan Water District (MWD) - Bart Koch, Eric Fordham (Geopentech); Colorado River Indian Tribes (CRIT) - Nancy Shopay (Envirometrix), Norman Shopay (Envirometrix) (via telephone); FMIT - Luke Johnson, Michael Sullivan (Toxicologist), Steven McDonald (Law Office of Steven P. McDonald, LP), Courtney Coyle (Legal Rep.) (via telephone), Leo Leonhart (Hargis&Assoc.); Hualapai Indian Tribe - Peter Bungart (Circa Consulting)

**July 23, 2009 – DTSC Community Workshop for FMIT re: Clean-up Process and Summary of Environmental Investigations**

**Attendees:** Mojave - Nora McDowell-Antone, Linda Otero, Leo Leonhart (H&A), Sandra Woods Bricker, Felton Bricker, Sr., Marla Jenkins, Jeannete Otero, Mary Hole, Betty DeOcampe, Maryjo Jim, Tessie Soto, Suzanne Malson, Angie Alvarado and other Mohave community members

**July 28, 2009 – DTSC Community Workshop for CRITs re: Clean-up Process and Summary of Environmental Investigations**

**Attendees:** CRITs - Gary Hansen, Amanda Leivas-Sharpe, Charley Land; BOR - Brian Famer, Evan Smith, Jeff Smith, Ramone McCoy, Duncan Fisher; DOI - Pam Innis; BLM - Becky Heick, Mark Calamia; CH2M Hill – Christina Hong; ADEQ – Tom DiDorizio; Pkr. Pioneer – Joan Travis; BOS – Sandy Pierce

**July 29, 2009 – DTSC Community Workshop for Chemehuevi Tribe re: Clean-up Process and Summary of Environmental Investigations**

**Attendees:** Chemehuevi – Tito Smith, Dennis Fagundes, Charles Woods, Shirley Smith, Sierra Shaw, Raymond Robles; BLM: Becky Heick, Mark Calamia; Residents – Bradley Escobar, June Leivas

**July 30, 2009 – DTSC Community Workshop for CRITs re: Clean-up Process and Summary of Environmental Investigations (11:00 AM – 2:00 PM)**

**Attendees:** CRITs – Charley Land; PG&E – Curt Russell; CH2M Hill – Christina Hong; BOR – Jesse Smith, Evan Smith, Jeff Smith; BLM – Ramone McCoy, Mark Calamia; Residents – Paul Maxwell, Becky Bramlett, Patricia Colloran, Brill Trotter, Imogene Wright, Mike Moer

**July 30, 2009 – DTSC Community Workshop for CRITs re: Clean-up Process and Summary of Environmental Investigations (4:00 – 7:00 PM)**

**Attendees:** Amanda Leivas-Sharpe, Charles Land; BOR – Jeffery Smith, Jesse Smith, Evan Smith; PG&E – Curt Russell; CA Dept. of Fish & Game – Stefan Awender; Residents – Delores Purinton, Ron Wilson, Juanita Barcus, Rose Wian

**September 1, 2009 – DTSC Briefing for CRITs Tribal Council and Community Workshop for CRITs:**

**Attendees:** CRITs – Joyce P, Stewart Eddy, Dennis L., Doug Bonamici, Dale Howard, Fred Nelson, Geneva Sathwake, Daphne Hill-Poolaw, Theo Deha Roso, Charley Land, Julie Deysie

**September 28, 2009 – Geo/Hydro Technical Work Group Face-to-Face Meeting**

**Attendees:** DTSC - Chris Guerre, Karen Baker, Aaron Yue; EDAW/AECOM (on behalf of DTSC) – Bobbette Biddulph, Mark Capps (via telephone); RWQCB – Cliff Raley; PG&E – Yvonne Meeks, Curt Russell, Kevin Sullivan; CH2M Hill (on behalf of PG&E) – Brian Schroth, Martin Barackman, Mike Cavaliere, Julie Eakins (via telephone), Christina Hong (via telephone); Arcadis (on behalf of PG&E) – Frank Lenzo, Jim Harrington, Lisa Kellogg (via telephone); U.S. BOR – Jeffery Smith, Mohammad Nash; U.S. DOI –Rick Newill, Pamela Innis; U.S. Geological Survey (USGS) – Ken Stollenwerk, Dawn Peterson, Science Application International Corp. (SAIC); USFWS – Carrie Marr; MWD – Eric Fordham; CRITs – Lisa Swick, Gary Hansen, Charlie Land (via telephone); Fort Mojave Indian Tribe (FMIT) – Michael Sullivan, Nora McDowell-Antone (via telephone), Courtney Coyle (Legal), Leo Leonhart (Hargis & Assoc.)

**November 18, 2009 – Consultative Work Group Face-to-Face Meeting**

**Attendees:** DTSC - Karen Baker, Aaron Yue, Mona Arteaga Bontty, Christina Fu, Chris Guerre (via telephone), Laura Kaweski (via telephone), Lori Hare (via telephone); AECOM (on behalf of DTSC) – Stev Weidlich, Bobbette Biddulph, Addie Farrell; State Water Resource Control Board (SWRCB) – Tom Vandenberg; Colorado River Board of California (CRB): Lindia Liu (via telephone); PG&E - Bob Doss, Yvonne Meeks, Curt Russell, Glenn Caruso, Kevin Sullivan (via telephone); CH2M Hill on behalf of PG&E - Christina Hong; Lucas Advocates on behalf of PG&E - Robert Lucas; Arcadis on Behalf



of PG&E - Lisa Kellogg, Jim Harrington, Frank Lenzo (via telephone); US BLM – Cathy Wolff-White, Mark Calamia, Ramone McCoy, Craig Johnson, Ken Wilson (consultant); U.S. BOR - Jeff Smith, Mark Slaughter; U.S. DOI - Pamela Innis; US EPA - Mitch Kaplan (via telephone), Diane Trijillo (via telephone); US FWS - Carrie Marr; USGS – Ken Stollenwerk; MWD - Bart Koch, Eddie Rigdon; CRITs – Lisa Swick, Doug Bonamici; FMIT – Felton Bricker, Sr., Linda Otero, Steven McDonald & Chris Martin (Law Office of Steven P. McDonald, LP), Leo Leonhart (Hargis&Assoc.), Shawn Sellers (EPA), Michael Sullivan (via telephone); Hualapai Indian Tribe – Dawn Hubbs

### **January 6, 2010 – Clearinghouse Task Force Meeting**

**Attendees:** DTSC – Karen Baker, Mona Bontty, Christina Fu; PG&E, MWD; Hualapai – Loretta Jackson-Kelly, Dawn Hubbs, Win Wright; CRITs – Doug Bonamici

### **March 2, 2010 – Topock Leadership Partnership**

**Attendees:** DTSC - Maziar Movassaghi, Karen Baker, Nancy Long, Jeanette Sartain, Mona Arteaga Bontty, Christina Fu, Carolyn Yee, Stev Weidlich, DTSC Consultant (AECOM) on EIR; PG&E - Bob Howard, Pacific Gas and Electric - Dave Gilbert, Juan Jayo, Yvonne Meeks, Lisa Micheletti-Cope, PG&E Consultant (Arcadis); USDOJ – William Lodder, Pam Innis, Casey Padgett; BLM - Ramone McCoy, Raymond Suazo, Rebecca Heick; BOR – Val Thomas; CRWQCB – Robert Perdue; CRB – Abbas Amirteymoori; MWD – Bart Koch, Jim Green; FMIT - Timothy Williams, Nora McDowell-Antone, Linda Otero, Steven McDonald, Tribal Counsel, Courtney Ann Coyle, Attorney, Law, Leo Leonhart, Consultant; Hualapai – Ruby Steele, Loretta Jackson, Dawn Hubbs, Win Wright

### **March 16, 2010 – Geo/Hydro Technical Work Group Face-to-Face Meeting**

**Attendees:** DTSC – Karen Baker, Chris Guerre, Aaron Yue, Jose Marcos; MWD – Eric Fordham (by phone); PG&E – Bob Doss, Yvonne Meeks; PG&E Consultants (Arcadis) – Lisa Kellogg, Scott Potter (by phone), Jim Harrington (by phone), (Iris) - Adrienne LaPierre, (CH2M Hill) – Christina Hong, Keith Sheets, Martin Barackman (by phone), Mike Cavaliere (by phone), (Lucas Advocates) – Bob Lucas; USDOJ – Pam Innis, Rick Newill; USGS – Ken Stollenwerk, Peter Martin (by phone); USBOR – Val Vernier; FMIT – Nora McDowell-Antone (by phone); Hualapai – Dawn Hubbs, Win Wright

### **March 17, 2010 – Consultative Work Group Face-to-Face Meeting**

**Attendees:** DTSC - Karen Baker, Aaron Yue, Jose Marcos, Mona Arteaga Bontty, Christina Fu, Chris Guerre (via telephone), Nancy Long (via telephone), Carolyn Yee (via telephone), Lori Hare (via telephone); AECOM (on behalf of DTSC) – Stev Weidlich, Bobbette Biddulph, Addie Farrell; SWRCB – Tom Vandenberg; CRB: Abbas Amirteymoori (via telephone), Lindia Liu (via telephone); SDCWA – Denise Landstedt (via telephone); PG&E: Dave Gilbert, Bob Doss, Yvonne Meeks, Curt Russell, Glenn Caruso, Juan Jayo, Kevin Sullivan (via telephone); CH2M Hill on behalf of PG&E - Christina Hong, Gerald Vogt, Martin Barackman (via telephone), Frank Lenzo (via telephone); Lucas Advocates on behalf of PG&E - Robert Lucas; Arcadis on Behalf of PG&E - Lisa Kellogg, Lisa Cope; US BLM – Cathy Wolff-White, Mark Calamia, Ramone McCoy, George Shannon; U.S. BOR – Joe Liebhauser, Mark Slaughter, Valerie

Thomas; U.S. DOI - Pamela Innis, Casey Padgett; US FWS - Jean Calhoun, Carrie Marr; USGS – Ken Stollenwerk; MWD - Bart Koch, Eddie Rigdon; ADEQ – Dave Becker; CRITs – Lisa Swick, Doug Bonamici, Michael Tsosie; FMIT – Nora McDowell-Antone, Steven McDonald (Law Office of Steven P. McDonald, LP), Leo Leonhart (Hargis&Assoc.), Courtney Coyle (via telephone), Isadora Evanston (EPA); Hualapai Indian Tribe – Dawn Hubbs, Win Wright; Parker Indian Health Center – Isabel Espinosa

**April 15, 2010 – Conference Call Meeting with Hualapai, re: Advance Preview of DTSC’s Proposed Cleanup Decision for Groundwater**

**Attendees:** DTSC – Karen Baker, Aaron Yue, Chris Guerre, Nancy Long, Christina Fu, Carolyn Yee; Hualapai – Loretta Jackson-Kelly, Dawn Hubbs, Win Wright

**April 15, 2010 – Geo/Hydro Technical Work Group Conference Call Meeting**

**Attendees:** DTSC – Chris Guerre, Aaron Yue; PG&E – Yvonne Meeks, Kevin Sullivan, Curt Russell; PG&E Consultants – (Arcadis) – Frank Lopez, (CH2M Hill) – Christina Hong, Mike Cavaliere; Geopentech for MWD – Eric Fordham; USDOI – Pam Innis, Rick Newill; USGS – Peter Martin; CRITs - Doug Bonamici, Charley Land; FMIT – Nora McDowell-Antone, Leo Leonhart, Courtney Coyle; Hualapai – Win Wright

**May 11, 2010 – Clearinghouse Task Force Meeting**

**Attendees:** DTSC – Karen Baker, Mona Arteaga-Bontty; DOI – Pam Innis; Hualapai – Dawn Hubbs; MWD – Bart Koch, Eddie Rigdon; PG&E - Dave Gilbert, Yvonne Meeks, Lisa Micheletti-Cope, Christina Hong, Lisa Kellogg ; FMIT - Nora McDowell-Antone

**May 27, 2010 – Meeting with FMIT Tribal Council, re: Draft Statement of Basis, and Draft EIR for Proposed Groundwater Remedy**

**Attendees:** DTSC: Karen Baker, Aaron Yue, Mona Bontty, Carolyn Yee; AECOM – Steve Heipel, Stev Weidlich, Andee Leisy (RTMM); FMIT – Timothy Williams, Shan Lewis, Linda Otero, Nora McDowell-Antone, Courtney Coyle, Leo Leonhart

**May 28, 2010 – Meeting with Hualapai Tribal Council, re: Draft Statement of Basis, and Draft EIR for Proposed Groundwater Remedy**

**Attendees:** DTSC: Karen Baker, Aaron Yue, Mona Bontty, Carolyn Yee; AECOM – Steve Heipel, Stev Weidlich; Hualapai Tribal Council, DOI, BLM

**June 16, 2010 – Consultative Work Group Face-to-Face Meeting**

**Attendees:** DTSC - Karen Baker, Aaron Yue, Carolyn Yee (via telephone), Mona Arteaga Bontty, Christina Fu (via telephone), Chris Guerre (via telephone), Lori Hare (via telephone); AECOM - Addie Farrell, Stev Weidlich; SWRCB - Tom Vandenberg; CRB - Abbas Amirteymoori (via telephone), Lindia Liu (via telephone); PG&E - Bob Doss, Yvonne Meeks, Glenn Caruso; CH2M Hill on behalf of PG&E - Christina Hong; Lucas Advocates on behalf of PG&E - Robert Lucas; Arcadis on Behalf of PG&E - Lisa Kellogg; U.S. BLM - Cathy Wolff-White, Mark Calamia, Ramone McCoy; U.S. DOI - Pamela Innis; MWD – Bart Koch; CRITs - Doug Bonamici; FMIT - Isadora Evanston, Leo Leonhart (Hargis&Assoc.), Nora McDowell-Antone (via telephone); Hualapai Indian Tribe - Dawn Hubbs, Win Wright

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**ATTACHMENT B – Consultative Work Group Members and Tribal  
Representatives Notified and Invited to Consultative Work Group Meetings**

**July 15, 2009 - Consultative Work Group Face-To-Face Meeting**

**Notified and Invited:** Arizona Department of Environmental Quality (ADEQ); California Department of Fish & Game (DFG); California Regional Water Quality Control Board (CRWQCB); Chemehuevi Indian Tribe; Cocopah Indian Tribe; Colorado River Board of California (CRB); Colorado River Indian Tribes (CRIT) and their consultant Envirometrix; Department of Toxic Substances Control (DTSC) and their consultants EDAW; Fort Mojave Indian Tribe (FMIT) and their consultants Law Office of Steven P. McDonald, LC; Held-Palmer House, & Hargis & Associates (H&A); Fort Yuma-Quechan Indian Tribe; Hualapai Indian Tribe; Metropolitan Water District (MWD) and their consultant Geopentech; Mojave County Department of Public Health (DPH); Office of Historic Preservation (OHP); Pacific Gas & Electric Company (PG&E) and their consultants Latham & Watkins, Lucas Advocates, CH2M Hill, & Arcadis; Parker Indian Health Service (IHS); San Diego County Water Authority (SDCWA); Senator Feinstein’s Office; State Water Resource Control Board (SWRCB); Twenty-Nine Palms Indian Tribe; US Bureau of Land Management (USBLM) and their consultant Science Application International Corp. (SAIC); U.S. Bureau of Reclamation (US BOR); U.S. Department of the Interior (US DOI); US Environmental Protection Agency (USEPA); U.S. Fish and Wildlife Service (USFWS); US Geological Survey (USGS)

**November 18, 2009 - Consultative Work Group Face-To-Face Meeting**

**Notified and Invited:** ADEQ; CA DFG; CRWQCB; Chemehuevi Indian Tribe; Cocopah Indian Tribe; CRB; CRITs and their consultant Envirometrix; DTSC and their consultants AECOM; FMIT and their consultants Law Office of Steven P. McDonald, LC; Held-Palmer House, & H&A; Fort Yuma-Quechan Indian Tribe; Hualapai Indian Tribe; MWD and their consultant Geopentech; Mojave County DPH; OHP; PG&E and their consultants Latham & Watkins, Lucas Advocates, CH2M Hill, & Arcadis; Parker IHS; SDCWA; Senator Feinstein’s Office; SWRCB; Twenty-Nine Palms Indian Tribe; USBLM and their consultant SAIC; US BOR; US DOI; USEPA; USFWS; USGS

**March 17, 2010 – Consultative Work Group Face-To-Face Meeting**

**Notified and Invited:** ADEQ; CA DFG; CRWQCB; Chemehuevi Indian Tribe; Cocopah Indian Tribe; CRB; CRITs; DTSC and their consultants AECOM; FMIT and their consultants Law Office of Steven P. McDonald, LC; Held-Palmer House, & H&A; Fort Yuma-Quechan Indian Tribe; Hualapai Indian Tribe; MWD and their consultant Geopentech; Mojave County DPH; OHP; PG&E and their consultants Latham & Watkins, Lucas Advocates, CH2M Hill, & Arcadis; Parker

IHS; SDCWA; Senator Feinstein's Office; SWRCB; Twenty-Nine Palms Indian Tribe; USBLM and their consultant SAIC; US BOR; US DOI; USEPA; USFWS; USGS

**June 16, 2010 – Consultative Work Group Face-To-Face Meeting**

**Notified and Invited:** ADEQ; CA DFG; CRWQCB; Chemehuevi Indian Tribe; Cocopah Indian Tribe; CRB; CRITs; DTSC and their consultants AECOM; FMIT and their consultants Law Office of Steven P. McDonald, LC; Held-Palmer House, & H&A; Fort Yuma-Quechan Indian Tribe; Hualapai Indian Tribe; MWD and their consultant Geopentech; Mojave County DPH; OHP; PG&E and their consultants Latham & Watkins, Lucas Advocates, CH2M Hill, & Arcadis; Parker IHS; SDCWA; Senator Feinstein's Office; SWRCB; Twenty-Nine Palms Indian Tribe; USBLM and their consultant SAIC; US BOR; US DOI; USEPA; USFWS; USGS

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**ATTACHMENT C – Technical Hydrogeologic/Geo-Hydro Work Group  
Members and Tribal Representatives Notified and Invited to Technical  
Hydrogeological/Geo/Hydro Meetings and Other Meetings**

**September 28, 2009 – Geo/Hydro Technical Work Group Face-to-Face Meeting**

**Notified and Invited:** Arizona Department of Environmental Quality (ADEQ); California Department of Fish & Game (DFG); California Regional Water Quality Control Board (CRWQCB); Chemehuevi Indian Tribe; Cocopah Indian Tribe; Colorado River Board of California (CRB); Colorado River Indian Tribes (CRIT) and their consultant Envirometrix; Department of Toxic Substances Control (DTSC) and their consultants EDAW; Fort Mojave Indian Tribe (FMIT) and their consultants Law Office of Steven P. McDonald, LC; Held-Palmer House, & Hargis & Associates (H&A); Fort Yuma-Quechan Indian Tribe; Hualapai Indian Tribe; Metropolitan Water District (MWD) and their consultant Geopentech; Mojave County Department of Public Health (DPH); Office of Historic Preservation (OHP); Pacific Gas & Electric Company (PG&E) and their consultants Latham & Watkins, Lucas Advocates, CH2M Hill, & Arcadis; Parker Indian Health Service (IHS); San Diego County Water Authority (SDCWA); Senator Feinstein's Office; State Water Resource Control Board (SWRCB); Twenty-Nine Palms Indian Tribe; US Bureau of Land Management (USBLM) and their consultant Science Application International Corp. (SAIC); U.S. Bureau of Reclamation (US BOR); U.S. Department of the Interior (US DOI); US Environmental Protection Agency (USEPA); U.S. Fish and Wildlife Service (USFWS); US Geological Survey (USGS)

**January 6, 2010 – Clearinghouse Task Force Meeting**

**Notified and Invited:** CRITs, DOI, DTSC, FMIT, Hualapai, MWD, PG&E & their consultant CH2M Hill

**March 2, 2010 – Topock Leadership Partnership Face-To-Face Meeting**

**Notified and Invited:** Tribal Leaders: Chemehuevi, Cocopah, CRITs, FMIT, Fort Yuma-Quechan, Havasupai, Hualapai, Torres-Martinez, Twenty-Nine Palms, Yavapai-Prescott; Government Leaders: CRWQCB, CRB, DOI, DTSC and their consultant AECOM, MWD, PG&E

**March 16, 2010 – Geo/Hydro Technical Work Group Face-To-Face Meeting**

**Notified and Invited:** ADEQ; CA DFG; CRWQCB; Chemehuevi Indian Tribe; Cocopah Indian Tribe; CRB; CRITs; DTSC and their consultants AECOM; FMIT and their consultants Law Office of Steven P. McDonald, LC; Held-Palmer House, & H&A; Fort Yuma-Quechan Indian Tribe; Hualapai Indian Tribe; MWD and their consultant Geopentech; Mojave County DPH; OHP; PG&E and their

consultants Latham & Watkins, Lucas Advocates, CH2M Hill, & Arcadis; Parker IHS; SDCWA; Senator Feinstein's Office; SWRCB; Twenty-Nine Palms Indian Tribe; USBLM and their consultant SAIC; US BOR; US DOI; USEPA; USFWS; USGS

**April 15, 2010 – Geo/Hydro Technical Work Group Conference Call Meeting**

**Notified and Invited:** ADEQ; CA DFG; CRWQCB; Chemehuevi Indian Tribe; Cocopah Indian Tribe; CRB; CRITs; DTSC and their consultants AECOM; FMIT and their consultants Law Office of Steven P. McDonald, LC; Held-Palmer House, & H&A; Fort Yuma-Quechan Indian Tribe; Hualapai Indian Tribe; MWD and their consultant Geopentech; Mojave County DPH; OHP; PG&E and their consultants Latham & Watkins, Lucas Advocates, CH2M Hill, & Arcadis; Parker IHS; SDCWA; Senator Feinstein's Office; SWRCB; Twenty-Nine Palms Indian Tribe; USBLM and their consultant SAIC; US BOR; US DOI; USEPA; USFWS; USGS

**May 11, 2010 – Clearinghouse Task Force Meeting**

**Notified and Invited:** CRITs, DOI, DTSC, FMIT, Hualapai, MWD, PG&E & their consultant CH2M Hill