



**California Environmental Protection Agency  
Department of Toxic Substances Control, Region 4  
1011 North Grandview Avenue, Glendale, CA 91201**

## **PUBLIC PARTICIPATION PLAN**

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**Pacific Gas and Electric Company  
Topock Gas Compressor Station  
15 miles southeast of Needles, California**

**June 9, 1998**

Approved by:

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**Martin Prisco  
Public Participation Specialist  
Department of Toxic Substances Control  
1011 N. Grandview Avenue  
Glendale, CA 91201**

**Submitted and Prepared by:  
Pacific Gas and Electric Company  
77 Beale Street  
San Francisco, CA 94177**

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**PUBLIC PARTICIPATION PLAN  
PACIFIC GAS AND ELECTRIC COMPANY  
TOPOCK GAS COMPRESSOR STATION  
(15 miles southeast of Needles, California)**

**1.0 INTRODUCTION**

The California *Department of Toxic Substances Control* (DTSC) prepared this *Public Participation Plan* to involve the public in DTSC regulatory activities at the *Pacific Gas and Electric Company* (PG&E) Topock Gas Compressor Station (Facility), near Needles, California (Figures 1 and 2). PG&E will implement the plan under the direct oversight of DTSC. The plan describes how community members can participate in the decision process regarding the implementation of a *hazardous waste* investigation and possible clean-up measures at the site. This decision process is also referred to as *Corrective Action*. This plan also summarizes the results of a community survey and describes how some community members wish to be informed about activities at the site. Italicized words are defined in the glossary, Appendix D.

The Topock Gas Compressor Station is located in eastern San Bernardino County, about 15 miles southeast of Needles and south of Freeway I-40. The Facility occupies approximately 100 acres, is within a half-mile of the Colorado River and near the Havasu National Wildlife Refuge. The results of a soil investigation submitted to DTSC indicated possible hazardous substance contamination at the compressor station, including an area called Bat Cave Wash. In the 1950s and 1960s, cooling tower wastewater containing *hexavalent chromium* was discharged to Bat Cave Wash. The *Resource Conservation and Recovery Act* (RCRA) *Facility Investigation* (RFI) study will include investigating this area, clean-up if necessary, and monitoring during and after clean-up.

A key component of this Public Participation Plan (PPP) is input from local residents and officials. The PPP also includes a description of the procedures used to inform the local community of ongoing and planned activities at the site and to respond to inquiries from concerned members of the community. The preparation of the PPP is part of a Consent Agreement between DTSC and PG&E for a corrective action program. (See Section 3.0.) DTSC is mandated by federal and state

law to provide opportunities for community members to comment on and provide input to decisions regarding the implementation of site *corrective action measures*. Addresses and telephone numbers for DTSC project contacts are listed in Appendix C.

The PPP is a supporting document of the RCRA Corrective Action Program for the Topock Gas Compressor Station site. Section 3.0 provides an overview of the corrective action activities that are planned for the site. This PPP also presents an approach for additional public participation activities to be conducted for the project.

## **2.0 SITE HISTORY**

The Topock Gas Compressor Station, which began operation in 1951, compresses natural gas for transportation through pipelines to PG&E's service territory in Central and Northern California. As natural gas is compressed, its temperature increases and the compressed gas must be cooled in two cooling towers before it is transported through the pipelines. From 1951 to 1985, PG&E added a chromium-based substance to the water in the cooling towers to prevent corrosion of the cooling tower equipment. During the 1950s and 1960s, untreated cooling tower wastewater containing hexavalent chromium was discharged into the Bat Cave Wash area, which is normally a dry stream bed that feeds into the Colorado River. The *RCRA Facility Assessment* (RFA) for the site states that from 1951 to 1969 approximately six million gallons per year of untreated cooling tower wastewater containing potentially hazardous levels of hexavalent chromium-based corrosion inhibitors were discharged into the Bat Cave Wash area. In the mid-to-late 1960s, PG&E began treating the cooling tower wastewater to convert hexavalent chromium to *trivalent chromium*. PG&E switched to a more environmentally safe *phosphate* additive in 1985.

## **3.0 DESCRIPTION OF THE CORRECTIVE ACTION PROGRAM**

The Corrective Action Program is contained in the RCRA of 1980, and the Hazardous and Solid Waste Amendments of 1984, which were developed to regulate generators of hazardous waste

and hazardous waste treatment, storage and disposal facilities. The corrective action process is designed to evaluate the nature and extent of releases of hazardous substances at a site. The process also identifies, develops and implements appropriate corrective measures to protect public health and the environment.

In 1987, an RFA was prepared for the Topock site as part of the corrective action process. An RFA is an assessment to determine whether or not potentially hazardous substances exist in soils or groundwater at or near a facility. Additional investigations and clean-up activities were conducted at the Facility between 1987 and 1995. In 1988, one study included shallow soil sampling in the Bat Cave Wash in the vicinity of the former wastewater discharge area. This study concluded that chromium concentrations were found to be low at these shallow depths and did not pose a significant threat to the environment. As part of the first phase of the RFI that began in 1997, additional sampling at greater depths was conducted in the Bat Cave Wash which showed chromium was present near the former discharge. All sample analysis results will be evaluated and discussed in the RFI report.

Another activity conducted during 1993-1994 included the clean-up and closure of four original *evaporation ponds* that were used for holding wastewater until it evaporated. The remaining sludge and contaminated soil was removed from the ponds. Although groundwater beneath the ponds was found not to be contaminated, additional groundwater monitoring was initiated at other locations onsite in the late 1980s and will continue for the foreseeable future. The results of soil samples and additional groundwater investigations required by the RFI are expected in late 1998.

In 1996, PG&E and DTSC entered into an agreement to conduct an investigation at the Topock site based on the corrective action process of RCRA. PG&E submitted to DTSC: (1) a report summarizing activities at the Bat Cave Wash and surrounding area, and (2) a workplan outlining planned investigative activities. At this time, PG&E also submitted a public involvement plan and began working with DTSC on assessing community interest and public participation requirements.

As part of this agreement, PG&E began conducting an RFI in April 1997. The RFI involves the following: soil sampling and analysis in the Bat Cave Wash area and other areas; installation of groundwater monitoring wells; groundwater sampling and analysis; and surface water sampling. The investigation will culminate with an RFI Report, summarizing the results of the field work, which is overseen by DTSC.

PG&E will take appropriate corrective measures at the Topock site based upon the findings of the RFI and DTSC requirements. If necessary, *Interim Measures*, or IMs, would be implemented by PG&E during and following the RFI to control known contamination and to reduce the potential risk to human health and the environment from impacted soil or groundwater.

If corrective action is appropriate, PG&E will submit a *Corrective Measures Study (CMS)* to propose remedial or clean-up options for the site. DTSC will review the study, receive public comment on the proposed remedial selection, and select options for implementation. PG&E will implement the plan and issue a report for DTSC review and approval.

#### **4.0 BACKGROUND**

This section includes a profile of the community surrounding the Facility, a summary of past community involvement, and identification of community concerns related to the site.

##### **4.1 SURROUNDING COMMUNITIES**

The following list of communities is intentionally broad in order to give consideration to all communities in the region that might have interest in the project. Thus the list includes some communities well beyond the one-mile radius from the Facility that is required by DTSC. The communities are found in California, Arizona and Nevada (see Area Map, Figure 1).

The nearest dwellings are two mobile home parks: Topock, Arizona, located about one-half mile east-northeast of the facility, and Park Moabi, California, located about one mile northwest of the facility. A third community, Golden Shores, Arizona, is located about eight miles north of the Facility.

The land within one mile of the Facility boundary includes industrial, recreational and wildlife management uses. The industrial site is the PG&E Topock Gas Compressor Station. Recreational facilities are located at the Topock mobile home community and Park Moabi. The Havasu National Wildlife Refuge is located along the banks of the Colorado River near the Facility.

Three Indian reservations are among the communities that may have some interest in the work conducted by PG&E: the Fort Mojave, Chemehuevi and Colorado River Indian Reservations. All three have decreed water rights to the Colorado River and are allocated annual water resources.

**The Fort Mojave Indian Reservation:** The Fort Mojave Indian Reservation is located about 20 miles north of the Facility, along the Interstate-40 corridor at the tri-state junction. It is comprised of 23,669 acres in Arizona, 12,633 acres in California and 5,582 acres in Nevada, and is traversed by the Colorado River. Tribal population totals 1,025. Old Fort Mojave is in the northern part of the reservation. The Mojave Tribe's principal economic activities are agricultural, tourism and development of land and water resources. The tribe operates two casino/hotels in the state of Nevada. The tribal government is administered by a Tribal Council of nine elected officials, including a Chairman and Vice Chairman. The Tribal Council reviews and makes final decisions on all issues related to the reservation.

**The Chemehuevi Indian Reservation:** The Chemehuevi Indian Reservation is located on 30,651 acres near the Chemehuevi Mountains and along the western side of Lake Havasu, including 30 miles of shoreline in California. It is about 25 miles south of the Facility. The economic activity base is tourism. The tribe owns and operates a casino and resort on the western shores of the lake. The tribe also maintains a small landing strip that accommodates small aircraft. The tribal

community village maintains housing for its 550 members, along with a community center, playground, a school, a non-denominational chapel and an Indian Health Clinic. The tribal government is administered by a Tribal Council of nine elected officials, including a Chairman. The Tribal Council reviews and makes final decisions on all issues related to the reservation.

**The Colorado River Indian Reservation:** The Colorado River Indian Reservation is located on 269,921 acres on both sides of the Colorado River, about 35 miles south of the Facility. The principal economic activities are farming and recreation. Crops include cotton, alfalfa, wheat, feed grain, lettuce and melons. Recreation includes hunting and river water sports. With a total population of 3,200, the reservation consists of four tribal groups, with distinct languages, cultures and traditions: Mojave, Chemehuevi, Navajo and Hopi. The Mojave and Chemehuevi tribes first lived on the land before it became a reservation. In 1945, the Bureau of Indian Affairs relocated the Navajo and Hopi there from their reservations in northeastern Arizona. The tribal government is administered by a Tribal Council of nine elected officials, including a Chairman. The Tribal Council reviews and makes final decisions on all issues related to the reservation.

In **California**, there are Park Moabi and the City of Needles. Park Moabi is primarily a recreational facility with trailer homes, camping units and a boat marina, located on a side channel of the Colorado River, approximately one mile west of the river's main channel. The homes are used primarily as weekend residences. The City of Needles, near the borders of three states (California, Arizona and Nevada) has a population of approximately 6,500 people. Needles is located about 15 miles northwest of the Facility on Interstate 40 on the west side of the Colorado River. Needles' economy relies on the operations of the Burlington Northern Santa Fe Railroad and tourism. Several small businesses are located in the area; these and related service industries provide jobs to residents of Needles and nearby communities. The city has a number of active civic associations and business organizations.

In **Arizona**, nearby communities include Topock, Golden Shores, Lake Havasu City and Parker. Topock is a community of about 20 persons in a small mobile home park near the Golden



Shores Marina, on the eastern bank of the Colorado River. The residents rely on Golden Shores and surrounding communities for their commercial and educational needs. Most of the residents are retired senior citizens who live in the area part of the year, from late fall through spring. Some of the residents travel to work in the neighboring communities.

Golden Shores is a small community of about 800 homes (population 1,200) in Mojave County, approximately eight miles north of the Golden Shores Marina on the east side of the Colorado River. Its demographics are similar to those of Topock and Park Moabi. Golden Shores includes small businesses, a fire station, a post office and an elementary school. High schools are located in the surrounding communities of Parker, Lake Havasu City and Needles. Golden Shores has an active Chamber of Commerce and Women's Club. A Civic Center, built within the last five years, is the hub of community activity. This center houses a Chamber of Commerce and serves as a regular meeting site for several local associations.

Lake Havasu City is located on the east shore of Lake Havasu on the Colorado River, about 25 miles south of the Facility. With a population of 34,350, it is the largest population center of southern Mojave County, one of the fastest growing counties in the United States. Tourism and recreation are the city's principal economic activities. The city was founded by the McCulloch Corporation.

Parker is located in La Paz County, Arizona, on the eastern side of the Colorado River, about 20 miles south of Lake Havasu City (see Area Map in Figure 1) and about 60 miles south of the Facility. It is almost completely surrounded by the Colorado River Indian Reservation. Agriculture, tourism and water recreation sports form the basis of its economy. The community of 2,900 has an elementary, junior high and high school. It also maintains its own safety and fire services, and operates a hospital.

## 4.2 HISTORY OF COMMUNITY INVOLVEMENT

In May 1997, a survey letter and a questionnaire were sent to a list of community members identified by DTSC. Five interviews also were completed in May and June 1997 as a follow-up to the survey. The responses to the survey and the interviews indicate little knowledge of the investigation and potential clean-up activities at the site. The implementation of this Public Participation Plan will address concerns that have been expressed and provide opportunities for public involvement. The level of community concerns are summarized in Section 4.3.

## 4.3 COMMUNITY CONCERNS

A community assessment, including both survey questionnaires and interviews, was conducted by DTSC with PG&E's assistance. The survey letter and questionnaire were mailed to approximately 112 individuals and organizations. These included residents, property owners, Native American tribes, news media, water agencies, local, state and federal agencies, and elected officials. Five follow-up interviews were held. Based on the information collected from the questionnaires and during these interviews, there is a level of concern about the Corrective Action Program at the PG&E site. A copy of the survey questions are provided in Appendix B.

Specifically, there are two major categories of concern: communication and health.

### 4.3.1 Communication Concerns

Most of those surveyed and interviewed are concerned about receiving information on the current and upcoming activities at the PG&E facility. It appears that there is a low level of knowledge about the current and planned site activities. Understanding these concerns, a fact sheet on the investigation at the Topock Compressor Station was planned, developed and is now available to the public. The widespread locations of interested communities suggest that documents should be made available at several local *information repositories*, so that more community members could be

informed about the project. With this in mind, five information repositories have been established in Needles, Topock, Lake Havasu City, the Chemehuevi Indian Reservation, and at the DTSC office in Glendale. See section 5.1.1 for specific locations.

#### 4.3.2 Health Concerns

Generally, those surveyed and interviewed expressed a desire to be kept current on site activities, particularly if they might impact the health of the community. Nearly all who responded to the questionnaire or were interviewed were concerned about the possible effects of water contamination. Specific concerns from a water district representative included possible groundwater or surface water contamination. Some expressed concern about possible contamination of drinking water wells in the area. One community member asked questions about the potential risk to human health from wading in the Colorado River directly across from the site.

Although chromium has been detected in soil and groundwater at the Topock site, the groundwater wells sampled are not used for any beneficial purpose, and samples of the Colorado River have not detected chromium. Under the consent agreement, PG&E is conducting a comprehensive investigation. If warranted, DTSC will direct PG&E to take appropriate corrective measures at the Topock site based upon the findings of the RFI and DTSC requirements.

#### 4.3.3 Environmental Concerns

One environmental concern voiced by an interviewee was about the possible impacts to the Topock Gorge, located approximately eight miles down the Colorado River from the Facility. If needed, appropriate corrective measures at the Facility will be taken by PG&E based upon the findings of the RFI as directed by the DTSC.

#### 4.3.4 Other Concerns

One person expressed a preference for a quick clean-up, if necessary.

### **5.0 PUBLIC PARTICIPATION PROGRAM**

The Public Participation Program has been and will continue to be implemented to provide opportunities for the public to learn about environmental activities at the site and to have input into final clean-up decisions. The specific community concerns as outlined above will be considered and addressed in fact sheets, which will be distributed as determined by the DTSC during the RFI and IM implementation phases. Fact sheets will continue to be utilized as an effective means of keeping the community informed of progress at the site.

#### 5.1 PUBLIC PARTICIPATION TECHNIQUES

The following is a description of the activities to be conducted as part of DTSC's Public Participation Program. All public participation materials prepared by PG&E will be reviewed and approved by a DTSC Public Participation Specialist.

##### 5.1.1 Information Repositories

Information repositories have been established to provide convenient local access to this Public Participation Plan, various reports, fact sheets and other significant project documents generated during the investigation and remediation phases of the site.

Based upon a community assessment performed by PG&E and reinforced by community requests, DTSC directed PG&E to establish five information repositories to serve all the communities interested in site activities. The current locations of the information repositories are:

Department of Toxic Substances Control  
Glendale, California  
Contact: Joan Barrio  
(818) 551-2886  
8am - 5pm, Monday - Friday

Needles Library  
Needles, California  
Contact: Barbara Guhin  
(760) 326-9255  
10am - 6pm, Monday and Tuesday  
10am - 5pm, Thursday and Saturday

Chemehuevi Indian Reservation  
Havasu Lake, California  
Contact: Matthew Leivas, Sr.  
(760) 858-1116  
7:30am - 4pm, Monday - Friday

Golden Shores / Topock Library Station  
Topock, Arizona  
Contact: Lois Slater  
(520) 768-2235 (fax answers when closed)  
2pm - 7pm, Monday  
8am - 1pm, Tuesday and Thursday

Mojave County Library  
(Charles C. Royall Memorial Library)  
Lake Havasu City, Arizona  
Contact: Bonnie Campbell  
(520) 453-0718  
9am - 5pm, Mon, Wed, Fri and Sat  
9am - 8pm, Tuesday and Thursday

### 5.1.2 Fact Sheets

DTSC will oversee the preparation and dissemination of fact sheets for the PG&E site. These fact sheets will be mailed to all individuals on the site mailing list.

The first fact sheet (Appendix E), prepared for and reviewed by DTSC, details the implementation of the investigation workplan to inform the public of the investigation field work, planned site activities and the establishment of the local information repositories and availability of technical and public participation documents. The second fact sheet will be prepared after the RFI Report is completed. The RFI fact sheet will include a description of the project background and site history, a summary of the results of the RFI Report, a synopsis of planned project tasks and public involvement opportunities. All fact sheets will include a description of the repositories and their locations, and names, addresses and phone numbers of contacts at DTSC and PG&E for more information. If clean-up is necessary, a third fact sheet will be prepared to describe the draft remedy selection in the Corrective Measures Study. Additional fact sheets will be prepared if warranted by activities at the site.

### 5.1.3 Community Meetings

During the interviews, the community members as a whole did not request that a special meeting be held during the field investigation. If requested by the public and if DTSC determines it as necessary, a public meeting could be held to present the recommended remedial action and to respond to public comments and questions on a draft remedy selection in the CMS. Such a meeting could be complemented by an Open House. As appropriate, local officials would be briefed about the meeting's purpose and agenda in advance. Questions and comments presented during the meeting would be summarized, analyzed and addressed by DTSC for the final CMS, as appropriate. The locations most frequently mentioned for community meetings were public schools, auditoriums or government-owned buildings in neighboring communities.

### 5.1.4 Public Notice and Public Comment Period for Interim Measures and Corrective Measures

If Interim Measures (IMs) are deemed necessary at any time throughout the corrective action process, a public comment period would be scheduled for both the planned IMs and the proposed environmental review. A public notice posted at the Facility, a public notice newspaper advertisement and 45-day public comment period are required for the environmental review document and any planned IM. A public hearing is not required. However, one would be held at the discretion of DTSC if there is sufficient public interest.

If it is determined that a CMS is necessary, and a draft remedy selection is prepared as part of the CMS, then a public notice would be prepared to announce a 45-day public comment period on the draft remedy selection and environmental review. A public hearing is not required. However, one would be held at the discretion of DTSC if there is sufficient public interest.

The public notice would be posted at the Facility at the beginning of the 45-day public comment period and it would also be published in a display advertisement printed in the local news

sections of two local newspapers: the Mojave Valley Daily News and the Needles Desert Star. In addition, public notices could be published in tribal newsletters or in tribal communications.

#### 5.1.5 Response to Comments (RTC)

All public comments received will be summarized and considered for inclusion in DTSC's final decision on a draft remedy selection in the CMS Report. Responses to those comments will be written, and a summary of all comments and responses will be distributed, along with DTSC's final determination, to those who comment or request a copy of the Response to Comments document. The RTC also will be placed in the information repositories. See section 5.1.1 for a listing of the repositories.

#### 5.1.6 Mailing List

DTSC has maintained and will continue to maintain a mailing list of all persons and parties interested in the site. The mailing list will include key contacts listed in Appendix A as well as residents and businesses located near the site. PG&E established a mailing list that includes about 30 residents and property owners within a one-mile radius of the Facility, as required by DTSC. This mailing list also includes contacts from Native American tribes in the area; local elected officials; federal, state and county agency officials; other interested community individuals; business associations; local news media; and a regional and statewide mandatory mailing list of key individuals and groups. The persons on this list will receive written information, such as fact sheets provided jointly by DTSC and PG&E about the project at key technical milestones, as requested by DTSC. The mailing list will be updated during the project as necessary to include all interested persons.

#### 5.1.7 Meetings with Local Officials

Local officials who have expressed interest in the site will continue to be informed of major milestones in the project.

#### 5.1.8 Attend Meetings Sponsored by Community or Neighborhood Organizations

As appropriate, and when requested, PG&E and DTSC representatives will attend meetings sponsored by community or neighborhood organizations about the project. Comments or questions of community members would be addressed during the meetings when feasible, or noted and answered by DTSC or PG&E at a later date if more research is required.

#### 5.1.9 Information Contacts

Currently, the DTSC Project Manager and Public Participation Specialist serve as information contacts for this project. PG&E has also established an information contact. These information contacts respond directly to citizen inquiries regarding the site. The contact names and telephone numbers will be published in fact sheets and are available at the information repositories. Project information contacts are identified in Appendix C.

#### 5.1.10 Record Inquiries

PG&E will document in a log the public inquiries it receives about the project and provide copies of log entries to DTSC. The log will specify the name, address and phone number of the inquirer, the date and nature of the inquiry, and who responded to the inquiry.

### 5.2 ACTIVITIES SCHEDULE

Public Participation activities will be performed according to the schedule in Table 1, "Schedule for Public Participation Activities."



### 5.3 RESPONSIBILITY FOR IMPLEMENTATION

As the lead agency, DTSC oversees public participation activities associated with site investigation and remediation. PG&E is responsible for implementing the Public Participation Plan.

DTSC's responsibilities include the following activities:

- Review, maintain and approve a mailing list
- Approve all fact sheets before they are printed
- Review and approve public notices published in newspapers
- Conduct public meetings and oversee PG&E's provision of any translation services that may be required
- Record public meeting proceedings
- Review and approve arrangements for public meetings and materials for those meetings
- Receive and respond to comments on all documentation open for public comment

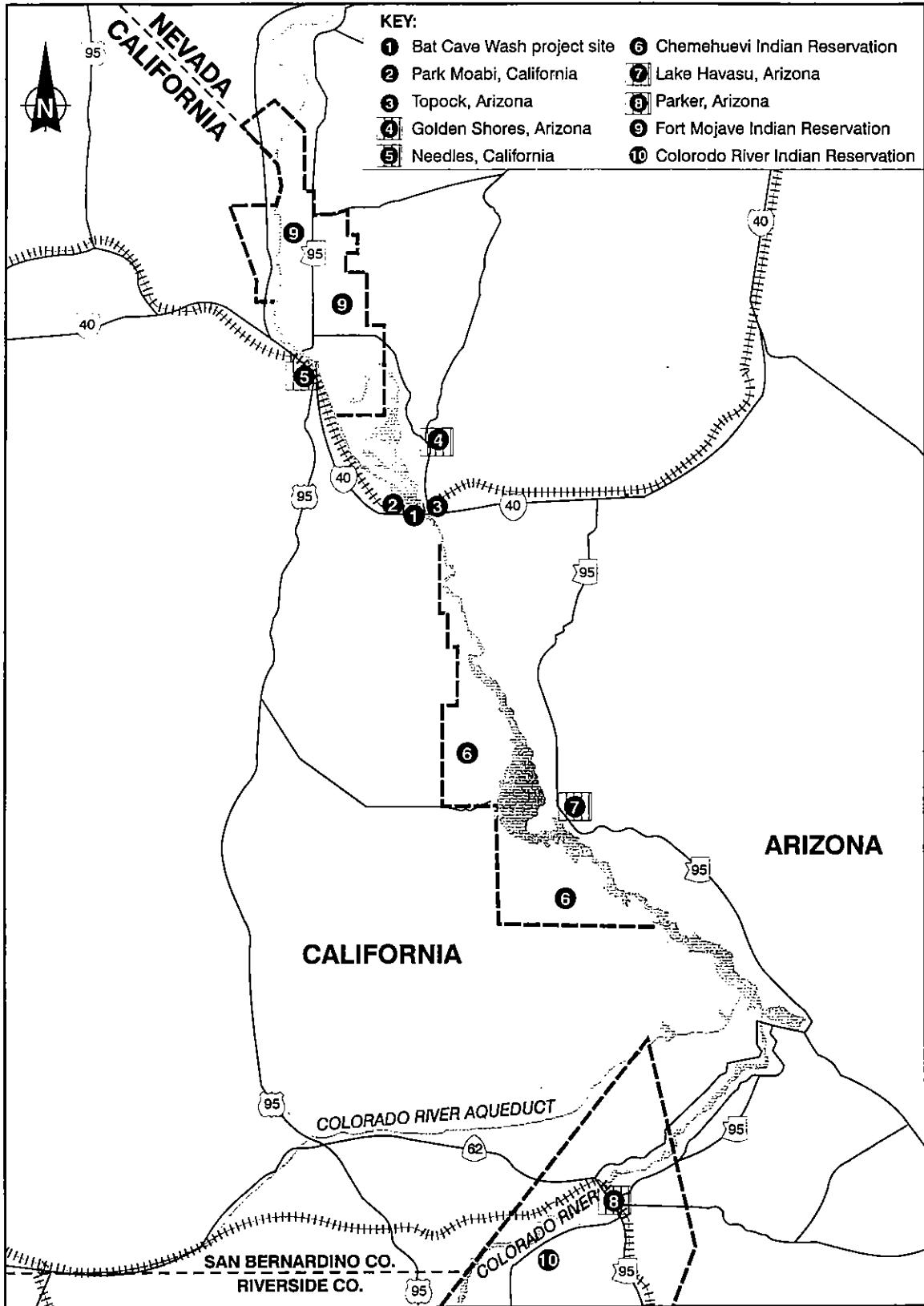
PG&E is responsible for the following:

- Developing and updating a mailing list
- Establishing and maintaining information repositories
- Preparing fact sheets for DTSC review and comment
- Preparing notices for public comment periods for DTSC's review and comment
- Distributing approved notices
- Making arrangements for public meetings and preparing, with DTSC's oversight, meeting presentations and agendas
- Reviewing comments for and revising the PPP

Both PG&E and DTSC have designated central information contacts. The DTSC contacts are Eduardo Vallesteros, DTSC Project Manager, at (818) 551-2176, and Martin Prisco, DTSC

Public Participation Specialist, at (818) 551-2875. The Project Manager for PG&E is Melvin Wong. The project contact at PG&E is Linda Quinones-Vaughan, PG&E Public Affairs, at (805) 321-4407.

**FIGURE 1**  
**BAT CAVE WASH PROJECT SITE**  
**AND SURROUNDING COMMUNITIES**



SOURCE: Ecology and Environment, Inc. 1997

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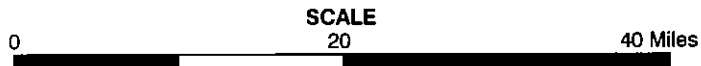


Figure 1 BAT CAVE WASH PROJECT SITE AND SURROUNDING COMMUNITIES

**FIGURE 2**  
**BAT CAVE WASH PROJECT SITE**

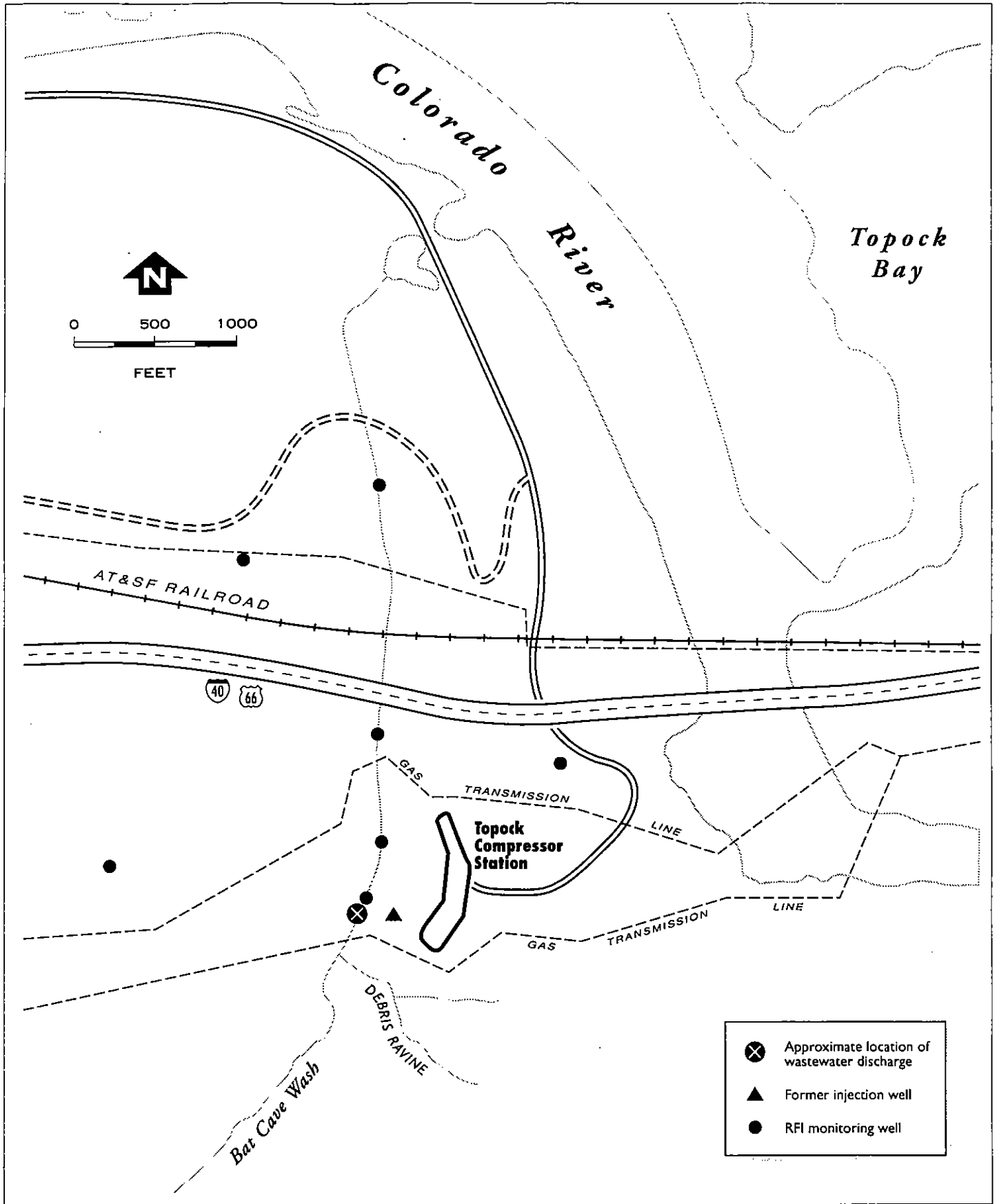


Figure 2  
**PROJECT SITE**

**TABLE 1**  
**SCHEDULE OF PUBLIC PARTICIPATION ACTIVITIES**

**TABLE 1 SCHEDULE FOR PUBLIC PARTICIPATION ACTIVITIES**

| Public Participation Activities                      | RFI Workplan Implemented {a} | Interim Measures | RFI Report Completed | Remedy Selection Proposed {b,d} | Remedy Selection Completed {e} | Corrective Measures Implemented {e} |
|--|------------------------------|------------------|----------------------|---------------------------------|--------------------------------|-------------------------------------|
| Information Repositories                             | Reports Included             | As Available     |                      |                                 |                                |                                     |
| Respond to Public Inquiries                          | Ongoing                      |                  |                      |                                 |                                |                                     |
| Attend Meetings Sponsored by Community Organizations | Ongoing                      |                  |                      |                                 |                                |                                     |
| Mailing List   | Update as Needed             |                  |                      |                                 |                                |                                     |
| Meetings with Local Officials                        | Ongoing                      |                  |                      |                                 |                                |                                     |
| Fact Sheet {c}                                       | X                            |                  | X                    | X                               | X                              | X                                   |
| Public Hearing Notices                               |                              | X                |                      | X                               |                                |                                     |
| Public Meeting Open House {c}                        |                              |                  |                      | X                               |                                |                                     |
| Response to Comments                                 |                              | X                |                      |                                 | X                              |                                     |
| Update Public Participation Plan                     | Update as Needed             |                  |                      |                                 |                                |                                     |

- a. Resource Conservation and Recovery Act Facility Investigation
- b. Corrective Measure Study
- c. If requested, additional fact sheets and public meetings may be added as needed.
- d. The need for a Corrective Measure Study is not currently known until the investigation is complete..
- e. If a clean up is required.



**APPENDIX A**  
**TOPOCK COMPRESSOR STATION FACILITY**  
**KEY CONTACT LIST**

**Community Contacts**

Park Moabi Regional Park  
Mike Semendich, Acting Park Superintendent  
Park Moabi Road  
Needles, CA 92363  
760-326-9222  
760-326-3831  
760-326-9223, Fax

Ms. Demarious Carter  
League of Women's Voters  
218 H Street  
Needles, CA 92362  
760-326-2924

Golden Shores/Topock Civic Association  
Jim Smith, President  
P. O. Box 65  
Topock, AZ 86436  
520-768-2121

**Tribal Contacts**

Fort Mojave Indian Reservation  
Nora Helton, Chairperson  
Llewlyn Barrackman, Vice-Chairman  
Gary Goforth, Administration Manager  
500 Merriman  
Needles, CA 92363  
760-629-4591

Colorado River Indian Tribes Reservation  
Daniel Eddy Jr., Tribal Chairman  
Herman T. J. Laffoon, Commercial Manager  
Route 1, Box 23-B  
Parker, AZ 85344  
520-669-9211  
Chemehuevi Valley Indian Reservation

Gjrlle Dunlap, Chairman  
P. O. Box 1976 Havasu Lake  
Havasu Lake, CA 92363  
760-858-4301

Larry Chase  
Indian Child Welfare, Program Director  
Chemehuevi Indian Tribe  
P.O. Box 1560  
Havasu Lake, CA 92363  
760-858-5426

Bureau of Indian Affairs  
Phoenix Area Office (covers AZ, NV, UT, CA, and ID)  
Attn: John F. Krause, Environmental, or  
Evelyn Roanhorse, Social Service (602) 379-6785  
400 North 5<sup>th</sup> Street  
Phoenix, AZ 85004  
602-379-6750

Ft. Yuma-Quechan Tribe  
Mike Jackson, President  
P. O. Box 11352  
Yuma, AZ 85366

Cocopah Tribe  
Sherry Cordova, Chairperson  
Avenue G & Co. 15<sup>th</sup>  
Somerton, AZ 85350

### **Primary Local Government Contacts**

**Mohave County, Arizona**  
County Seat - Kingman, Arizona  
Board of Supervisor Member  
District 1 Carol Anderson, Chairman  
County Manager  
Paul Macintosh  
P. O. Box 7000  
Kingman, AZ 86402-7000  
520-753-0729  
520-753-9141

Planning, Zoning and Building Department  
Christine Ballard, Director  
3675 E. Andy Devine Avenue  
Kingman, AZ 86401  
520-757-0910

Health Department  
Norm Marrah, Environmental Health Division  
Kingman Office  
3675 E. Andy Devine Avenue  
Kingman, AZ 86401  
520-757-0901

**San Bernardino County**  
County Seat - San Bernardino, California  
Board of Supervisors  
District 1, Kathy Davis  
County Administrative Office  
Jim Hlawek  
385 North Arrowhead Avenue  
San Bernardino, CA 92415  
Environmental Health Services Division  
Division Director, Pamela Bennett  
385 North Arrowhead Avenue  
San Bernardino, CA 92415-0160  
909-387-4646  
Planning Department  
Director, Valerie Pilmer  
385 North Arrowhead Avenue  
San Bernardino, CA 92415-0182  
909-387-4131

San Bernardino County  
Fire Department, Hazardous Materials Division  
Mr. Peter Brierty  
385 North Arrowhead Avenue  
San Bernardino, CA 92415-0153  
909-387-3200

**La Paz County, Arizona**  
County Seat- Parker  
Board of Supervisors  
District 2, Clifford Edey, Vice Chairman

County Administrative Officer  
Larry Layton  
Emergency Services Director  
Marvin Powell  
1112 Joshua Avenue  
Parker, Arizona 85344  
520-669-1100 (Health Department Only)  
520-669-6115, Board of Supervisors  
Community Development Director  
Mary Dahl  
1112 Joshua Avenue  
Parker, Arizona 85344  
520-669-6138

**Needles, California**  
Murl Shaver, Mayor  
Tom Parry, City Manager  
817 Third Street  
Needles, California 92363  
760-326-2113

**Lake Havasu City, Arizona**  
Richard L. Hileman, Mayor  
Bruce Williams, City Manager  
1795 Civic Center Boulevard  
Lake Havasu City, Arizona 86403  
520-453-4140

**Parker, Arizona**  
Sandra Pierce, Mayor  
Ken Keene, Vice Mayor  
Frank Savino, Public Works Director  
P. O. Box 609  
Parker, Arizona 85344  
520-669-9265

**California and Arizona Water Districts, Agencies and Companies**

Central Arizona Water Conservation District  
Sid Wilson, General Manager  
23636 N. 7<sup>th</sup> Street  
Phoenix, Arizona 85024  
602-869-2331

Citizens Utilities Company  
Water and Wastewater  
1760 McCulloch Boulevard  
Lake Havasu City, AZ 86403  
520-453-4748

Colorado River Basin Region (Region #7)  
Regional Water Quality Control Board  
Phillip Gruenberg, Executive Officer  
73-720 Fred Waring Driver #100  
Palm Desert, California 92260  
760-346-7491

Consolidated Water Utilities, LTD  
RR 2 Box 580  
Parker, Arizona 85344  
520-667-3335

Golden Shores Water Company, Inc.  
12812 S. Highway 66  
Topock, Arizona 86436  
520-768-3110

Havasu Water Company  
1760 McCulloch  
Lake Havasu City, Arizona 86403  
520-453-4748  
Horizon Six Improvement District  
P. O. Box 459  
Lake Havasu City, Arizona 86427  
520-855-5755

Metropolitan Water District of Southern California  
P. O. 38  
Parker Dam, CA 92267  
760-663-4911

Town of Parker Water Department  
1314 W. 11<sup>th</sup> Street  
Parker, Arizona 85344  
520-669-9265

## **Arizona Federal and State Officials**

### **Arizona Federal Officials**

Senator Jon Kyl  
District Office  
Kim Wold, State Director  
2200 E. Camelback Road, Suite 120  
Phoenix, AZ 85016  
(602) 840-1891

Senator John McCain  
District Office  
Babette Donaldson, Office Manager  
2400 East Arizona Biltmore Circle  
Suite 1150  
Phoenix, AZ 85016  
(602) 952-2410

District 5, Congressman Jim Kolbe (Kingman/Mojave County Area)  
District Office, Pat Klein, District Director  
1661 N. Swan Road, #112  
Tucson, Arizona 85712-4095  
520-881-3588

District 3, Congressman Bob Stump (Kingman/Lake Havasu/Parker Area)  
District Office, Lisa Jackson, Chief of Staff  
230 N. 1<sup>st</sup> Avenue, Room 2001  
Phoenix, Arizona 85025  
602-379-6923

### **Arizona State Officials (Kingman, Bullhead/Mojave County Area)**

District 1, Carol Springer, State Senator  
District 1, Don Aldridge, State Representative  
District 1, Sue Lynch, State Representative  
District 2 John Wettaw, State Senator  
District 2, John Verkamp, State Representative  
District 2, Joe Hart, State Representative  
District 3, James Henderson Jr., State Senator  
District 3, Benjamin Hanley, State Representative  
District 3, Jack Jackson, State Representative  
1700 West Washington  
Phoenix, Arizona 85007  
602-542-4221

**(Parker/La Paz Area)**

District 5, Pat Conner, State Senator  
District 5, Jim Carruthers, State Representative  
District 5, Robert J. McLendon, State Representative  
1700 West Washington  
Phoenix, Arizona 85007  
602-542-4221

**California Federal and State Officials**

**California Federal Officials**

Senator Barbara Boxer  
202-224-3553  
SH-112  
Washington D. C. 20510  
District Office  
2250 East Imperial highway, Suite 545  
El Segundo, CA 90245  
310-414-5700

Senator Dianne Feinstein  
202-224-3841  
SH-331  
Washington D. C. 20510  
District Office  
11111 Santa Monica Boulevard, Suite 915  
Los Angeles, CA 90025  
310-914-7300  
District 40, Congressman Jerry Lewis  
District Office, Corrine Spears, Field Representative  
1150 Brookside Avenue, Suite J-5  
Redlands, CA 92373  
909-792-5901

**California State Officials**

District 34, Keith Olberg, State Assembly  
District Office, Bill Postmus, District Field Representative  
14011 Park Avenue, Suite 470  
Victorville, California 92392  
760-951-8555

District 17, Pete Knight, State Senator  
District Office  
P. O. Box 1716  
Barstow, California 92312-1716

Tad Honeycutt  
Field Representative, Senator Wm. J. "Pete" Knight  
15278 Main Street, Suite D  
Hesperia, CA 92345  
760-244-2402

**Citizen Groups**

Citizens Against Toxic Substances  
Ms. Karen Gerring  
P. O. Box 3073  
Kingman, Arizona 86402  
520-753-6630

Parker Area Alliance for Community Empowerment  
Attn. Duce Minor  
1112 Arizona Avenue  
Parker, Arizona 85344  
(520) 669-5565

**Federal Agencies**

U. S. Bureau of Land Management  
Needles Resource Area  
Molly Brady, Area Manager  
101 West Spike's Road  
Needles, California 92362  
760-326-7000

U. S. Bureau of Land Management  
Lake Havasu Resource Area  
Jamie Provencio, Field Manager  
2610 Sweetwater Avenue  
Lake Havasu, AZ 86406  
520-505-1200



U. S. Bureau of Reclamation, Yuma Project Office  
Gary Bryant, Area Manager  
7301 Calle Agua Salada  
Yuma, Arizona 85364  
520-343-8100

U. S. Fish and Wildlife Service  
Havasu National Wildlife Refuge  
Greg Wolfe, Acting Refuge Manager  
1406 Bailey Avenue  
Needles, California 92363  
760-326-3853

U.S. Fish and Game Office  
Colorado River Indian Tribes  
1604 California Avenue  
Parker, Arizona 85344  
520-669-9285

**Arizona and California State Agencies (excluding DTSC)**

State of Arizona  
Department of Game and Fish  
Kingman Office, Bob Posey  
5325 Stockton Hill Road  
Kingman, Arizona 86401  
520-692-7700, ext., 110

State of California  
Department of Fish and Game, Region 5  
330 Golden Shore, Suite 50  
Long Beach, CA 90802  
310-590-5126

**Regional Group**

Western Arizona Council of Governments  
208 North Fourth Street  
Kingman, Arizona 86401  
No phone number obtained

### **Local News Media**

Mohave Valley Daily News  
2435 Miracle Mile  
Bullhead City, Arizona 86442  
520-763-2505  
Fax: 520-763-7820  
News Phone: 602-763-7396  
Editor: Darryle Purcell  
Owner: News West Publishing Co.  
Affiliated Publications: Needles Desert Star, Laughlin Nevada Times

Laughlin Nevada Times  
3100 S. Needles Highway, Suite 700  
P. O. Box 29909  
Laughlin, Nevada 89029  
Tel. (702) 298-6090  
Fax. (702) 298-3626  
Editor: Lewis Clevenger  
Owner: News West Publishing Co.

### **Library Repositories**

Mojave County Library  
Attn: Ms. Bonnie Campbell, M.L.S.  
Librarian, Charles C. Royall Memorial Library  
1787 McCulloch Boulevard  
Lake Havasu City, AZ 86403  
520-453-0718  
520-453-0720

Mojave County Library  
Attn: Ms. Lois Slater, Station Coordinator  
Golden Shores/Topock Library  
13176 South Golden Shores  
P. O. Box 1356  
Topock, AZ 86436-1356  
520-453-0718

San Bernardino County Library  
Needles Branch  
Attn: Ms. Barbara J. Guhin, Branch Head  
1111 Bailey Avenue  
Needles, CA 92363  
760-326-9255  
760-326-9238 fax

Chemehuevi Indian Reservation  
Attn: Matthew Leivas, Sr.  
1990 Palo Verde Drive  
Havasu Lake, CA 92363  
760-858-1116

**APPENDIX B**

**COMMUNITY ASSESSMENT QUESTIONNAIRE**

Pacific Gas and Electric Company  
Topock Compressor Station  
Approximately 15 miles southeast of Needles  
Needles, California  
(Near Moabi Park/Colorado River)

1. How long have you lived or worked in the area?

\_\_\_\_\_ 0-5 years                      \_\_\_\_\_ 12-20 years  
\_\_\_\_\_ 6-12 years                     \_\_\_\_\_ 21 or more years

2. Prior to receiving any recent information, were you aware of the existence of potential environmental impacts at the Pacific Gas and Electric Topock Facility?

\_\_\_\_\_ Yes                              \_\_\_\_\_ No

3. What is your current level of concern about this project, if any?

\_\_\_\_\_ No concerns    \_\_\_\_\_ Low to moderate    \_\_\_\_\_ High concern

4. Do you have any concerns about specific environmental health impact(s) in your area? Yes/No? (If Yes, please describe)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Do you have any concerns or issues you feel need to be addressed regarding this project? If so, what are those concerns?

6. What officials, groups, organizations, or individuals should we contact regarding this project?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. What is the best way to provide you with information?

\_\_\_\_\_ Fact Sheets    \_\_\_\_\_ Public Meetings    \_\_\_\_\_ Other (please specify)

\_\_\_\_\_  
\_\_\_\_\_

8. Where is the best location for the following:  
Information Repository \_\_\_\_\_  
Public Meetings \_\_\_\_\_

9. What do you believe are preferred radio and television station(s) and newspapers that cover the community? \_\_\_\_\_  
\_\_\_\_\_

10. Is Spanish translation or translation into another language needed? Please specify the language.  
\_\_\_\_\_

Please provide any additional comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Would you like to be on our mailing list:    \_\_\_\_\_ Yes    \_\_\_\_\_ No (please remove my name)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City/State/Zip Code: \_\_\_\_\_

Please mail your questionnaire to:  
Tom Mays, DTSC, 1011 Grandview Avenue, Glendale, CA 91201

## APPENDIX C

### PROJECT INFORMATION CONTACTS

Eduardo Vallesteros, Project Manager  
Department of Toxic Substances Control  
1011 North Grandview  
Glendale, CA 91201  
(818) 551-2176

Martin Prisco, Public Participation Specialist  
Department of Toxic Substances Control  
1011 North Grandview  
Glendale, CA 91201  
(818) 551-2875

Linda Quinones-Vaughan, Public Affairs  
Representative  
Pacific Gas and Electric Company  
1918 H Street  
Bakersfield, CA 93301  
(805) 321-4407

### INFORMATION REPOSITORIES

Department of Toxic Substances Control  
Glendale, California  
Contact: Joan Barrio  
(818) 551-2886  
8am - 5pm, Monday - Friday

Needles Library  
Needles, California  
Contact: Barbara Guhin  
(760) 326-9255  
10am - 6pm, Monday and Tuesday  
10am - 5pm, Thursday and Saturday

Chemehuevi Indian Reservation  
Havasu Lake, California  
Contact: Matthew Leivas, Sr.  
(760) 858-1116  
7:30am - 4pm, Monday - Friday

Golden Shores / Topock Library Station  
Topock, Arizona  
Contact: Lois Slater  
(520) 768-2235 (fax answers when closed)  
2pm - 7pm, Monday  
8am - 1pm, Tuesday and Thursday

Mojave County Library  
(Charles C. Royall Memorial Library)  
Lake Havasu City, Arizona  
Contact: Bonnie Campbell  
(520) 453-0718  
9am - 5pm, Mon, Wed, Fri and Sat  
9am - 8pm, Tuesday and Thursday

## PUBLIC MEETING LOCATIONS

If a public meeting or meetings will be required, suitable locations will be determined based on public input. Among the possible public meeting sites are:

### **Needles Area**

Needles High School  
Needles City Hall

### **Havasu Area**

Lake Havasu School District  
Lake Havasu Senior Center  
Lake Havasu Parks and Recreation Aquatic Center

### **Topock Area**

Senior Center  
Topock Elementary/Middle School

### **Indian Reservations**

Fort Mojave Indian Reservation, Needles, CA  
Colorado River Indian Tribes Reservation, Parker, AZ  
Chemehuevi Valley Indian Reservation, Havasu Lake, CA

## APPENDIX D GLOSSARY

*Chromium:* A naturally occurring element found in rocks, animals, plants, soil and volcanic dust and gases. It is present in the environment in several different forms, most commonly trivalent chromium and hexavalent chromium. (See below)

*Corrective Action:* The corrective action process is designed to evaluate the nature and extent of releases of hazardous substances at a site. The process also identifies, develops and implements appropriate corrective measures to protect public health and the environment.

*Corrective action measures:* Specific activities designed to clean up contamination at a site resulting from present and past hazardous waste handling practices.

*Corrective Measures Study (CMS):* A study performed if the DTSC determines that a release poses a potential threat to human health and/or the environment.

*Department of Toxic Substances Control (DTSC):* A department within the California Environmental Protection Agency charged with the responsibility for overseeing the investigation and remediation of hazardous waste sites and regulating hazardous waste management companies.

*Evaporation ponds:* Surface impoundments constructed to evaporate and therefore, reduce wastewater discharge to the environment.

*Hazardous waste:* Waste substances that can pose a substantial or potential hazard to human health or the environment when improperly managed. A hazardous waste possesses at least one of these four characteristics (or appears on special U.S. EPA lists): ignitability, corrosivity, reactivity, or toxicity.

*Hexavalent chromium:* A compound used in various industrial processes and considered carcinogenic and toxic in relatively small concentrations. Some of the uses of hexavalent chromium compounds include chrome plating, corrosion inhibitors, and other industrial processes. The type of chromium used at natural gas compressor stations was soluble hexavalent chromium, which kept the interior of cooling equipment clear of scales and other residues.

*Information repositories:* Information repositories are established at appropriate locations to allow open and convenient public access to all site-related documents approved by the DTSC for public disclosure.

*Interim Measures:* Measures taken if there is an immediate threat to human health or the environment. The public has the opportunity to provide input on Interim Measures and is kept informed of these activities.



*Pacific Gas and Electric Company (PG&E):* A subsidiary of PG&E Corporation, PG&E is an investor-owned electric and gas utility serving more than 13 million people in Northern and Central California. As part of its operations, PG&E transports gas supplies from the Southwest and Canada through a system of pipelines and compressor stations to PG&E's distribution and storage systems.

*Phosphate:* A chemical compound containing phosphorous and oxygen commonly used in detergent and fertilizer. Also used as water treatment for corrosion control.

*Public Participation Plan:* A plan to formally document community concerns regarding a site or facility, and to identify specific activities that will be implemented to ensure the community is involved in the DTSC decision-making process.

*Resource Conservation and Recovery Act (RCRA):* A 1976 amendment to the first federal solid waste legislation, the Solid Waste Disposal Act of 1965. In RCRA, Congress established initial directives and guidelines for the U.S. Environmental Protection Agency to regulate and manage hazardous waste.

*RCRA Facility Assessment (RFA):* The first step in the corrective action process, an investigation to determine whether or not potential substances or other constituents of concern exist in soils or groundwater at or near a facility. A lead agency, such as DTSC, gathers information about potential chemical releases relative to chemical usage, storage and treatment at the site.

*RCRA Facility Investigation (RFI):* The owner – in this case, PG&E – outlines the specifics of the planned investigation in an RFI Workplan that is reviewed and approved by DTSC. The investigation may include soil, surface water and groundwater. After the investigation begins, an RFI Report is prepared, summarizing field work results. DTSC oversees field work, reviews and approves the RFI Report, and involves the public by issuing fact sheets and conducting briefings and public meetings, if there is interest in the work.

*Trivalent chromium:* Non-cancerous semi-gray heavy metal. Considered an essential human nutrient in trace amounts.

**APPENDIX E**  
**DTSC FACT SHEET**