

# **Cultural Resources Monitoring Report No. 1 August 2010 through August 2013 Humboldt Bay Power Plant Decommissioning Humboldt County, California**

Prepared for  
Pacific Gas and Electric  
Humboldt Bay Power Plant  
1000 King Salmon Ave  
King Salmon, CA, 95503

And  
**CH2MHILL**  
2525 Airport Drive  
Redding, CA. 96001

February 2014

Prepared by:

Dimitra Zalarvis-Chase, M.A., RPA



DZC Consulting  
2370 Lindstrom Ave  
Fairhaven, CA. 95564

National Archaeological Database (NADB)

*Type of Study:* Disturbance Study, Testing, and Monitoring

*Sites Recorded/Updated:* 1; *Isolates Recorded:* 0

*USGS Quadrangles:* Eureka South, California, *Acreage:* 2.07 acres

*Level of Investigation:* CEQA

*Key Words:* Humboldt County, Pacific Gas and Electric,  
California Coastal Commission, CEQA, Nuclear



# **Cultural Resources Monitoring Report No.2 September 2013 through March 2013 Humboldt Bay Power Plant Decommissioning Humboldt County, California**

Prepared for  
Pacific Gas and Electric  
Humboldt Bay Power Plant  
1000 King Salmon Ave  
King Salmon, CA, 95503

And  
**CH2MHILL**  
2525 Airport Drive  
Redding, CA. 96001

February 2014

Prepared by:  
Dimitra Zalarvis-Chase, M.A., RPA



DZC Consulting  
2370 Lindstrom Ave  
Fairhaven, CA. 95564

National Archaeological Database (NADB)

*Type of Study: Monitoring*

*Sites Recorded/Updated: 0; Isolates Recorded: 2*

*USGS Quadrangles: Eureka South, California, Acreage: 2.07 acres*

*Level of Investigation: CEQA*

*Key Words: Humboldt County, Pacific Gas and Electric,  
California Coastal Commission, CEQA, Nuclear, Monitoring*



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# **Archaeological Resources Protection Plan**

for the

## **Humboldt Bay Power Plant Decommissioning Project**

**Humboldt County, California**

Submitted by:



***Pacific Gas and  
Electric Company™***

Submitted to:

**California Coastal Commission**

45 Fremont Street, Suite 2000  
San Francisco, CA 94105-2219

April 2010



**CONFIDENTIAL Appendix B**

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**Department of Parks and Recreation (DPR) 523 Forms**

**P1. Other Identifier:** PGE Decommission IF-1 2010

**\*P2. Location:** ☒ Not for Publication ☐ Unrestricted

**\*a. County:** Humboldt (P2b and P2c or P2d. Attach a Location Map as necessary.)

**\*b. USGS 7.5' Quad:** Fields Landing **Date:** 08-26-2010 **T 4.N; R 1.W;** NW ¼ of SW ¼ of Sec 8; M.D. **B.M.**

**c. Address:** 1000 King Salmon Avenue,

City: King Salmon, CA

Zip: 95503

**d. UTM:** Zone: 10; 0397998 mE/ 4510675 mN (G.P.S.)

**e. Other Locational Data:** (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:

From downtown Eureka, California, proceed south on State highway 101. Approximately 2 miles south of Eureka, take the King Salmon Avenue exit. At the bottom of the off-ramp turn right onto King Salmon Avenue. Travel .2 miles to the entrance gate of the PG&E Humboldt Bay Power Plant. Turn right into the driveway and park in the visitors parking on the left. Proceed 375 feet north to the guard station. Check in and receive a visitor's pass before going further. Past the guard station, turn left and proceed between and past the office buildings to the stairs at the base of the bluff. Go to the top of the stairs. From the top of the stairs proceed North towards the cyclone fencing. The datum is the sub-surface interchange box.

**\*P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

HBPP Decom IF-1 is comprised of two features located during three separate activities associated with the decommissioning of the Humboldt Bay Power Plant. HBPP Decom IF-1 consists of a burnt historic trash scatter and an unimproved road bed. Because of the proximity and potential association of the three finds, they were recorded on a single DPR 523.

The first discovery was on August 26, 2010, and consisted of a discreet, burned trash deposit. The extent of the deposit was unknown but was believed to possibly continue horizontally as debris was visible in the sidewalls of the trench. The Cultural Resource Monitor (CRM) from DZC Consulting recorded the find, determined the temporal association of the deposit, and recommended that installation of the grid continue as no further trenching would occur. The second discovery occurred on August 22, 2011 during contaminated soil sampling that took place immediately adjacent to the grid trench in which IF-1 was discovered. In anticipation of the continuance of IF-1, a CRM examined all auger spoils from the soil testing. The CRM recorded the find as an addition to HBPP Decom IF-1. As the debris observed indicated no temporal or significant diagnostic traits, the CRS recommended that the debris be disposed of in accordance with regulations consistent with the contaminated soil in which the debris was located. These two discoveries are noted together as Feature1.

Feature 2 was discovered in September 27, 2011 during grading of the truck-turn around area on the north-west corner of Buhne Point. The feature appears to be an unimproved road bed cut into the mild slope of Buhne Point.

**\*P3b. Resource Attributes:** (List attributes and codes)

AH4. Privies/dumps/trash scatters; AH7. Roads/trails/railroad grades

**\*P4. Resources Present:** ☐ Building ☐ Structure ☐ Object ☒ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

**P5b. Description of Photo:** (View, date, accession #) On file with CH2M-HILL, 2525 Airpark Dr. Redding, CA. 96001, and Pacific Gas & Electric

100 King Salmon Ave, King Salmon CA. 95503

**\*P6. Date Constructed/Age and Sources:** ☒ Historic ☐ Prehistoric ☐ Both

**\*P7. Owner and Address:** PG&E, 100 King Salmon Ave, Eureka Ca. 95501

**\*P8. Recorded by:** (Name, affiliation, and address)

Dimitra Zalarvis-Chase, DZC Cultural Resource Consultant, 2370 Lindstrom Ave, Fairhaven, CA 95564



\*P9. Date Recorded: 08-26-2010 to 09-27-2011

\*P10. Survey Type: This resource was recorded in compliance with the Archaeological Resources Protection Plan for the Decommissioning of the Pacific Gas and Electric Humboldt Bay Power Plant, as required by the Coastal Development Permit E-09-010.

\*P11. Report Citation:

Zalarvis-Chase, Dimitra. 2013. Cultural Resources Monitoring Report Humboldt Bay Power Plant Decommissioning Humboldt County, California. On file with Pacific Gas and Electric (Eureka, CA) and CH2MHill (Redding, CA.).

\*Attachments: ☐ NONE ☒ Location Map ☒ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record

☒ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record

☐ Artifact Record ☒ Photograph Record ☐ Other (List):

DPR 523A (1/95)\*Required information

**\*A1. Dimensions:** a. Length: 3 m. - b. Width: 1 m. *Actual boundaries not established*

**Method of Measurement:** ☒ Paced ☐ Taped ☐ Visual estimates ☐ Other:

**Method of Determination** (Check any that apply.): ☐ Artifacts ☐ Features ☐ Soil ☐ Vegetation ☐ Topography

☐ Cut bank ☐ Animal burrow ☒ Construction Excavation ☐ Property boundary ☐ Other (Explain):

**Reliability of Determination:** ☐ High ☐ Medium ☒ Low

Explain: Excavation was limited to the trench line, auger spoils, and an area graded by a bulldozer.

**Limitations** (Check any that apply): ☐ Restricted access ☒ Paved/built over ☒ Site limits incompletely defined

☒ Disturbances ☐ Vegetation ☐ Other (Explain):

**A2. Depth:** 10-18 inches below existing grade Method of Determination: Visual inspection

**\*A3. Human Remains:** ☐ Present ☒ Absent ☐ Possible ☐ Unknown (Explain):

**\*A4. Features** (Number, briefly describe, indicate size, list associated cultural constituents, and show location of each feature on sketch map.): Feature One (**F1**) consists of a burned trash deposit. The first deposit was encountered during trenching activities for a grounding grid. The extent of the deposit is unknown but is believed to continue vertically and laterally. The deposit consists of **metal**: several small steel sheet pieces exhibiting bolt holes and welding, aluminum shavings produced by a metal lathe, metal strapping, and wire nails; **glass**: blue ink bottle fragments with the makers mark //4 /Parker/Made in USA/2fl oz. .59cc/M [within a circle]//, a green "Squirt" soda bottle fragment, milk glass fragments, an amber flask bottle with a machine threaded lip and plastic cap, a hick piece of industrial looking glass, and window glass fragments; **wood**: numerous fragments of redwood 2x4 and 2x6 ranging in length from 7 inches to 28 inches; **other**: a length of fire hose, multiple fire brick fragments, an old caulking gun and tube reading "Manville Type S All-Seal", and a partial 8 inch diameter pipe gasket woven of either fiberglass or asbestos. All of the deposit was affected by fire.

An addition to Feature 1 was discovered during auguring for contaminated soil sampling that was conducted in August of 2011, immediately adjacent to the grid trench in which IF-1 was discovered. In anticipation of the continuance of IF-1, a CRM examined all auger spoils from the soil testing. Fragments of unidentifiable metal and wood were present in three of the eight auger spoils. Consistent with the remainder of IF-1, all the debris exhibited affects from fire. However, due to the fragmentary nature of the debris, no temporally diagnostic items were discernible. The CRM recorded the find as an addition to HBPP Decom IF-1. As the debris observed indicated no temporal or significant diagnostic traits, the CRS recommended that the debris be disposed of in accordance with regulations consistent with the contaminated soil in which the debris was located.

Feature 2 was discovered during grading for a truck turn-around area at the upper northwest corner of Buhne Point. While the soil matrices observed were both native (Horizon A and Horizon C), a distinct color change occurs as the A Horizon appears to form a distinctly linear feature within the C Horizon, measuring approximately 15 feet wide by 40 feet long. The south-east end of the feature terminates in the current paved access-road, while north-west end appeared to pinch out, dissolving into the C Horizon matrix. As no artifacts were associated with this feature to aid temporal or functional interpretations, it was documented solely as an unimproved road feature.

**\*A5. Cultural Constituents** (Describe and quantify artifacts, ecofacts, cultural residues, etc., not associated with features.):

**\*A6. Were Specimens Collected?** ☒ No ☐ Yes (If yes, attach Artifact Record or catalog and identify where specimens are curated.)

**\*A7. Site Condition:** ☐ Good ☐ Fair ☒ Poor

(Describe disturbances.): Site is heavily disturbed from farming and industrial activities

**\*A8. Nearest Water** (Type, distance, and direction.): Humboldt Bay is located 50m at 340°

**\*A9. Elevation:** Estimated 30 feet above Mean Sea Level

**A10. Environmental Setting** (Describe culturally relevant variables such as vegetation, fauna, soils, geology, landform, slope, aspect, exposure, etc.): The general setting is an uplifted outcrop on the shore of Humboldt Bay known as Buhne Point. The immediate area is a flat grade at the top of the point and is adjacent to Humboldt Bay. The surrounding area contains active freshwater, brackish, and salt marshes. Soils are bay mud atop of Holocene (Carlotta) formation with some organic decay forming a thin topsoil. Immediate native flora includes Pickle weed (*Salicornia virginica*), Arrowgrass (*Triglochin maritima*), Coyote brush (*Baccharis puluaris*), Rododendroon (*Macrophyllum*) and Tufted hairgrass (*Deschampsia cespitosa*). Invasive flora includes Dense Flowered Cordgrass (*Spartina densiflora*), Blackberry Bramble (*Rubus* sp.), and Pampass grass (*Cortaderia selloana*).



**A11. Historical Information:**

**A11. Historical Information:**

Prehistoric occupation is affiliated with the Wiyot tribe, an Algonquin speaking tribe whose traditional areas were focused around local waterways including the Eel River to the south, Little River to the North, and Humboldt Bay. Red Bluff/Buhne Point has been ethnographically noted as the site of a ceremonial grounds and village location. It is suspected that the ceremonial grounds are under water due to bayshore engineering efforts to create a seawall in the 1940's. The exact location of the former village is approximate and undetermined. Historic settlement of the Humboldt Bay area began in the 1850's with vigorous logging, fishing, and urban development activities in the immediate bay area, virtually eliminating the native peoples.

Historic settlement of the Humboldt Bay area began in the 1850's with vigorous logging, fishing, and urban development activities in the immediate bay area, virtually eliminating the native peoples. Consequently, both prehistoric and historic use signatures have been found at HBPP. Previous to the PG&E construction, the location of HBPP was used for agricultural purposes. Based on historic aerial photos (c. 1948), the operation was likely a dairy as opposed to a crop farm. By 1950 the land had been purchased by PG&E, who commenced building the two fossil fuel generator and the nuclear power facility.

\*A12. Age: ☐ Prehistoric ☐ Protohistoric ☐ 1542-1769 ☐ 1769-1848 ☐ 1848-1880 ☐ 1880-1914 ☒ 1914-1945

☒ Post 1945 ☐ Undetermined **Describe position in regional prehistoric chronology or factual historic dates if known:**

Regarding prehistoric occupation, the earliest radio carbon date for this immediate area is 1,050 +/- 200 years (CEC: 279). The farm related property was acquired by PG&E in 1948-1949.

**A13. Interpretations** (Discuss data potential, function[s], ethnic affiliation, and other interpretations):

Two diagnostic makers' marks were obtained from Decom IF-1 that indicated a temporal affiliation for deposition. The green "Squirt" soda bottle fragment was common c. 1959, while the blue ink bottle was associated with the Maryland Glass Company who produced this particular bottle from 1907 to 1970. Consultation with on-site PG&E metal workers confirmed that the bundles of aluminum "curly-cues" were indeed typical of metal lath shavings. The second trash scatter, Decom IF-2, did not exhibit any temporally diagnostic artifacts or characteristics. The road bed does not exhibit any improvements that would provide for long term use or the passing of heavy trucks and equipment, such as would be required during the long term operations of HBPP.

Therefore the interpretation stands that the trash deposit began during the time of agricultural use on this property and was continued for a short time during the construction of the Humboldt Bay Power Plant. The road bed is also interpreted to be related to the dairy farm operations.

Newly recorded HBRP-IF-1, a burnt historic refuse deposit and unimproved road bed, does not appear to meet any of the criteria for eligibility for the NRHP or the CRHP. Although the deposit is discreet, it lacks integrity because it was found in an area that has been highly disturbed by farming and industrial activities. The road bed too has been impacted by construction and maintenance of the HBPP effectively eliminating the continuance of the feature in both directions of travel.

The site does not appear to be associated with any events or persons that have made a significant contribution to local, California, or national history. Although the aluminum lathe shavings are potentially associated with HBPP, a firm correlation between the NRHP property at HBPP (Unit 3) and the lathe shavings cannot be confirmed. None of the remaining artifacts are unique and none embody any particularly distinctive characteristics of the period or methods of construction related to the farm house or HBPP. Finally, this site does not have any potential to yield new important information to local, state, or national history.

In all instances of discovery, the components of HBPP Decom IF-1 were completely documented on DPR 523 forms and planned activities for this area were allowed to proceed. The completed DPR will be submitted to the SHPO for the record. However, it is recommended that this resource is not eligible for listing on the NRHP or the CRHP under any criteria.

**A14. Remarks:**

08-31-2010, Dimitra Zalarvis-Chase - Because no cultural conditions have yet been specified with the Nuclear Regulatory Commission, California Coastal Commission, or the State Historic Preservation Office, I have deferred to the cultural conditions specified and/or recommended during my previous work with the Humboldt Bay New Generation Plant as they are comprehensive and conservative. These conditions recommend recordation of the find which will bring the find into compliance, as it has been assessed and recorded. It is my formal determination that this find is of no significance and that the items may be disposed of in accordance with previous and similar finds near this location. Per Bob Vogt at PG&E, the soil matrix has been sampled for contamination. Given the lack of integrity and

**A14. Remarks (cont.):**

the insignificance of the materials, I believe all excavated material is slated for disposal, especially if any notable levels of contaminants are found.

**A15. References** (Documents, informants, maps, and other references):

1. ) Cultural Resources Study for PG&E Humboldt Bay Power Plant, IFSFI Licensing Project; Final Report. PAR Environmental Services, Inc. 1906 21<sup>st</sup> Street, P.O. Box 160756, Sacramento, CA. 95816-0756
- 2.) Humboldt Bay Repowering Plant. California Energy Commission Final Decision. September 2008 (06-AFC-7. CEC 850-2008-005CMF.

**A16. Photographs** (See attached Photographic Record.):

On file with CH2M-HILL, 2525 Airpark Dr. Redding, CA. 96001, and Pacific Gas & Electric 100 King Salmon Ave, King Salmon CA. 95503

**\*A17. Form Prepared by:** Dimitra Zalarvis-Chase, DZC Cultural Resource Consultant  
Affiliation and Address: 2370 Lindstrom Ave, Fairhaven, CA. 95564.

**Date:** 02-28-2013

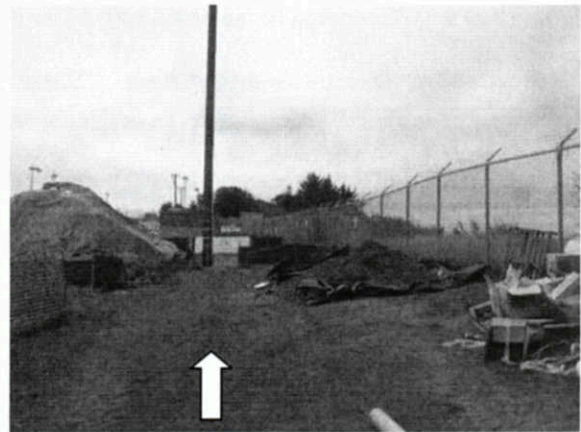
DPR 523C (1/95)

\*Required information

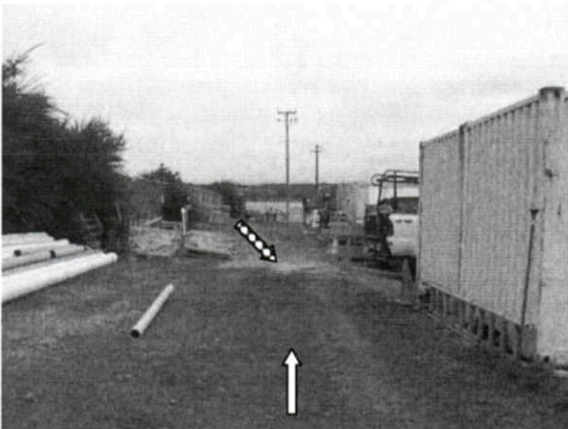




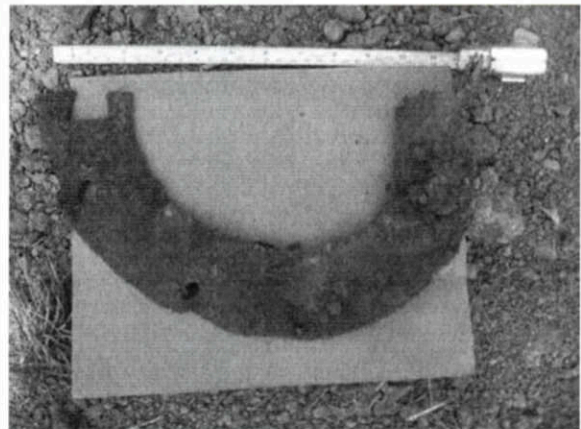
**Photo #:** PGE Decommission IF-7 **View:** N/NW  
**Description:** Overview of debris pile and associated matrix



**Photo #:** PGE Decommission IF-1 **View:**  
**Description:** View of back-filled trenchline, which was in line with the white arrow and terminated at the wooden power pole.



**Photo #:** PGE Decommission IF-2 **View:** NW **Description:**  
View of back-filled trenchline, which was in line with the white arrow and terminated at the sub-surface interchange box (checkered arrow).



**Photo #:** PGE Decommission IF-3 **View:** Close-up  
**Description:** Eight inch pipefitting gasquet; woven; fiberglass or asbestos



**Photo #:** PGE Decommission IF-4 **View:** Close-up  
**Description:** Sampling of metal debris including formed steel plates, aluminum lath shavings debris, and wire nails



**Photo #:** PGE Decommission IF-5 **View:** Close-up  
**Description:** Sampling of other debris included a burnt length of fire hose and several fire brick fragments

Page 7 of 9 \*Resource Name or # H B P P Decom IF-1

\*Recorded by: Dimitra Zalarvis-Chase \*Date: 08-26-10  
(1/95)

☒ Continuation

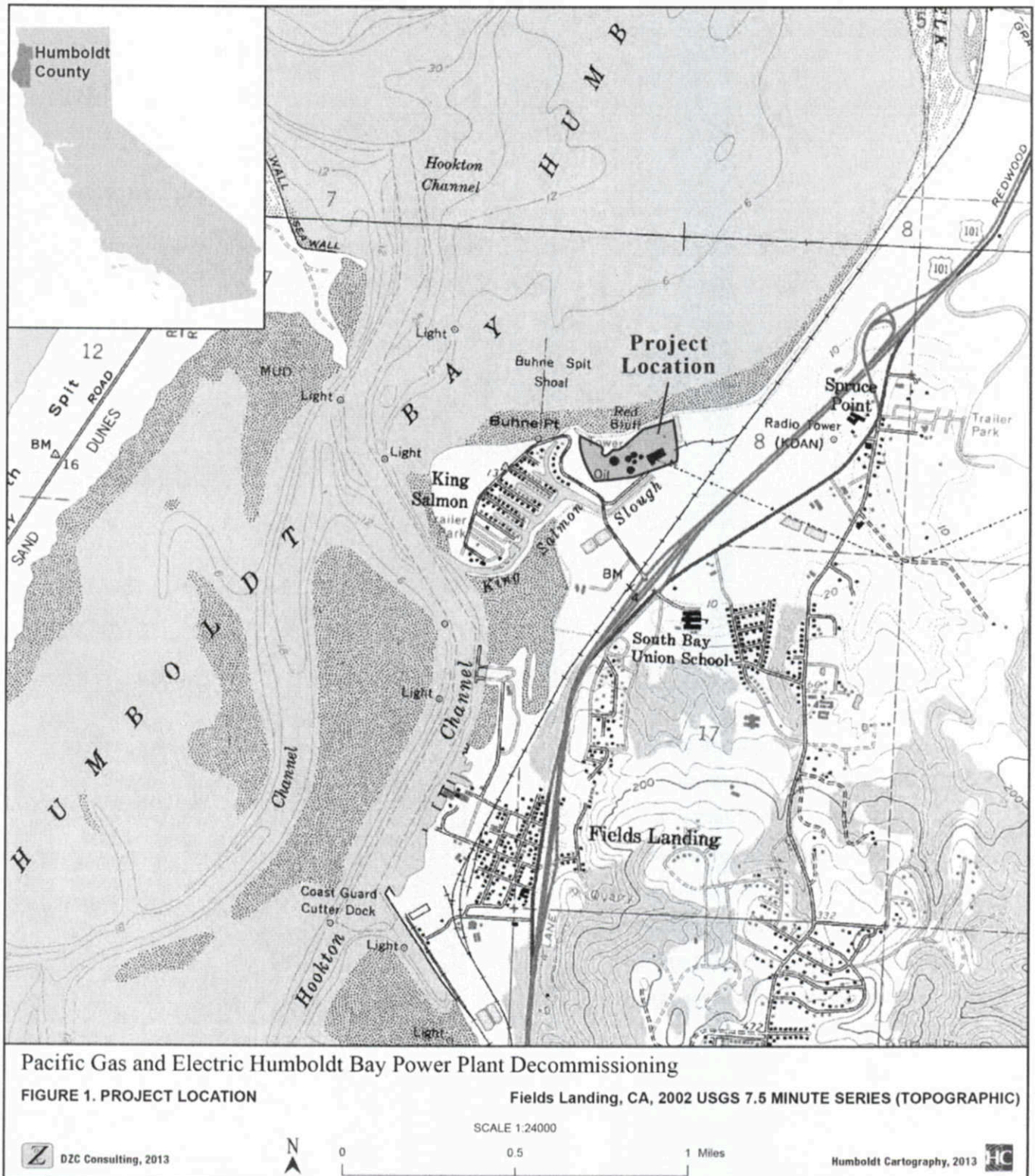
☐ Update

DPR 523L



**Photo #:** PGE Decommission IF-1 **View:** Close-up **Description:** Sampling of glass fragments including a machine threaded whiskey bottle and plastic cap; cobalt blue ink bottle (1097-1970), window glass, milk glass, and clear, thick industrial glass fragments.







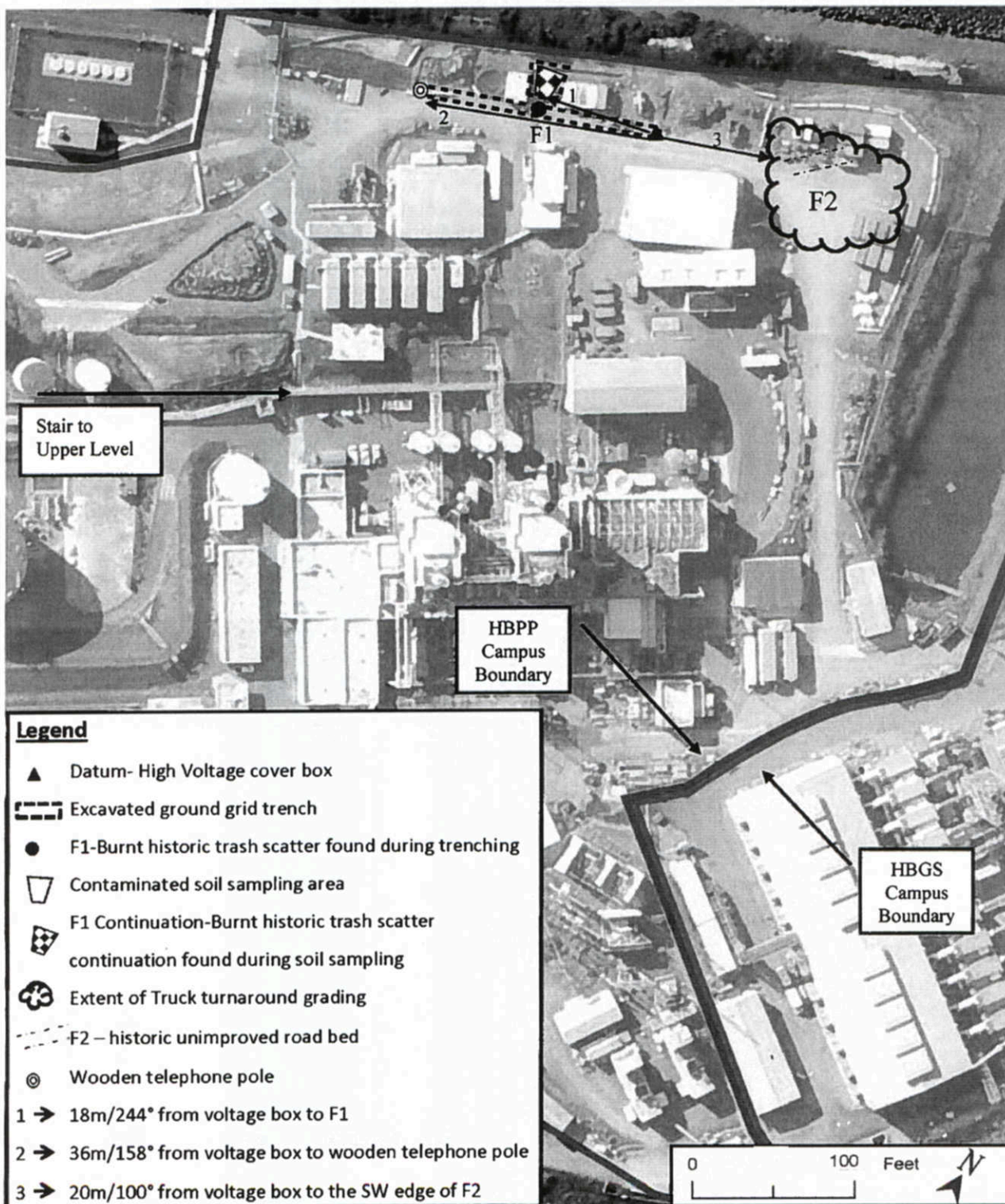
State of California — The Resources Agency  
DEPARTMENT OF PARKS AND RECREATION  
**SKETCH MAP**

Page 9 of 9

\*Resource Name or # HBPP Decom IF-1

\*Scale: 1:200

\*Date of map: March 2013 Page



NOTE: Include bar scale and north arrow.