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June 30, 2011

Lisa Dernbach
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Planning and Toxics Division
California Regional Water Quality Control Board
Lahontan Region
2501 Lake Tahoe Boulevard, South Lake Tahoe, California 96150

Subject: Transmittal of Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcels, Hinkley, California

Dear Ms. Dernbach:

Enclosed is the Groundwater Investigation and Characterization Report for the Former Nelson-Diaz Dairy and Field Crop Parcel, located just south of the Desert View Dairy in Hinkley, California. This report is being submitted pursuant to the Feb. 24, 2011 Amended Cleanup and Abatement Order (CAO), which required an investigation of the impacts to groundwater from potential discharges from the Desert View Dairy (DVD), the former Nelson-Diaz Dairy (NDD), and the former adjacent field crop parcel (FCP). As presented in the approved April 1, 2011 work plan, PG&E's portion of the investigation covers the area of the former NDD, the former FCP, and areas cross- and up-gradient of these parcels. The DVD operator is reporting the results of his investigation in a separate report.

All tasks specified in the CAO were completed. A records review of historical land use indicates that the former Nelson-Diaz Dairy and Field Crop Parcels have been used for agricultural and dairy activities. No additional contaminants of potential concern were identified; therefore, no additional analytes were added to the groundwater sampling program.

All work specified in PG&E's work plan was completed, with two exceptions:

1) Proposed groundwater samples were not collected from existing well MW-19, due to a broken pump encountered in the well at the time of planned sample collection. A review of recent groundwater analytical results for this and nearby wells indicates that this does not affect the conclusions of the investigation.

2) A nested monitoring well was not installed at location N-2S/D (subsequently named MW 109), because the aquifer was too thin for nested well construction at this location. A single completion well was constructed at this location

Please feel free to call me if you have any questions regarding this report.

Sincerely,

Robert C. Doss

cc: Lauri Kemper

# Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel

## Pacific Gas and Electric Company, Hinkley, California

Prepared for

**California Regional Water Quality Control Board**

On Behalf of

**Pacific Gas and Electric Company**

June 30, 2011

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# Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel

## Pacific Gas and Electric Company, Hinkley, California

**Prepared for**

**California Regional Water Quality Control Board**

**On Behalf of**

**Pacific Gas and Electric Company**

**June 30, 2011**

This report was prepared under the supervision of a California Professional Geologist


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C Groundwater Sample Logs and Laboratory Reports
D Historical Groundwater Analytical Results

# Acronyms and Abbreviations

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| bgs | below ground surface |
| CAO | Cleanup and Abatement Order |
| CRA | Conestoga-Rovers and Associates |
| DVD | Desert View Dairy |
| EDR | Environmental Data Resources Inc |
| FCP | Field Crop Parcel |
| MCL | maximum contaminant level |
| mg/L | milligrams per liter |
| MPN/mL | most probable number per milliliter |
| NDD | former Nelson-Diaz Dairy |
| nitrate-N | nitrate as nitrogen |
| PG&E | Pacific Gas and Electric Company |
| PVC | polyvinyl chloride |
| TDS | total dissolved solids |
| USEPA | United States Environmental Protection Agency |
| Water Board | California Regional Water Quality Control Board, Lahontan Region |

# 1.0 Introduction

On behalf of Pacific Gas and Electric Company (PG&E), this Groundwater Investigation and Characterization Report for the former Nelson-Diaz Dairy (NDD) and adjacent Field Crop Parcel (FCP) (hereafter referred to as the PG&E nitrate investigation) presents an evaluation of nitrate and impacts to groundwater beneath these properties. This report was prepared in response to the California Regional Water Quality Control Board, Lahontan Region (Water Board), Amended Cleanup and Abatement Order No. R6V-2008-0034A3 (CAO) (Water Board, 2011a).

In accordance with the CAO, a companion investigation of the operating Desert View Dairy and properties further north (hereafter referred to as the DVD investigation) is being conducted by Conestoga Rovers Associates (CRA). Some groundwater data from the DVD investigation are presented in this report; however, complete findings of the DVD investigation will be presented in a separate report prepared by CRA. The locations of the former NDD, FCP, and DVD are shown on Figure 1-1.

During PG&E's nitrate investigation, four groundwater monitoring wells were installed at three locations (two wells were installed as a nested pair), and groundwater samples were collected from these and 65 existing monitoring wells from April to June 2011. Field activities and methods followed the approved April 1, 2011 *Groundwater Investigation and Characterization Work Plan for Contamination in Groundwater from Current and Past Dairy Operations: Former Nelson-Diaz Dairy and Field Crop Parcel* (Work Plan) (CH2M HILL, 2011).

## 1.1 Project Objectives

The primary objectives of these investigations (Water Board, 2011a) were to:

- Review historical records of chemical use, storage, and disposal to assess whether all waste constituents of concern have been identified.
- Evaluate the subsurface geology to assess the hydrogeologic characteristics and preferential pathways that affect groundwater flow and contaminant migration.
- Evaluate the lateral and vertical extents of impact from past and present dairy activities by collecting and analyzing groundwater samples at locations on the DVD, NDD, and FCP—as well as to the north, west, east, and south—to evaluate the extent and temporal variability of nitrate and other constituents of potential concern.

## 1.2 Signature

This report has been reviewed and approved by a designated representative of PG&E.

Robert C. Doss
Principal Engineer
Remediation Project Office, Shared Services

# 2.0 Site Background and Records Review

This section summarizes the site background information, including the regulatory history, hydrogeologic and water quality conditions, and the results of a records review.

## 2.1 Regulatory Background

On September 13, 2010, the Water Board issued an CAO requiring the primary responsible parties (Mr. Paul Ryken, Flameling Dairy, Inc., the Estate of Nick Van Vliet, and Mildred Nelson-Diaz) to submit a work plan and implement a groundwater investigation to evaluate the extent of groundwater contamination resulting from dairy waste or other discharges at the DVD, the former NDD, and the adjacent FCP. The CAO also required secondary responsible parties (the K&H Van Vliet Children, LLC and PG&E) to comply with this request in the event that the primary parties fail to meet the requirements (Water Board, 2010).

On February 24, 2011, the Water Board issued an amended CAO, notifying the secondarily responsible parties of the non-compliance of the primary responsible parties with respect to the groundwater investigation requirements of the Order (Water Board, 2011a). Specifically, the Water Board noted that the Work Plan submitted by Mr. Ryken on December 15, 2010 only addressed contamination within the DVD and did not address potential contamination downgradient from the DVD or upgradient at the NDD and FCP. Therefore, the Water Board required all the responsible parties to comply with directives in the CAO, including submittal of a groundwater investigation work plan by April 1, 2011, implementation of the groundwater investigation within 30 days of the submission of an adequate work plan, and submittal of a report of findings by June 30, 2011. The only parties that responded to the CAO were Mr. Ryken and PG&E.

On April 1, 2011, PG&E submitted a work plan to the Water Board (CH2M HILL, 2011). Also on April 1, 2011, a separate work plan was submitted by CRA on behalf of Mr. Ryken (CRA, 2011a). On April 22, 2011, the Water Board provided conditional approval of the PG&E and Ryken work plans and requested groundwater sample collection and well installation at additional locations, primarily in the vicinity of the DVD (Water Board, 2011b). On May 23, 2011, CRA submitted a revised work plan to the Water Board requesting approval to construct and collect groundwater samples from temporary monitoring points rather than the permanent monitoring wells that were originally proposed (CRA, 2011b). The revised work plan was approved by Water Board staff.

## 2.2 Hydrogeologic Conditions

The primary groundwater recharge for the area originates from the Mojave River, located approximately 3 miles south and southeast of the DVD. The thickness of the Upper Aquifer is variable, with underlying basal units consisting of a blue clay aquitard or bedrock. The Upper Aquifer thickness generally ranges from about 20 feet (where blue clay is absent and

bedrock is shallow) to 90 feet. The bedrock unit outcrops in the area of the DVD. The blue clay unit thins to the west and is generally absent (i.e., pinches out) west of Mountain View Road (Haley Aldrich, 2010).

The sediments comprising the Upper Aquifer were generally deposited under fluvial conditions. The lithology is highly variable over short distances, both laterally and vertically. The coarse-grained sediments contain varying degrees of fine sand, silt, and clay, with minor amounts of gravel in some locations. The fine-grained sediments contain varying amounts of fine sand and clay, which results in heterogeneous and locally complex hydrogeologic conditions. Some geologic facies exhibit lateral connectivity, while others are highly irregular over short distances. These geological conditions complicate the transport and distribution of dissolved constituents in groundwater. The Upper Aquifer groundwater generally flows in a northerly direction in unconsolidated coarse-grained (primarily medium to coarse-grained sand) and fine-grained (primarily silt) sediments.

Depth to first groundwater currently ranges from about 75 to 90 feet below ground surface (bgs), with some degree of variability directly adjacent to remedial activities such as pumping or injection. Groundwater velocity in the Upper Aquifer is variable, depending upon the type(s) of sediments encountered and the local gradients. Modeling, tracer, and remedial system performance confirm that groundwater velocities range from 1 to 4 feet per day (Haley Aldrich, 2010).

For the purpose of recent monitoring well construction by PG&E, the Upper Aquifer has been separated into a shallow and deep zone. The shallow zone is typically described as being from the water table surface to about 110 feet bgs; the deep zone is typically described as that portion of the aquifer ranging from 110 feet bgs to the top of the underlying blue clay aquitard (or bedrock, when no blue clay is present). There is no defining aquitard that separates these two layers.

The April 25, 2011 groundwater elevation contours are presented on Figure 1-1. The groundwater gradients in the Upper Aquifer in the former NDD and FCP area are northerly, with a more northwesterly gradient in the FCP area towards several agricultural wells. In April 2011, the groundwater gradient in the former NDD and FCP areas ranged from approximately 0.001 to 0.002 feet per foot, with gradients becoming steeper in the northern portions of these areas.

Hydraulic gradients in the NDD and FCP areas, particularly in the north and west, are strongly influenced by remedial activities undertaken by PG&E to address hexavalent chromium in the Upper Aquifer. These activities include groundwater extraction from Upper Aquifer wells located west of the former NDD, in the northern portion of the FCP, and on the DVD, as shown on Figure 1-1. In addition, a freshwater injection system (using water sourced outside of the areas of chromium and nitrate impact, south of the compressor station) is in place in the vicinity of Acacia and Serra Roads (IN-series wells on Figure 1-1) west of the former NDD (CH2M HILL and ARCADIS, 2011a). The influence of freshwater injection is this area is evident by easterly gradients measured east of the injection wells.

## 2.3 Groundwater Quality

The CAO required that the investigation include constituents of potential concern including nitrate, total dissolved solids (TDS), chloride, sodium, sulfate, and specific conductance (Water Board, 2011a). Of these, only nitrate has a primary California maximum contaminant level (MCL) for drinking water; the MCL for nitrate as nitrogen (nitrate-N) is 10 milligrams per liter (mg/L). Nitrate is also considered a "conservative" dissolved constituent in groundwater, meaning that it generally migrates in an aquifer at approximately the same rate as groundwater flow and is less prone to chemical reaction with aquifer solids than most other dissolved constituents.

Historical land use in the broader Hinkley Valley has resulted in elevated concentrations of nitrate-N and TDS on many properties, including properties located upgradient (south) of the NDD and FCP. Nitrate concentrations greater than two times the MCL of 10 mg/L and TDS concentrations greater than the California secondary MCL of 1,000 mg/L are commonly observed in upgradient monitoring wells. As a result, the evaluation of groundwater impacts from historical land uses at the former NDD and FCP includes consideration of the wider distribution of nitrates and TDS.

## 2.4 Records Review

Prior to commencement of well installation and groundwater sampling field activities, a records review was accomplished by acquiring an electronic database report from Environmental Data Resources, Inc. (EDR) for the purpose of evaluating whether any waste constituents other than those typically associated with dairy waste[1] should be included as part of the PG&E nitrate investigation. EDR performed a records search of all reasonably ascertainable environmental databases in accordance with American Society for Testing and Materials (ASTM) Standard Practice E 1527-05 (ASTM, 2005).

A review of the database listings, historic topographic maps from 1934 to 1993, and historical photographs from 1953 to 2005 was performed. The results show the NDD and FCP sites have been used for rural residency, agriculture, and dairy operations; therefore, no additional analytes were added to the groundwater analytical program. Currently, the NDD and FCP are vacant land; there are no longer any structures, livestock pens, or ponds. There is a shallow imprint of the former dairy waste ponds at the NDD, but they are no longer active. The records review, including aerial photographs showing the locations of the former livestock pens, waste ponds, and impoundments, is summarized in a technical memorandum provided as Appendix A of this report.

[1] As listed in the amended CAO, dairy waste constituents for the nitrate investigation include: chloride, nitrate-N, total phosphorus, sodium, sulfate, TDS, specific conductance, and bacterial analyses (fecal coliform).

# 3.0 Field Activities and Methods

This section summarizes the well installation, groundwater sampling, and associated activities performed in accordance with the approved Work Plan (CH2M HILL, 2011). Figure 3-1 presents the locations of wells installed and sampled during the investigation. Table 3-1 presents the well installation details of each boring and groundwater monitoring well. Primary tasks conducted during the investigation included:

- Borehole drilling and collection of continuous core at three boreholes for lithologic logging and well installation.
- Installation and development of four groundwater monitoring wells completed within each borehole (including one nested well pair).
- Collection of groundwater samples from 65 existing and four newly installed groundwater monitoring wells.
- Laboratory analysis of groundwater samples and data quality evaluation.
- Management of investigation-derived materials.

## 3.1 Site Access and Utility Locating

The drilling sites were accessed by pre-existing roads on the PG&E-owned parcels. No vegetation was cleared. All construction occurred within previously disturbed areas.

One week prior to intrusive field activities, the proposed boring locations were marked and the Underground Service Alert of Southern California was called to notify utility companies. In addition, a third-party utility-locating company was subcontracted to use high-resolution ground-penetrating radar to locate utilities at the boring locations. As an added precaution, each boring location was hand-augured to 5 feet bgs to identify unknown utilities prior to drilling. No utilities were identified at the boring locations.

## 3.2 Drilling and Lithologic Logging

Well permits from the San Bernardino County Department of Health were obtained prior to drilling. Drilling and lithologic logging activities were performed (under the supervision of a California Professional Geologist) from May 18 to 27, 2011. Continuous core was collected from ground surface to the total depth drilled at each location. All boreholes installed were vertical.

Drilling through unconsolidated materials was accomplished with rotosonic drilling methods, which involves advancing a steel drive casing and core barrel through the subsurface using a combination of down-force, rotation, and vibration. This method was selected because it has the capability to produce a continuous core to the target drilling

depth, generates minimal drilling wastes, and provides relatively undisturbed sediment cores for observation or sample collection.

The core obtained was used to prepare the lithologic logs provided in Appendix B-1. Well installation rationale and details are discussed in Section 3.3.

## 3.3 Monitoring Well Installation

Each borehole was used to construct a monitoring well designed to test either a single or two zones. Well design was based on evaluation of lithologic data. All monitoring wells were installed and developed in accordance with the methods and procedures defined in the Work Plan (CH2M HILL, 2011).

The materials and methods used for installation and development of groundwater monitoring wells are presented in the following subsections. Well installation details are summarized in Table 3-1. Well construction diagrams are provided in Appendix B-2. Well completion reports filed with San Bernardino County and the Department of Water Resources Appendix B-3.

### 3.3.1 Single-completion Monitoring Wells

Single-completion monitoring wells, designed to monitor one specific interval of the borehole, were installed at MW-14S and MW-109[2] (locations shown on Figure 3-1). See Table 3-1 for well construction details.

The MW-14S well (screened from 82 to 97 feet bgs) was screened across the water table and constructed within 6-inch-diameter rotosonic drill casing, which was retracted as the well was constructed. There were already three existing monitoring wells at this location, each monitoring depth intervals below the water table and in the Lower Aquifer.

Well MW-109 was installed in the northwest corner of the former NDD property and was screened from 93 to 103 feet bgs. This well was constructed within a 10-inch-diameter rotosonic drill casing. The top of the blue clay was encountered at approximately 108 feet bgs.

Each well was constructed with threaded, 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC) casing and screen (0.02 inch factory slotted). Filter pack material consisting of #2/12 Monterey silica sand was installed from 1 foot below the bottom of well screen to 2 feet above the top of the screened interval, followed by 1 foot of #030 fine transition sand. The screened interval was then sealed from the remainder of the borehole with 5 feet of bentonite chips. After allowing time for swelling of the hydrated bentonite seal, grout was installed from the top of the bentonite seal to near ground surface via positive pressure tremie.

[2] Proposed new well locations called N-1 and N-2 in the Work Plan were subsequently changed to MW-108 and MW-109, respectively, during the field investigation, continuing the well numbering sequence for other monitoring wells onsite.

A nested well pair was not constructed at the MW-109 location proposed in the Work Plan for the following reasons:

- With an estimated depth to water of 84 feet bgs and a maximum well depth of 108 feet bgs, only 24 feet were available for nested well construction.
- Of this 24-foot interval, approximately 3.5 feet were composed of lean clay materials near the water table with limited to no free water present, indicating that the available saturated thickness for well construction was approximately 20.5 feet bgs.
- A very fine sand to silty sand present from 88 to 98 feet bgs was expected to yield little water.

Consequently, a single completion well was constructed at this location, with a screen interval from 93 to 103 feet bgs.

### 3.3.2 Nested Monitoring Wells

Following drilling, the exploratory 10-inch borehole advanced at the MW-108 location was converted into a nested well pair, with two screen depths within the Upper Aquifer. See Table 3-1 for well construction details.

The MW-108S/D wells (screened from 83 to 98 and 108 to 118 feet bgs) were constructed within a 10-inch-diameter rotosonic drill casing after reaching the blue clay at approximately 118 feet bgs. The shallow well was designed to monitor water table groundwater conditions, while the deep well was designed to monitor groundwater conditions in the deep zone of the Upper Aquifer. The impression from a former dairy pond is located approximately 50 feet upgradient of this well cluster.

Each well was constructed with threaded, 2-inch-diameter, Schedule 40 PVC casing and screen (0.02-inch factory slotted). Filter pack material consisting of #2/12 Monterey silica sand was installed from 1 foot below the bottom of each well screen to 2 feet above the top of the each screened interval, followed by 1 foot of #030 fine transition sand. The screened interval of the lower interval was sealed from the upper interval with bentonite chips to 1 foot below the bottom of the upper well screen. The upper screened interval was then sealed from the surface seal with 5 feet of hydrated bentonite chips. Grout was installed from the top of the upper bentonite seal to near ground surface via positive pressure tremie.

## 3.4 Well Development

Well development activities were performed from June 1 to 2, 2011 following a minimum of 48 hours after installation of the annular seal at each monitoring well. Well development equipment was decontaminated prior to initial use and after the development of each well.

Well development was accomplished using a combination of surging, swabbing, and pumping throughout the length of the well screen. Surging and swabbing began at the bottom of the screen and proceeded upwards. Following surging and swabbing, the wells were pumped to remove the fine materials that were drawn into the well. Development continued until field water quality parameters had stabilized, and each location had a

turbidity reading of 4 or less Nephelometric turbidity units. A minimum of 18 casing volumes were extracted from each monitoring well during development.

## 3.5 Groundwater Monitoring Well Sampling and Laboratory Methods

Existing monitoring wells were sampled from April to June, following procedures used for PG&E's sitewide groundwater monitoring program (CH2M HILL, 2010). Following the installation and development of each new well, groundwater samples were collected on June 6, 2011. Samples were submitted for analysis at a State-certified laboratory. The well locations are shown on Figure 3-1.

### 3.5.1 Groundwater Monitoring Well Sampling

All of the groundwater samples identified in the Work Plan were collected, except at well MW-19. The dedicated pump in this well was found to be inoperable at the time of sample collection. Plans to remove the broken pump and collect a sample in early July are currently underway. A review of historical data for MW-19 (screened in the deep zone of the Upper Aquifer) and data from other monitoring wells indicated that additional data from MW-19 were not needed to meet the objectives of the PG&E nitrate investigation.

Groundwater samples were collected a minimum of 72 hours following well development, and in accordance with the *PG&E Program Quality Assurance Plan* (CH2M HILL, 2010). Prior to collecting groundwater samples, depth-to-water measurements were performed relative to the top of each well casing to the nearest 0.01 (one-hundredth) of a foot. The wells were then purged while monitoring to obtain stabilization in field parameters (measured using a flow-through cell). Field purge logs are provided in Appendix C.

### 3.5.2 Laboratory Methods

After parameter stabilization, groundwater samples were collected in accordance with the methods and procedures established for the sitewide Ground Monitoring Program (CH2M HILL, 2010) for the following analyses:

- Chloride (United States Environmental Protection Agency [USEPA] Method 300.0)
- Nitrate as N (USEPA Method 300.0; can be converted to $NO_3$)
- Total potassium (USEPA Method 6010B)
- Total dissolved phosphorus (orthophosphate) (USEPA SM4500-PE)
- Total sodium (USEPA Method 6010B)
- Sulfate (USEPA Method 300.0)
- Specific conductance (E120.1)
- TDS (USEPA Method SM2540C)

- Fecal and total coliform were also analyzed for samples collected within 2,600 feet of the DVD (SM9221B/E)

Duplicate groundwater samples were collected at a 10 percent frequency. Following sample collection, the samples were recorded on chain-of-custody forms. The containers were labeled and immediately stored on ice and were shipped to Truesdail Laboratory, Inc. in Tustin, California (State Certification Environmental Laboratory Accreditation Program #1237) under chain-of-custody documentation. Analytical laboratory reports and chain-of-custody documentation are provided in Appendix C.

## 3.6 Data Quality Evaluation Summary

This data quality evaluation summary assesses the data quality of analytical results obtained for the investigation. The laboratory analytical data were reviewed to assess data quality and to identify deviations from analytical requirements. Data qualifying flags were assigned following the criteria and procedures in the Program Quality Assurance Plan (CH2M HILL, 2010). This review addressed 121 groundwater samples, 14 field duplicates, and the associated quality control samples. These samples were reported by the laboratory in 27 sample delivery groups.

The continuing calibration verification standard recoveries for two chloride (Method E300.0) samples were outside the control limits. The associated detect sample results were qualified and flagged "J". The results for one field duplicate pair were outside the control limits for chloride, sulfate, and nitrate (Method E300.0). The detect results were qualified and flagged "J". One total dissolved solid, two nitrate-N and eight orthophosphate samples were analyzed outside the EPA recommended holding time. The non-detect sample results were qualified and flagged "UJ". The detect results were qualified and flagged "J".

## 3.7 Investigation-derived Waste Management

Investigation-derived waste was managed in accordance with the procedures detailed in the Work Plan. Solid and liquid wastes generated during the PG&E nitrate investigation were temporarily stored at the work area in portable tanks (liquids) and hoppers (drill cuttings). Drill cuttings were transferred to a lined roll-off bin located at the equipment staging area pending characterization sampling. Well development water was contained at each well location in a polyethylene tank. The tank was subsequently transported to the central area in-situ reactive zone for injection. Incidental trash was removed from the work area each day, and this material was transferred to a standard trash bin for offsite disposal.

Approximately 14 cubic yards of drill cuttings were generated at the former NDD. The cuttings were stored at a staging area located on the former NDD. Composite soil characterization samples were collected following investigation activities. The samples were submitted to the certified laboratory Advanced Technology Laboratories Inc. for analyses of:

- Title 22 Metals using USEPA Method 6010B
- Diesel- and motor-oil-range organics using USEPA Method 8015B
- Gasoline-range organics using USEPA Method 8015B
- Nitrogen, nitrate (as N) using USEPA Method 300.0

- Mercury using USEPA Method 7471A
- Volatile organic compounds using USEPA Method 8260B

Laboratory results for all analytes indicated that the drill cuttings were non-hazardous. Most analytes were below reporting limits, and the metals that were detected were below the United States and California EPA regional residential and industrial screening levels for soil. The sole exception was arsenic, which was reported at a low concentration of 2.1 milligrams per kilogram, which is believed to reflect background concentration. On June 27, 2011, Water Board staff approved the spreading of the soil cuttings on PG&E property. The laboratory results for the investigation-derived waste sample are provided in Appendix C.

# 4.0 Investigation Results

This section presents the results of the lithologic logging and water quality sampling conducted for the investigation. Analytical data for the DVD area are presented to show the broader distribution of nitrate and TDS; however, the complete findings of the DVD nitrate investigation will be presented in a separate report for the DVD.

## 4.1 Lithology

Two hydrogeologic cross sections were prepared to illustrate drilling results and hydrogeologic data. Hydrogeologic cross-sections A-A′ and B-B′ are presented on Figures 4-1, and 4-2, respectively. These cross sections present the interpreted hydrostratigraphy, well screen intervals, primary lithologic contacts, and the nitrate-N and TDS laboratory analytical results from selected wells sampled for the investigation (these results are discussed in Section 4.2). The locations of these cross-sections are shown on Figure 3-1.

A complete lithologic log was developed for each investigation borehole. For additional details, including Unified Soil Classification System designation, see Appendix B-1.

## 4.2 Groundwater Quality in the Former Nelson-Diaz Dairy and Field Crop Parcel Areas

This section presents the analytical results for groundwater samples collected during the investigation. The following subsections detail the results for nitrate, TDS, chloride, potassium, dissolved phosphorous (orthophosphate), sodium, and sulfate, as well as total and fecal coliform results for samples collected within 2,600 feet of the DVD.

Table 4-1 presents the analytical results for wells sampled for the PG&E investigation. Table 4-2 presents results for groundwater samples collected as part of the DVD investigation. Figures 4-1 and 4-2 present hydrogeologic cross sections, with sample results shown for nitrate and TDS. For analytical results presentation, the Upper Aquifer has been divided into two zones (shallow and deep) to assess the vertical and lateral distribution of nitrate and TDS. Maps with isoconcentration contours for nitrate-N and TDS in shallow and deep wells of the Upper Aquifer are presented on Figures 4-3 through 4-6, respectively. Historical analytical data for wells are listed in Appendix D.

### 4.2.1 Sample Results for Nitrate

Figures 4-1 to 4-4 show the nitrate-N distribution in the shallow and deep zones of the Upper Aquifer, respectively, in the study area. Key observations from these figures are summarized in the following subsections.

#### 4.2.1.1 Shallow Wells of Upper Aquifer

A review of the distribution of nitrate-N in the shallow zone of the Upper Aquifer indicates the following:

- Nitrate-N concentrations approximately twice the MCL (10 mg/L) were reported for shallow wells located cross and upgradient of the former FCP (MW-07, MW-27A, and MW-49S) and northwest of the former NDD (MW-59).
- Nitrate-N concentrations reported for shallow wells located on the former NDD and FCP parcels were generally comparable to results for wells located upgradient and crossgradient to the east. The highest nitrate-N concentrations on the former NDD and FCP parcels were reported for shallow wells located on the northern boundary of the former FCP property (MW-22A1, MW-22A2, MW-24A1, and MW-26) and near the center of the property (MW-10) at concentrations ranging from 21.1 to 31.4 mg/L. In the records review, there are no indications of former ponds or dairy activities in the area of these wells (see Appendix A).
- The nitrate-N concentration (12.5 mg/L) reported for newly installed shallow well MW-108S, located approximately 50 feet downgradient from the former pond at the NDD, is consistent with concentrations in other upgradient shallow wells, indicating that impacts to the aquifer from the pond are minimal or none in this portion of the NDD.

#### 4.2.1.2 Deep Wells in Upper Aquifer

A review of the distribution of nitrate-N in the deep zone of the Upper Aquifer indicates the following:

- Nitrate-N concentrations reported for deep wells located on the former NDD and FCP parcels were generally higher than results for deep wells located upgradient and crossgradient.
- Upgradient deep wells MW-14B and MW-38B reported nitrate-N concentrations of approximately 5 mg/L, while nitrate-N concentrations of 11.6 and 14.6 mg/L were reported for crossgradient wells MW-27B and MW-49B, located east of the FCP parcel.
- The highest nitrate-N concentrations on the former NDD and FCP were reported for wells located on the northern boundary of the former FCP property (MW-22B, MW-23B, MW-24B, and MW-25B) at concentrations ranging from 13.5 to 17.8 mg/L.

Shallow and deep wells located in the freshwater injection area (along Serra Road), west of the former NDD, reported some of the lowest nitrate-N concentrations. These results appear to be influenced by the freshwater injection system that began full-scale operation in March 2010 (CH2M HILL and ARCADIS, 2011a). A review of historical groundwater analytical data for monitoring wells in this area indicates that nitrate-N concentrations at many wells were higher than the concentrations reported during this investigation prior to start up of the freshwater injection system (see Appendix D).

### 4.2.2 Sample Results for TDS

Groundwater samples collected for TDS were also used to assess potential impacts due to former dairy activities. The CA secondary MCL for TDS is 1,000 mg/L. The TDS distribution in shallow and deep wells of the Upper Aquifer is presented on Figures 4-1, 4-2, 4-5, and 4-6 and is summarized in the following subsections.

#### 4.2.2.1 Shallow Wells of Upper Aquifer

A review of the distribution of TDS in the shallow zone of the Upper Aquifer indicates the following:

- Consistent with the distribution of nitrate-N, the highest TDS concentrations were reported for wells screened in the shallow zone of the Upper Aquifer.
- The TDS concentrations in shallow wells located upgradient and east of the former NDD and FCP are mostly higher than the California secondary MCL concentration of 1,000 mg/L.
- West (crossgradient) of the former NDD, some of the lowest TDS concentrations reported during the investigation were observed. As described in Section 4.2.1.2, this is believed to be partly due to the freshwater injection system. TDS concentrations reported for shallow wells located on the former NDD are generally comparable to upgradient concentrations. The TDS concentration (1,190 mg/L) for newly installed shallow well MW-108S (located approximately 50 feet downgradient of the former dairy pond on the NDD) was similar to upgradient TDS concentrations.
- Consistent with the distribution of nitrate-N, the TDS concentrations reported for three shallow wells (MW-22A1, MW-23A, and MW-24A1) located at the northern boundary of former FCP were approximately twice the California secondary MCL and about twice the upgradient concentrations.

#### 4.2.2.2 Deep Wells in Upper Aquifer

A review of the distribution of TDS in the deep zone of the Upper Aquifer indicates the following:

- TDS concentrations reported for deep wells located on and east of the former NDD and FCP were similar. These results were generally higher than the TDS concentrations reported for up- and crossgradient wells to the west.
- Similar to deep wells located on the NDD and FCP parcels, a TDS concentration of 1,060 mg/L was reported for crossgradient well MW-49B, located approximately 2,000 feet east of the former FCP.
- The TDS concentration reported for newly installed deep well MW-108D, located approximately 50 feet downgradient of the former dairy pond at the NDD, was 1,140 mg/L.

### 4.2.3 Sample Results for Other Water Quality Parameters

Sample results for the NDD and FCP are presented in Table 4-1. Monitoring locations are presented on Figure 3-1. Available historical groundwater analytical data are listed in Appendix D.

#### 4.2.3.1 Total and Fecal Coliform

Total coliform occurs naturally in the environment and may be related to animal feces or other biological processes. Fecal coliforms are only present if animal or human feces are present. Therefore, fecal coliform is considered to be an indication of impact by dairy activities, but the presence of total coliform does not necessarily indicate the same.

A review of Table 4-1 reveals the following observations:

- Total coliform was detected in eight of the 40 samples that were collected. All detections were from wells screened in the shallow zone of the Upper Aquifer.
- The highest total concentration (33 most probable number per milliliter [MPN/mL]) was reported for well MW-22A1, located at the north-central portion of the FCP. The other detections for total coliform were near the laboratory reporting limit (2 MPN/mL) at concentrations less than 5 MPN/mL.
- Fecal coliform was not detected above laboratory reporting limits in any of the 40 samples collected in the NDD and FCP parcels.
- Nondetect concentrations of fecal coliform and low detections for total coliform indicate limited to no coliform resulting from dairy activities on the NDD and FCP parcels.

#### 4.2.3.2 Dissolved Phosphorous (Orthophosphate)

Phosphorous is another indicator of animal waste. Orthophosphate samples were collected at all monitoring well locations in the NDD and FCP area. An evaluation of Table 4-1 indicates nondetect to low concentrations of orthophosphate at all monitoring wells sampled in the NDD and FCP nitrate investigation. Orthophosphate was detected at both shallow and deep upgradient and crossgradient monitoring wells (MW-14B, MW-49S, MW-64A, MW-66A, MW-75D, MW-76D, and MW-95S) at concentrations similar to wells located on the NDD and FCP parcels. The impacts of orthophosphate to the aquifer from the former NDD and FCP are inconclusive.

#### 4.2.3.3 Chloride, Potassium, Sodium, Sulfate, and Specific Conductance

Chloride, potassium, sodium, sulfate, and specific conductance samples were also collected at all monitoring well locations. The secondary California MCL for the anions chloride and sulfate is 250 mg/L. Chloride, sodium, and sulfate generally comprise a large portion of TDS. Elevated concentrations of these constituents are expected to be associated with elevated TDS and specific conductance concentrations. As anticipated, Table 4-1 shows a strong correlation between the concentrations of chloride, sodium, and sulfate and specific conductance and the TDS distribution.

## 4.3 Groundwater Quality beneath the Desert View Dairy

As previously stated, the objective of this report was to assess the distribution of nitrate-N and TDS in groundwater beneath the former NDD and FCP parcels. A complete analysis of the DVD area will be presented in another report prepared by CRA. However, because the former NDD and FCP properties border the DVD, and high concentrations of nitrate-N and TDS were reported for monitoring wells on the DVD, a brief assessment of these data was performed and can be summarized as follows:

- On the DVD, nitrate-N concentrations up to 14 times greater than the California MCL of 10 mg/L were reported for shallow zone wells of the Upper Aquifer, with the greatest concentrations reported for wells located on the northern half of the DVD property.
- TDS concentrations followed a similar distribution, with concentrations up to five times greater than the secondary California MCL in shallow zone wells. Impacts of nitrate-N and TDS to deep zone wells of the Upper Aquifer were less.
- A nitrate-N concentration of 37.3 mg/L and a TDS concentration of 3,220 mg/L were reported for shallow well DW-01, located approximately 500 feet downgradient of the FCP. Livestock pens and a former pond are visible in the vicinity in historical aerial photos (shown in Appendix A).

# 5.0 Conclusions and Recommendations

During PG&E's nitrate investigation of the former NDD and FCP, four groundwater monitoring wells were installed at three locations. Groundwater samples were collected from the newly installed wells and from 65 existing wells to assess the distribution of nitrate and TDS. The following subsections summarize the findings of the investigation and make recommendations for no further investigation of the NDD and FCP parcels.

## 5.1 Summary and Conclusions

Nitrate-N and TDS results for groundwater samples collected from the Upper Aquifer were generally consistent with historical results for existing wells. Nitrate-N and TDS concentrations are typically higher in the shallow zone than in the deep zone of the Upper Aquifer. Concentrations of nitrate-N and TDS are present above the California primary and secondary MCLs, respectively, in shallow zone Upper Aquifer monitoring wells located up- and crossgradient and on the former NDD and FCP parcels.

The key findings of the investigation include:

- The highest nitrate-N concentrations (31.4, 26.2, and 25.4 mg/L) for shallow and deep wells of the Upper Aquifer were detected in wells (MW-22A1, MW-22A2, and MW-24A1), located on the northern boundary of the former FCP property (bordering the DVD).
- Nitrate-N concentrations of 10 to 19 mg/L were typically detected in shallow wells located on, east (cross-gradient) of, and upgradient of the NDD and FCP parcels
- The highest nitrate-N concentration (23.8 mg/L) observed upgradient of the NDD and FCP parcels was reported for well MW-07, which is located upgradient of the FCP parcel.
- TDS concentrations in shallow wells upgradient and east of the former NDD and FCP parcels are generally higher than the California secondary MCL of 1,000 mg/L. TDS concentrations reported for shallow wells located on the former NDD and FCP parcels were generally similar to upgradient concentrations, with the exception of the results for three shallow wells (MW-22A1, MW-23A, and MW-24A1) located on the northern portion of the FCP. Concentrations in these three wells were approximately twice those reported for upgradient wells.
- TDS concentrations reported for deep wells on and east of the former NDD and FCP parcels were comparable and generally were a few hundred mg/L higher than the TDS concentrations reported for upgradient and crossgradient deep wells to the west.
- The TDS concentrations reported for the newly installed shallow and deep well nest MW-108S/D, located approximately 50 feet downgradient from the former pond at the NDD, were similar to concentrations reported for other wells located on the NDD and

FCP parcels. Based on these results, contributions to TDS from the former pond, if any, are not discernible.

- On the DVD, nitrate-N concentrations for shallow zone wells of the Upper Aquifer are up to 14 times higher than the California primary MCL of 10 mg/L. The greatest concentrations were detected in samples collected from wells located in the northern half of the DVD. TDS concentrations followed a similar distribution, with concentrations up to five times higher than the secondary California MCL. Impacts of nitrate-N and TDS to deep zone wells of the Upper Aquifer on the DVD were less.
- The contribution of nitrate-N and TDS from the former NDD and FCP to the Upper Aquifer appears to be nominal or not discernable compared with levels in upgradient and eastern crossgradient shallow and deep wells. Because operation of the freshwater injection system is likely a factor in lowering nitrate-N and TDS concentrations west of the former NDD parcel, comparison to this area is not appropriate.
- Based on quarterly groundwater level measurements, nitrate-N and TDS that are potentially migrating beneath the former NDD and FCP are being captured by PG&E's DVD land treatment unit extraction wells. The land treatment unit has been operating since March 2005 for the purposes of controlling the chromium plume (see EX-series wells on Figure 1-1) (CH2M HILL and ARCADIS, 2011b).
- Prior to operation of the DVD land treatment unit in 2005, extraction wells IW-01 and IW-02, located at the northern (downgradient) boundary of the former FCP parcel, were installed in 1992 and operated intermittently from 1996 to 2001.

In addition, PG&E began operating an agricultural pivot on the FCP parcel in June 2011, with groundwater extraction from up to three wells (IW-1, IW-2 and IW-3) located along the northern boundary of this property, as shown on Figure 1-1. Groundwater extraction and operation of the agricultural unit is planned on a year-round basis, with continuous operation of at least one of the IW-series wells. Extraction from the IW-series wells will provide additional hydraulic control of nitrate-N and TDS.

## 5.2 Recommendations

The objectives of PG&E's nitrate investigation have been achieved. The area of impact beneath and upgradient of the NDD and FCP parcels has been defined. No further investigation on or upgradient of the NDD and FCP parcels is recommended.

# 6.0 References


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# Tables

TABLE 3-1

Summary of Well Installation Details

*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*

*Pacific Gas and Electric Company Compressor Station, Hinkley, California*

| Site | Well ID | Date Installed | Location Description | Total Boring Depth | Monitoring Zone | Screen Length | Ground Surface Elevation (estimated) | Top of Screen | | Bottom of Screen | | Well Diameter PVC | Boring Diameter | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | (ft bgs) | | (feet) | (NAVD 88) | Depth (ft bgs) | Elevation (ft MSL) | Depth (ft bgs) | Elevation (ft MSL) | (inch) | (inch) | |
| **MW-14S** | **MW-14S** | 5/18/2011 | permanent MW | 97.5 | Shallow Upper Aquifer | 15 | 2181 | 82 | 2099 | 97 | 2084 | 2 | 6 | |
| **MW-108 (aka N-1)** | **MW-108S** | 5/24/2011 | permanent MW (nested completion) | 125 | Shallow Upper Aquifer | 15 | 2174 | 83 | 2091 | 98 | 2076 | 2 | 10 | |
| | **MW-108D** | 5/24/2011 | permanent MW (nested completion) | 125 | Deep Upper Aquifer | 10 | 2174 | 108 | 2066 | 118 | 2056 | 2 | 10 | |
| **MW-109 (aka N-2)** | **MW-109** | 5/27/2011 | permanent MW (single completion) | 101 | Shallow Upper Aquifer | 10 | 2173 | 93 | 2080 | 103 | 2070 | 2 | 10 | Well nest was planned for this location, however aquifer was too thin (less than 20 feet) for nested well construction. Single completion installed. |

**Abbreviations:**

ft bgs = feet below ground surface

MW = monitoring well

**Notes:**

a) Elevations are NAVD 88; essentially equivalent to mean sea level (MSL). Ground surface elevations rounded to 0.0 foot; screen depths rounded to whole-foot.

b) Well locations MW-108 and MW-109 were called N-1 and N-2 in the Work Plan, but well names were subsequently changed during the investigation.

c) 20-feet of 7-inch temporary conductor casing was installed prior to advancing MW-14S borehole.

d) 20-feet of 12-inch temporary conductor casing was installed at MW-108 and MW-109 prior to advancing boreholes.

TABLE 3-2
Groundwater Monitoring Wells, Former Nelson-Diaz Dairy and Field Crop Parcel
*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*
*Pacific Gas and Electric Company Compressor Station, Hinkley, California*

| Well ID | Well Type | Rationale | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) |
|---|---|---|---|---|
| | | Downgradient Former Nelson-Diaz Dairy and Field Crop Parcel | | |
| MW-109 | New | Downgradient (northwest) of NDD; Mountain View Road and Santa Fe Avenue | 93 | 103 |
| | | Within Property Boundary - Former Nelson-Diaz Dairy and Field Crop Parcel | | |
| MW-108S | New | Near former settling pond within the boundary of Nelson-Diaz Dairy; Mountain View Road and Santa Fe Avenue | 82 | 98 |
| MW-108D | New | Near former settling pond within the boundary of Nelson-Diaz Dairy; Mountain View Road and Santa Fe Avenue | 105 | 115 |
| MW-22A1 | Existing | North central Field Crop Parcel; south of Santa Fe Avenue | 69 | 89 |
| MW-22A2 | Existing | North central Field Crop Parcel; south of Santa Fe Avenue | 90 | 100 |
| MW-22B | Existing | North central Field Crop Parcel; south of Santa Fe Avenue | 115 | 125 |
| MW-24A1 | Existing | Northeast Field Crop Parcel; south of Santa Fe Avenue | 76 | 96 |
| MW-24A2 | Existing | Northeast Field Crop Parcel; south of Santa Fe Avenue | 114 | 124 |
| MW-24B | Existing | Northeast Field Crop Parcel; south of Santa Fe Avenue | 144 | 154 |
| MW-25A2 | Existing | Northeast Field Crop Parcel; south of Santa Fe Avenue | 113 | 123 |
| MW-25B | Existing | Northeast Field Crop Parcel; south of Santa Fe Avenue | 133 | 143 |
| MW-10 | Existing | Central Field Crop Parcel; south of Santa Fe Avenue | 118 | 127.5 |
| IW-01 | Existing | Northern boundary of Field Crop Parcel; south of Santa Fe Avenue | 95 | 135 |
| IW-02 | Existing | Northern boundary of Field Crop Parcel; south of Santa Fe Avenue | 120 | 150 |
| MW-26 | Existing | Northern boundary of Field Crop Parcel; south of Santa Fe Avenue | 96 | 106 |
| EX-22 | Existing | Southwestern boundary of Field Crop Parcel; south of Santa Fe Avenue | 97 | 137 |
| MW-23A | Existing | On boundary between NDD and Field Crop Parcel; south of Santa Fe Avenue | 76 | 96 |
| MW-23B | Existing | On boundary between NDD and Field Crop Parcel; south of Santa Fe Avenue | 103 | 113 |
| MW-19 | Existing | On boundary between NDD and Field Crop Parcel; south of Santa Fe Avenue | 114 | 124 |
| MW-28A | Existing | On western boundary of NDD; along Mountain View Road | 82.9 | 92.9 |
| MW-28B | Existing | On western boundary of NDD; along Mountain View Road | 96.8 | 106.8 |
| | | Upgradient - Former Nelson-Diaz Dairy and Field Crop Parcel | | |
| MW-14S | New | Water table well; Upgradient; south of the Field Crop Parcel; between Mountain View and Summersett roads on Highway 58 | 82 | 97 |
| MW-14A | Existing | Upgradient; south of the Field Crop Parcel; between Mountain View and Summersett roads south of Highway 58 | 100 | 110 |
| MW-14B | Existing | Upgradient; south of the Field Crop Parcel; between Mountain View and Summersett roads south of Highway 58 | 132 | 142 |
| MW-38A | Existing | Upgradient; southwest of NDD; on Mountain View Road south of Highway 58 | 94.4 | 104.4 |
| MW-38B | Existing | Upgradient; southwest of NDD; on Mountain View Road south of Highway 58 | 115.7 | 125.7 |
| EX-21 | Existing | Upgradient; southwest of NDD; on Mountain View Road north of Highway 59 | 97 | 137 |
| | | Crossgradient - Former Nelson-Diaz Dairy | | |
| EX-15 | Existing | West of NDD; along Mountain View Road | 92 | 117 |
| EX-16 | Existing | West of NDD; along Mountain View Road | 93 | 118 |
| WA-MW-01A | Existing | Southwest of NDD; west of Mountain View Road | 87.5 | 97.5 |
| WA-MW-01B | Existing | Southwest of NDD; west of Mountain View Road | 105 | 115 |
| WA-MW-04A | Existing | West of NDD; west of Mountain View Road | 87 | 97 |
| WA-MW-04B | Existing | West of NDD; west of Mountain View Road | 97 | 107 |
| EX-20 | Existing | Southwest of NDD; west of Mountain View Road | 106 | 125 |
| | | Background: Upgradient and Crossgradient Wells | | |
| MW-41A | Existing | Background crossgradient to Field Crop Parcel (northeast); north of Santa Fe Ave near Summersett | 125.6 | 135.6 |
| MW-41B | Existing | Background crossgradient to Field Crop Parcel (northeast); north of Santa Fe Ave near Summersett | 158.9 | 168.9 |
| MW-41S | Existing | Background crossgradient to Field Crop Parcel (northeast); north of Santa Fe Ave near Summersett | 81 | 96 |
| MW-49A | Existing | Background crossgradient to Field Crop Parcel (east); south of Santa Fe Avenue on Summersett | 115.5 | 125.5 |
| MW-49B | Existing | Background crossgradient to Field Crop Parcel (east); south of Santa Fe Avenue on Summersett | 135.4 | 145.4 |
| MW-49S | Existing | Background crossgradient to Field Crop Parcel (east); south of Santa Fe Avenue on Summersett | 90 | 105 |
| MW-27A | Existing | Background crossgradient to Field Crop Parcel (southeast) | 104.2 | 114.2 |
| MW-27B | Existing | Background crossgradient to Field Crop Parcel (southeast) | 130.3 | 140.3 |
| MW-07 | Existing | Background crossgradient to Field Crop Parcel (southeast) | 105 | 114.5 |
| MW-33A | Existing | Background upgradient NDD (southeast); south of Santa Fe Avenue on Summersett | 98.2 | 108.2 |
| MW-33B | Existing | Background upgradient NDD (southeast); south of Santa Fe Avenue on Summersett | 137.4 | 147.4 |
| MW-95S | Existing | Background upgradient NDD (southeast) | 95 | 110 |
| MW-95D | Existing | Background upgradient NDD (southeast) | 153 | 163 |
| MW-75D | Existing | Background upgradient; southwest of NDD; on Mountain View Road south of Highway 58 | 115 | 130 |
| MW-82S | Existing | Background upgradient (west-northwest) of NDD; south Santa Fe Avenue | 79 | 89 |
| EX-05 | Existing | Background upgradient (west-northwest) of NDD; south Santa Fe Avenue | 92 | 112 |
| EX-06 | Existing | Background crossgradient (west) of NDD; west of Mountain View Road | 95 | 115 |
| EX-08 | Existing | Background upgradient (west-northwest) of NDD; south Santa Fe Avenue | 85 | 110 |
| EX-10 | Existing | Background upgradient (west-northwest) of NDD; south Santa Fe Avenue | 87 | 102 |
| EX-14 | Existing | Background upgradient (west-northwest) of NDD; south Santa Fe Avenue | 84 | 94 |

TABLE 3-2
Groundwater Monitoring Wells, Former Nelson-Diaz Dairy and Field Crop Parcel
*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*
*Pacific Gas and Electric Company Compressor Station, Hinkley, California*

| Well ID | Well Type | Rationale | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) |
|---|---|---|---|---|
| EX-17 | Existing | Background upgradient/crossgradient (southwest) of NDD; on Santa Fe Avenue | 83 | 118 |
| MW-44A | Existing | Background upgradient; southwest of NDD; west of Mountain View Road | 93.8 | 103.8 |
| MW-44B | Existing | Background upgradient; southwest of NDD; west of Mountain View Road | 107.7 | 117.7 |
| MW-45A | Existing | Background crossgradient (west) of NDD; west of Mountain View Road | 94.8 | 104.8 |
| MW-45B | Existing | Background crossgradient (west) of NDD; west of Mountain View Road | 110.3 | 120.3 |
| MW-47 | Existing | Background crossgradient (west-northwest) of NDD; south of Santa Fe Avenue | 93.3 | 103.3 |
| MW-47A | Existing | Background crossgradient (west-northwest) of NDD; south of Santa Fe Avenue | 82 | 92 |
| MW-54 | Existing | Background upgradient; southwest of NDD; west of Mountain View Road | 93.5 | 103.5 |
| MW-58 | Existing | Background crossgradient (west) of NDD; west of Mountain View Road | 95 | 105 |
| MW-59 | Existing | Background crossgradient (west-northwest) of NDD; south of Santa Fe Avenue | 85 | 95 |
| MW-64A | Existing | Background upgradient; southwest of NDD; west of Mountain View Road | 94 | 104 |
| MW-64B | Existing | Background upgradient; southwest of NDD; west of Mountain View Road | 109 | 119 |
| MW-66A | Existing | Background crossgradient (west) of NDD; west of Mountain View Road | 96 | 106 |
| MW-76S | Existing | Background crossgradient (southwest) of NDD; west of Mountain View Road | 95 | 110 |
| MW-76D | Existing | Background crossgradient (southwest) of NDD; west of Mountain View Road | 120 | 130 |

Notes:
D = Deep or lowermost upper aquifer
DVD = Desert View Dairy
ft bgs = feet below ground surface
NDD = Nelson-Diaz Dairy

Table 4-1

Groundwater Analytical Results, Former Nelson-Diaz Diary and Field Crop Parcel

*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*

*Pacific Gas and Electric Company Hinkley Compressor Station, Hinkley, California*

| Location | Date | Sample Type | Potassium | Sodium | Chloride | Nitrate (as nitrogen) | Sulfate | Coliform, Fecal | Coliform, Total | Orthophosphate, dissolved | Specific conductance | Total dissolved solids |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | MPN/100mL | MPN/100mL | mg/L | µS/cm | mg/L |
| EX-05 | 05/02/11 | | 4.54 | 97.8 | 174 | 8.50 | 182 | ND (2) | ND (2) | 0.0238 | 1280 | 780 |
| EX-06 | 05/02/11 | | 4.91 | 87.4 | 190 | ND (0.5) | 155 | ND (2) | ND (2) | ND (0.02) | 1190 | 690 |
| EX-08 | 05/02/11 | | 6.30 | 109 | 204 | 16.5 | 253 | ND (2) | 5.00 | ND (0.02) | 1550 | 1010 |
| EX-10 | 05/02/11 | | 4.33 | 84.8 | 154 | 9.42 | 85.5 | ND (2) | ND (2) | ND (0.02) | 937 | 535 |
| EX-14 | 05/02/11 | | 4.78 | 123 | 382 | 5.54 | 300 | ND (2) | ND (2) | ND (0.02) | 1960 | 1200 |
| | 05/02/11 | FD | 4.76 | 124 | 388 | 6.53 | 305 | ND (2) | ND (2) | ND (0.02) | 1980 | 1240 |
| EX-15 | 05/02/11 | | 6.08 | 134 | 176 | 10.9 | 240 | ND (2) | ND (2) | 0.0263 | 1580 | 1000 |
| EX-16 | 05/02/11 | | 6.79 | 157 | 186 | 12.0 | 311 | ND (2) | ND (2) | 0.0305 | 1800 | 1220 |
| EX-17 | 05/02/11 | | 4.42 | 53.3 | 40.6 | ND (0.5) | 28.7 | ND (2) | 5.00 | 0.0312 | 440 | 274 |
| EX-20 | 05/02/11 | | 6.44 | 147 | 185 | 10.5 | 306 | ND (2) | ND (2) | 0.0244 | 1750 | 1150 |
| EX-21 | 05/02/11 | | 7.08 | 146 | 235 | 8.73 | 373 | --- | --- | 0.0312 | 1710 | 1120 |
| EX-22 | 05/02/11 | | 6.18 | 168 | 141 | 11.8 | 224 | --- | --- | 0.036 | 1580 | 1020 |
| IW-01 | 05/10/11 | | 4.56 | 165 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 06/15/11 | | --- | --- | 151J | 15.5 | 276 | ND (2) | ND (2) | 0.0495 | 1760 | 1150 |
| IW-02 | 05/10/11 | | 4.50 | 158 | --- | --- | --- | --- | --- | --- | --- | --- |
| | 06/15/11 | | --- | --- | 134J | 15.7 | 234 | ND (2) | ND (2) | 0.0434 | 1660 | 1050 |
| MW-07 | 05/05/11 | | 3.92 | 213 | 119 | 22.9 | 187 | --- | --- | ND (0.02) | 1680 | 1110 |
| | 05/05/11 | FD | 3.96 | 215 | 119 | 23.8 | 187 | --- | --- | ND (0.02) | 1680 | 1110 |
| MW-10 | 05/05/11 | | 5.14 | 126 | 117 | 22.0 | 186 | ND (2) | ND (2) | ND (0.02) | 1370 | 910 |
| MW-14A | 05/05/11 | | 4.19 | 147 | 118 | 15.4 | 208 | --- | --- | ND (0.02) | 1560 | 1070 |
| MW-14B | 05/05/11 | | 5.86 | 89.7 | 104 | 5.01 | 108 | --- | --- | 0.0234 | 1360 | 662 |
| MW-14S | 06/06/11 | | 7.35 | 162 | 181 | 13.5 | 356 | ND (2) | ND (2) | ND (0.02) | 1890 | 1250 |
| MW-22A1 | 05/05/11 | | 6.29 | 374 | 484 | 31.2 | 682 | ND (2) | 33.0 | ND (0.02) | 3420 | 2480 |
| | 05/05/11 | FD | 6.32 | 376 | 484 | 31.4 | 684 | ND (2) | 33.0 | ND (0.02) | 3380 | 2400 |
| MW-22A2 | 05/05/11 | | 5.82 | 228 | 340 | 26.2 | 564 | ND (2) | ND (2) | ND (0.02) | 2920 | 2100 |
| MW-22B | 05/05/11 | | 4.78 | 153 | 114 | 17.8 | 199 | ND (2) | ND (2) | ND (0.02) | 1560 | 1030 |
| MW-23A | 05/03/11 | | 5.26 | 132 | 292 | 15.2 | 250 | ND (2) | 5.00 | ND (0.02) | 2540 | 1670 |
| MW-23B | 05/03/11 | | 5.32 | 161 | 150 | 13.6 | 297 | ND (2) | ND (2) | ND (0.02) | 1750 | 1150 |
| MW-24A1 | 05/04/11 | | 5.36 | 187 | 360 | 25.0 | 627 | ND (2) | ND (2) | ND (0.02) | 2790 | 2090 |
| | 05/04/11 | FD | 5.32 | 192 | 355 | 25.4 | 619 | ND (2) | ND (2) | ND (0.02) | 2790 | 2030 |

Table 4-1

Groundwater Analytical Results, Former Nelson-Diaz Diary and Field Crop Parcel

*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*

*Pacific Gas and Electric Company Hinkley Compressor Station, Hinkley, California*

| Location | Date | Sample Type | Potassium | Sodium | Chloride | Nitrate (as nitrogen) | Sulfate | Coliform, Fecal | Coliform, Total | Orthophosphate, dissolved | Specific conductance | Total dissolved solids |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | MPN/100mL | MPN/100mL | mg/L | µS/cm | mg/L |
| MW-24A2 | 05/04/11 | | 3.66 | 163 | 118 | 12.3 | 202 | ND (2) | ND (2) | ND (0.02) | 1610 | 1060 |
| MW-24B | 05/04/11 | | 3.90 | 163 | 121 | 13.5 | 213 | ND (2) | ND (2) | ND (0.02) | 1610 | 1100 |
| MW-25A2 | 05/04/11 | | 6.30 | 172 | 162 | 14.9 | 268 | ND (2) | ND (2) | ND (0.02) | 1710 | 1170 |
| MW-25B | 05/04/11 | | 6.04 | 175 | 118 | 16.6 | 208 | ND (2) | ND (2) | ND (0.02) | 1630 | 1090 |
| MW-26 | 04/28/11 | | 6.67 | 278 | 360 | 21.1 | 698 | ND (2) | ND (2) | ND (0.02) | 2890 | 2070 |
| MW-27A | 04/28/11 | | 3.80 | 128 | 156 | 17.2 | 307 | --- | --- | ND (0.02) | 1700 | 1130 |
| | 04/28/11 | FD | 3.98 | 126 | 154 | 18.8 | 302 | --- | --- | ND (0.02) | 1700 | 1130 |
| MW-27B | 04/28/11 | | 3.91 | 130 | 125 | 11.6 | 194 | --- | --- | ND (0.02) | 1470 | 936 |
| MW-28A | 05/03/11 | | 4.16 | 110 | 262 | 10.6 | 269 | ND (2) | ND (2) | 0.0209 | 1680 | 1110 |
| MW-28B | 05/03/11 | | 4.90 | 148 | 160 | 14.3 | 272 | ND (2) | ND (2) | ND (0.02) | 1610 | 1090 |
| MW-33A | 04/28/11 | | 4.35 | 212 | 111 | 15.3 | 200 | --- | --- | ND (0.02) | 1660 | 1060 |
| MW-33B | 04/28/11 | | 5.04 | 121 | 112 | 8.73 | 200 | --- | --- | ND (0.02) | 1290 | 820 |
| MW-38A | 04/28/11 | | 6.47 | 136 | 210 | 12.9 | 318 | --- | --- | ND (0.02) | 1840 | 1250 |
| MW-38B | 04/28/11 | | 5.24 | 87.5 | 159 | 5.11 | 202 | --- | --- | ND (0.02) | 1310 | 847 |
| MW-41A | 04/28/11 | | 3.70 | 71.1 | 89.7 | 4.41 | 123 | ND (2) | ND (2) | ND (0.02) | 896 | 574 |
| | 04/28/11 | FD | 3.75 | 72.7 | 90.3 | 4.24 | 124 | ND (2) | ND (2) | ND (0.02) | 900 | 559 |
| MW-41B | 04/28/11 | | 5.63 | 101 | 85.6 | 5.81 | 143 | ND (2) | ND (2) | ND (0.02) | 1080 | 684 |
| MW-41S | 04/28/11 | | 12.1 | 143 | 177 | 16.1 | 365 | ND (2) | 2.00 | ND (0.02) | 1790 | 1250 |
| MW-44A | 04/07/11 | | 3.09 | 75.1 | 93.6 | 4.20 | 169 | --- | --- | --- | 998 | 608 |
| MW-44B | 04/07/11 | | 3.65 | 65.3 | 69.1 | 1.42 | 92.9 | --- | --- | --- | 716 | 430 |
| MW-45A | 04/28/11 | | 4.00 | 98.3 | 169 | 9.48 | 236 | ND (2) | 2.00 | ND (0.02) | 1420 | 905 |
| MW-45B | 04/28/11 | | 4.21 | 65.3 | 105 | 4.62 | 68.5 | ND (2) | ND (2) | ND (0.02) | 806 | 504 |
| MW-47 | 04/28/11 | | 4.45 | 93.7 | 158 | 7.51 | 149 | ND (2) | 2.00 | ND (0.02) | 1160 | 713 |
| MW-47A | 04/28/11 | | 4.85 | 98.1 | 182 | 8.16 | 177 | ND (2) | 2.00 | ND (0.02) | 1260 | 771 |
| | 04/28/11 | FD | 4.94 | 98.3 | 182 | 7.23 | 176 | ND (2) | 2.00 | ND (0.02) | 1240 | 762 |
| MW-49A | 04/28/11 | | 5.82 | 162 | 134 | 13.3 | 249 | --- | --- | ND (0.02) | 1670 | 1120 |
| MW-49B | 04/28/11 | | 5.79 | 166 | 134 | 14.6 | 201 | --- | --- | ND (0.02) | 1590 | 1060 |
| MW-49S | 04/28/11 | | 12.3 | 167 | 184 | 18.0 | 314 | --- | --- | 0.0357 | 1830 | 1210 |
| MW-54 | 04/28/11 | | 3.78 | 64.2 | 64.0 | ND (1) | 105 | --- | --- | ND (0.02) | 726 | 449 |
| MW-58 | 04/28/11 | | 2.45 | 54.3 | 45.7 | 0.646 | 64.6 | --- | --- | ND (0.02) | 547 | 347 |

Table 4-1

Groundwater Analytical Results, Former Nelson-Diaz Diary and Field Crop Parcel

*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*
*Pacific Gas and Electric Company Hinkley Compressor Station, Hinkley, California*

| Location | Date | Sample Type | Potassium | Sodium | Chloride | Nitrate (as nitrogen) | Sulfate | Coliform, Fecal | Coliform, Total | Orthophosphate, dissolved | Specific conductance | Total dissolved solids |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | MPN/100mL | MPN/100mL | mg/L | µS/cm | mg/L |
| MW-59 | 04/28/11 | | 5.57 | 110 | 272 | 18.6 | 128 | --- | --- | ND (0.02) | 1470 | 897 |
| MW-64A | 04/28/11 | | 2.85 | 54.0 | 44.7 | ND (0.5) | 41.7 | --- | --- | 0.0299 | 503 | 323 |
| MW-64B | 04/28/11 | | 3.77 | 53.4 | 48.8 | 1.08 | 51.4 | --- | --- | ND (0.02) | 547 | 350 |
| MW-66A | 04/28/11 | | 3.52 | 78.9 | 132 | 13.1 | 108 | ND (2) | ND (2) | 0.0228 | 954 | 564 |
| MW-75D | 04/28/11 | | 12.7 | 70.4 | 123 | 1.18 | 121 | --- | --- | 0.0366 | 1020 | 627 |
| MW-76D | 04/28/11 | | 4.78 | 55.7 | 49.2 | ND (0.5) | 29.4 | --- | --- | 0.0286 | 542 | 358 |
| MW-76S | 04/28/11 | | 6.81 | 81.9 | 103 | 1.76 | 166 | --- | --- | ND (0.02) | 1020 | 639 |
| MW-82S | 04/28/11 | | 3.56 | 85.7 | 165 | 14.2 | 87.1 | --- | --- | ND (0.02) | 1070 | 624 |
| MW-95D | 04/28/11 | | 11.0 | 131 | 84.5 | 2.10 | 121 | --- | --- | ND (0.02) | 1020 | 629 |
| MW-95S | 04/28/11 | | 16.5 | 125 | 226 | 11.0 | 377 | --- | --- | 0.0251 | 1790 | 1220 |
| MW-108D | 06/06/11 | | 10.5 | 162 | 157 | 9.51 | 301 | ND (2) | ND (2) | 0.0283 | 1730 | 1140 |
| MW-108S | 06/06/11 | | 15.3 | 197 | 196 | 12.5 | 289 | ND (2) | 4.00 | 0.0251 | 1840 | 1190 |
| MW-109 | 06/06/11 | | 12.9 | 132 | 205 | 6.61 | 240 | ND (2) | 6.00 | 0.0443 | 1530 | 924 |
| WA-MW-01A | 04/28/11 | | 6.01 | 99.0 | 195 | 13.2 | 235 | ND (2) | ND (2) | ND (0.02) | 1490 | 953 |
| WA-MW-01B | 04/28/11 | | 7.43 | 116 | 201 | 10.7 | 284 | ND (2) | ND (2) | ND (0.02) | 1620 | 1070 |
| WA-MW-04A | 04/28/11 | | 4.59 | 108 | 187 | 11.4 | 263 | ND (2) | ND (2) | 0.0209 | 1590 | 1020 |
| WA-MW-04B | 04/28/11 | | 5.37 | 113 | 176 | 10.9 | 230 | ND (2) | ND (2) | ND (0.02) | 1520 | 952 |

**Notes:**

MPN/100mL most probable number per 100 milliliters
mg/L milligrams per liter
µS/cm microsiemens per centimeter

**Sample Types:**

FD field duplicate, unless otherwise indicated all samples are primary samples

**Results Flags:**

--- Analyte not sampled
J concentration or reporting limit estimated by laboratory or data validation
ND not detected at shown reporting limit.

Table 4-2

Groundwater Analytical Results, Desert View Dairy

*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*
*Pacific Gas and Electric Company Hinkley Compressor Station, Hinkley, California*

| Location | Date | Sample Type | Potassium | Sodium | Chloride | Nitrate (as nitrogen) | Sulfate | Coliform, Fecal | Coliform, Total | Orthophosphate, dissolved | Specific conductance | Total dissolved solids |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | MPN/100mL | MPN/100mL | mg/L | µS/cm | mg/L |
| DW-01 | 05/05/11 | | --- | --- | 609 | 37.3 | 1120 | --- | --- | ND (0.02) | --- | 3220 |
| | 05/09/11 | | 4.76 | 278 | --- | --- | --- | ND (2) | ND (2) | --- | 4090 | --- |
| DW-02 | 05/05/11 | | --- | --- | 673 | 40.0J | 971 | --- | --- | ND (0.02) | --- | 3300 |
| | 05/09/11 | | 11.0 | 418 | --- | --- | --- | ND (2) | ND (2) | --- | 4330 | --- |
| DW-03 | 05/05/11 | | --- | --- | 1120 | 140 | 1510 | --- | --- | ND (0.02) | --- | 4880 |
| | 05/05/11 | FD | --- | --- | 990 | 142 | 1350 | --- | --- | ND (0.02) | --- | 4780 |
| | 05/09/11 | | 11.2 | 433 | --- | --- | --- | ND (2) | ND (2) | --- | 6010 | --- |
| MW-21A | 05/09/11 | | 7.75 | 584 | 735J | 53.7J | 1550J | ND (2) | ND (2) | ND (0.02) | 5280 | 4140 |
| | 05/09/11 | FD | 7.84 | 590 | 222J | 13.6J | 365J | ND (2) | ND (2) | ND (0.02) | 5290 | 4080 |
| MW-21B | 05/05/11 | | --- | --- | --- | 2.27 | --- | --- | --- | --- | --- | 664 |
| | 05/05/11 | FD | --- | --- | --- | 2.02 | --- | --- | --- | --- | --- | 606 |
| | 05/09/11 | | 5.77 | 135 | 86.3 | --- | 136 | ND (2) | ND (2) | 0.0395 | 974 | --- |
| MW-29 | 05/05/11 | | --- | --- | --- | 24.7 | --- | --- | --- | --- | --- | 4200 |
| | 05/09/11 | | 9.30 | 474 | 898 | --- | 1500 | ND (2) | ND (2) | 0.0212 | 5350 | --- |
| MW-30A | 05/09/11 | | 4.95 | 145 | 256 | 14.4 | 314 | ND (2) | ND (2) | ND (0.02) | 1890 | 1250 |
| MW-30B1 | 05/05/11 | | --- | --- | --- | 15.6 | --- | --- | --- | --- | --- | 1070 |
| | 05/09/11 | | 4.61 | 146 | 134 | --- | 229 | ND (2) | ND (2) | ND (0.02) | 1580 | --- |
| MW-30B2 | 05/05/11 | | --- | --- | --- | 12.3 | --- | --- | --- | --- | --- | 1070 |
| | 05/09/11 | | 4.62 | 158 | 137 | --- | 233 | ND (2) | ND (2) | ND (0.02) | 1610 | --- |
| MW-32B2 | 05/02/11 | | --- | --- | --- | ND (0.5) | --- | --- | --- | --- | --- | 377 |
| | 05/02/11 | FD | --- | --- | --- | ND (0.5) | --- | --- | --- | --- | --- | 420 |
| | 05/10/11 | | 3.08 | 79.3 | 43.8 | --- | 61.6 | ND (2) | ND (2) | ND (0.02) | 591 | --- |
| MW-32S | 05/10/11 | | 22.6 | 257 | 373 | 19.6 | 641 | 2.00 | 49.0 | 0.0482 | 2820 | 1910 |
| MW-55A | 05/05/11 | | --- | --- | --- | ND (0.5) | --- | --- | --- | --- | --- | 412 |
| | 05/10/11 | | 3.68 | 83.5 | 53.1 | --- | 145 | ND (2) | ND (2) | 0.0286 | 633 | --- |
| MW-55S | 05/10/11 | | 11.5 | 364 | 780 | 23.8 | 1020 | ND (2) | ND (2) | ND (0.02) | 4390 | 3310 |
| MW-56 | 05/10/11 | | 3.47 | 151 | 138 | 12.7 | 235 | 2.00 | 8.00 | ND (0.02) | 1600 | 958 |
| MW-62A | 05/05/11 | | --- | --- | --- | 19.2 | --- | --- | --- | --- | --- | 2850 |
| | 05/10/11 | | 8.99 | 301 | 686 | --- | 820 | ND (2) | 2.00 | ND (0.02) | 3870 | --- |
| | 05/10/11 | FD | 8.74 | 300 | 688 | --- | 821 | ND (2) | ND (2) | ND (0.02) | 3920 | --- |

Table 4-2

Groundwater Analytical Results, Desert View Dairy

*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*
*Pacific Gas and Electric Company Hinkley Compressor Station, Hinkley, California*

| Location | Date | Sample Type | Potassium | Sodium | Chloride | Nitrate (as nitrogen) | Sulfate | Coliform, Fecal | Coliform, Total | Orthophosphate, dissolved | Specific conductance | Total dissolved solids |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | MPN/100mL | MPN/100mL | mg/L | µS/cm | mg/L |
| MW-62B | 05/05/11 | | --- | --- | --- | ND (0.5) | --- | --- | --- | --- | --- | 630 |
| | 05/10/11 | | 5.44 | 110 | 190 | --- | 92.7 | ND (2) | 5.00 | 0.0463 | 1110 | --- |
| MW-63 | 05/05/11 | | --- | --- | --- | 84.6 | --- | --- | --- | --- | --- | 3870 |
| | 05/10/11 | | 9.19 | 374 | 814 | --- | 952 | ND (2) | ND (2) | ND (0.02) | 4970 | --- |
| MW-69D | 05/02/11 | | --- | --- | --- | 7.39 | --- | --- | --- | --- | --- | 2270 |
| | 05/10/11 | | 8.39 | 173 | 698 | --- | 584 | ND (2) | 2.00 | 0.0437 | 3290 | --- |
| MW-69S | 05/02/11 | | --- | --- | --- | 76.0 | --- | --- | --- | --- | --- | 4560 |
| | 05/10/11 | | 21.0 | 443 | 1160 | --- | 1260 | ND (2) | 2.00 | 0.0546 | 6070 | --- |
| MW-70D | 05/02/11 | | --- | --- | --- | 6.15 | --- | --- | --- | --- | --- | 1340 |
| | 05/10/11 | | 6.81 | 150 | 333 | --- | 317 | ND (2) | 2.00 | 0.0739 | 1990 | --- |
| MW-70S | 05/02/11 | | --- | --- | --- | 68.0 | --- | --- | --- | --- | --- | 4560 |
| | 05/02/11 | FD | --- | --- | --- | 70.8 | --- | --- | --- | --- | --- | 4060 |
| | 05/10/11 | | 9.67 | 384 | 1060 | --- | 1370 | 4.00 | 6.00 | 0.0549 | 5990 | --- |
| MW-71D | 04/27/11 | | --- | --- | --- | 1.32 | --- | --- | --- | --- | --- | 445 |
| | 05/10/11 | | 6.64 | 97.2 | 82.4 | --- | 92.7 | ND (2) | 2.00 | 0.0363 | 793 | --- |
| MW-71S | 04/27/11 | | --- | --- | --- | 18.0 | --- | --- | --- | --- | --- | 3320 |
| | 05/10/11 | | 12.8 | 345 | 974 | --- | 887 | ND (2) | ND (2) | 0.0861 | 4650 | --- |
| MW-83D | 05/04/11 | | --- | --- | --- | 43.5J | --- | --- | --- | --- | --- | 4360 |
| | 05/11/11 | | 12.0 | 516 | 1050 | --- | 1330 | ND (2) | ND (2) | ND (0.02) | 5800 | --- |
| | 06/02/11 | | --- | --- | --- | 45.2 | --- | --- | --- | --- | --- | --- |
| MW-83S | 05/04/11 | | --- | --- | --- | 38.3 | --- | --- | --- | --- | --- | 4210 |
| | 05/11/11 | | 26.4 | 553 | 962 | --- | 1220 | ND (2) | 5.00 | ND (0.02) | 5410 | --- |
| MW-84D | 05/11/11 | | 5.82 | 90.6 | 71.6 | ND (0.5) | 52.4 | ND (2) | ND (2) | 0.0302 | 526 | 324 |
| MW-84S | 05/11/11 | | 8.71 | 173 | 750 | 5.47 | 430 | ND (2) | ND (2) | 0.0273 | 3230 | 2170 |
| | 05/11/11 | FD | 7.17 | 172 | 730 | 5.48 | 428 | ND (2) | ND (2) | 0.0267 | 3240 | 2210 |
| MW-85D | 05/04/11 | | --- | --- | --- | ND (0.5) | --- | --- | --- | --- | --- | 344 |
| | 05/11/11 | | 4.67 | 67.2 | 57.2 | --- | 54.8 | ND (2) | ND (2) | 0.131 | 526 | --- |
| MW-85S | 05/04/11 | | --- | --- | --- | 5.74 | --- | --- | --- | --- | --- | 1880 |
| | 05/11/11 | | 7.11 | 162 | 585 | --- | 379 | ND (2) | ND (2) | ND (0.02) | 2710 | --- |
| MW-89D | 05/05/11 | | --- | --- | --- | 21.1 | --- | --- | --- | --- | --- | 2640 |
| | 05/10/11 | | 8.41 | 210 | 661 | --- | 637 | ND (2) | ND (2) | 0.0202 | 3350 | --- |

Table 4-2

Groundwater Analytical Results, Desert View Dairy

*Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel*
*Pacific Gas and Electric Company Hinkley Compressor Station, Hinkley, California*

| Location | Date | Sample Type | Potassium | Sodium | Chloride | Nitrate (as nitrogen) | Sulfate | Coliform, Fecal | Coliform, Total | Orthophosphate, dissolved | Specific conductance | Total dissolved solids |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | mg/L | mg/L | mg/L | mg/L | mg/L | MPN/100mL | MPN/100mL | mg/L | µS/cm | mg/L |
| MW-89S | 05/05/11 | | --- | --- | --- | 39.5 | --- | --- | --- | --- | --- | 3820 |
| | 05/10/11 | | 14.7 | 542 | 846 | --- | 1300 | ND (2) | ND (2) | 0.0215 | 5160 | --- |
| MW-94D | 05/11/11 | | 10.4 | 194 | 337 | 1.21 | 440 | ND (2) | ND (2) | 0.0392 | 2160 | 1420 |
| MW-94S | 05/11/11 | | 7.11 | 164 | 308 | 8.07 | 524 | ND (2) | ND (2) | 0.0315 | 2280 | 1570 |

**Notes:**

MPN/100mL most probable number per 100 milliliters
mg/L milligrams per liter
µS/cm microsiemens per centimeter

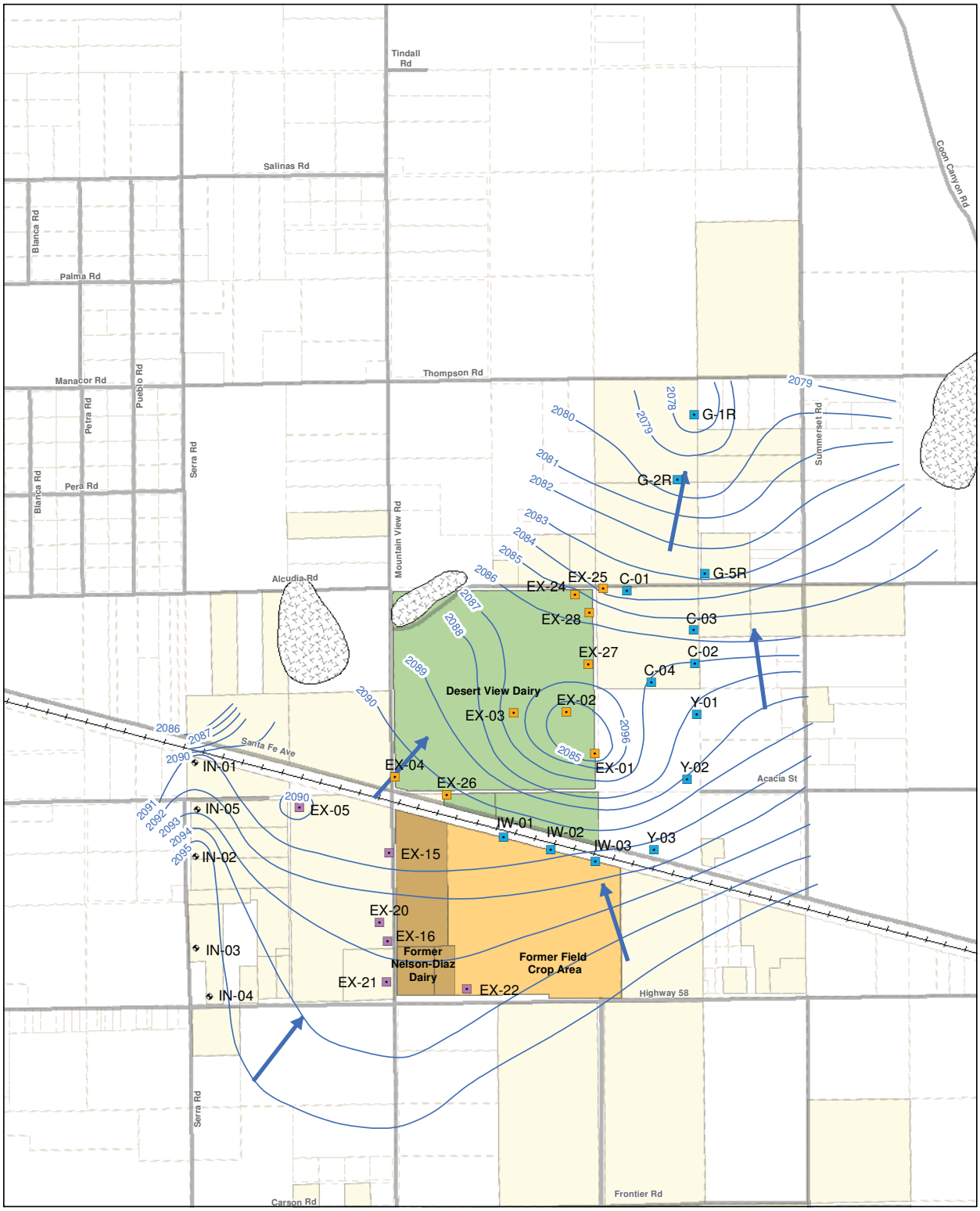
**Sample Types:**

FD field duplicate, unless otherwise indicated all samples are primary samples

**Results Flags:**

--- Analyte not sampled
ND not detected at shown reporting limit.

# Figures




LEGEND

- Desert View Dairy Extraction Wells
- Active and Planned Agricultural Unit Extraction Wells
- Northwest Area Injection Wells
- Northwest Area Extraction Wells
- Desert View Dairy (PG&E owned)
- Former Field Crop Area (PG&E owned)
- Former Nelson-Diaz Diary (PG&E owned)
- PG&E Owned Property
- Parcel Boundary
- April 2011 Groundwater Elevation Contours (feet above mean sea level)
- Inferred Direction of Groundwater Flow

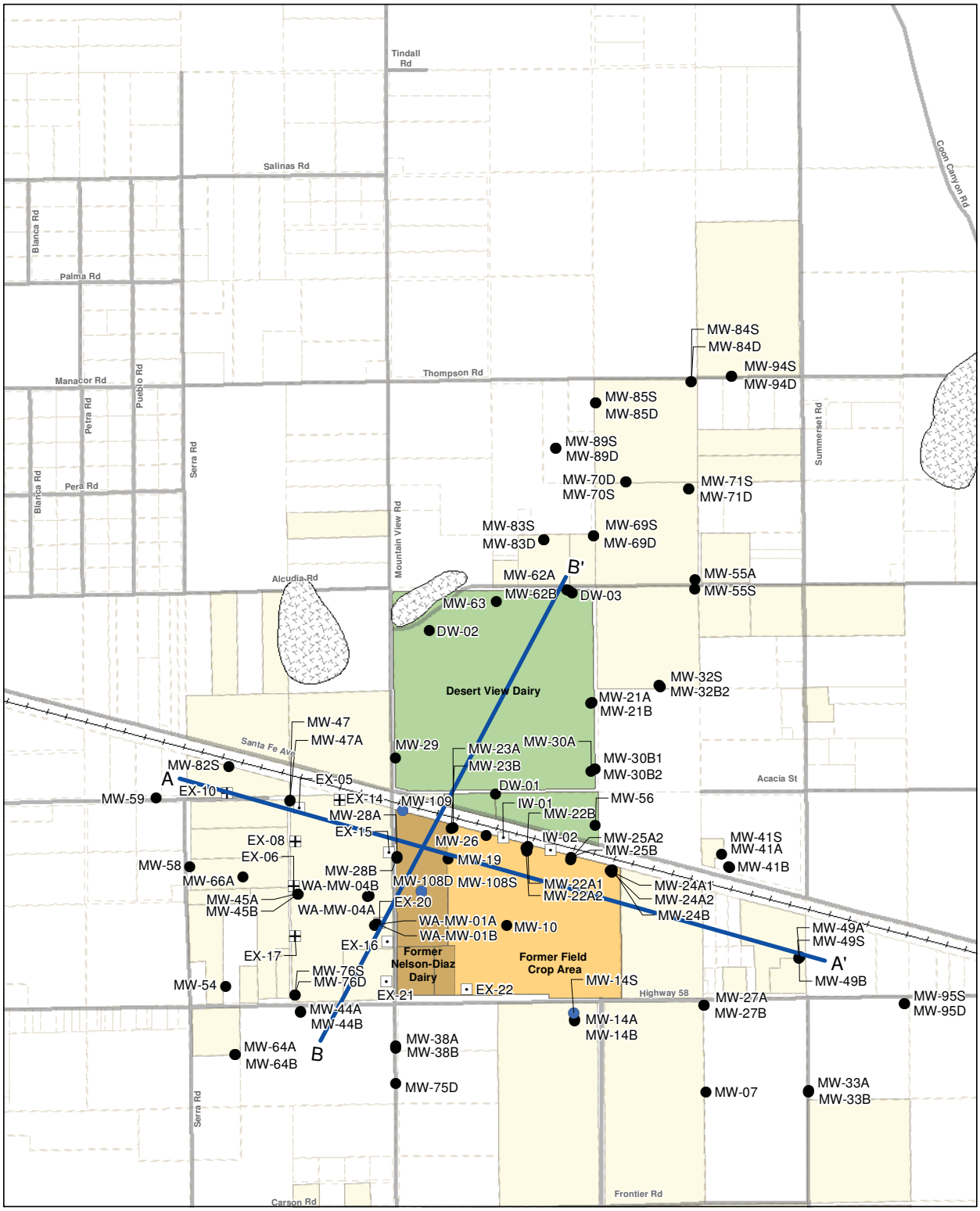
NOTE:
Groundwater elevation contours on this map are presented with groundwater elevation data in the Second Quarter 2011 Monitoring Report, Desert View Dairy Land Treatment Unit (In progress, CH2M HILL, 2011)

N

0 500 1,000 2,000 3,000
Feet

**FIGURE 1-1**
**SITE LOCATION MAP AND GROUNDWATER ELEVATIONS IN SHALLOW ZONE (A1) OF UPPER AQUIFER, APRIL 25, 2011**

GROUNDWATER INVESTIGATION AND CHARACTERIZATION REPORT
FOR FORMER NELSON-DIAZ DAIRY AND FIELD CROP PARCEL
PACIFIC GAS AND ELECTRIC COMPANY COMPRESSOR STATION
HINKLEY, CALIFORNIA



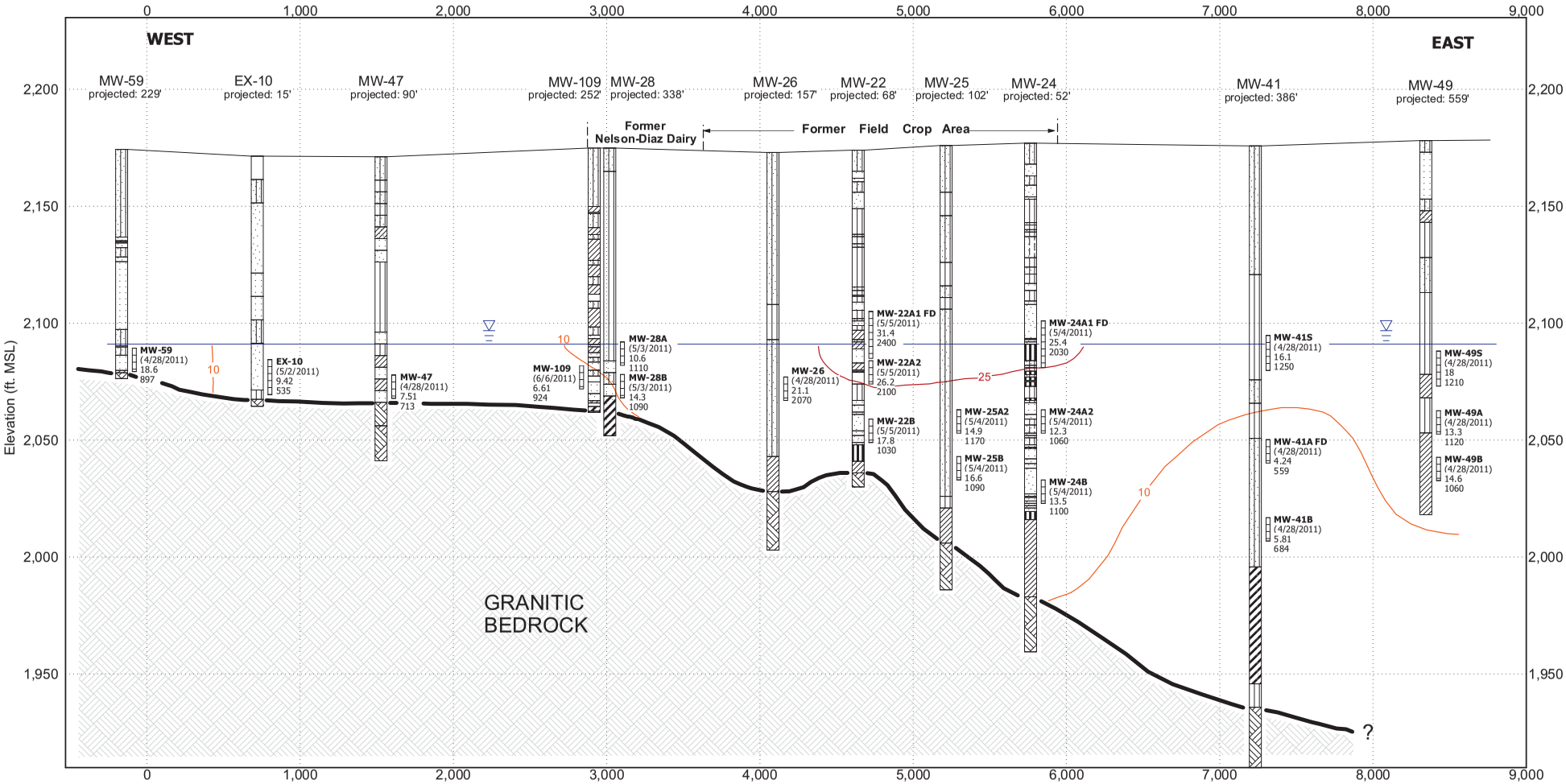

LEGEND

- New Monitoring Well
- Multi-use Test Well, or Inactive Extraction/Injection Well
- Monitoring Well
- Groundwater Extraction Well (active)
- Desert View Dairy (PG&E owned)
- Former Field Crop Area (PG&E owned)
- Former Nelson-Diaz Diary (PG&E owned)
- PG&E Owned Property
- Parcel Boundary
- Location of Cross-Section

N

0 500 1,000 2,000 3,000
Feet

**FIGURE 3-1**
**GROUNDWATER MONITORING WELL AND CROSS-SECTION LOCATIONS**
GROUNDWATER INVESTIGATION AND CHARACTERIZATION REPORT
FOR FORMER NELSON-DIAZ DAIRY AND FIELD CROP PARCEL
PACIFIC GAS AND ELECTRIC COMPANY COMPRESSOR STATION
HINKLEY, CALIFORNIA




Cross-section viewed to the NORTH
Vertical Exaggeration = 15.3X

VERTICAL SCALE: 1" = 42.8'
HORIZONTAL SCALE: 1" = 652.6'

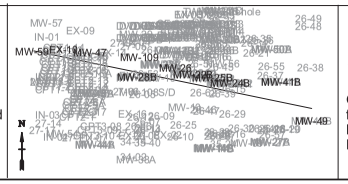
CH2MHILL

Note:
1) The actual subsurface conditions may differ from those interpreted on this cross section.
2) All sample results reported in milligrams per liter (mg/L).
3) For well locations where duplicate samples were collected, the maximum result between the normal sample and field duplicate (FD) is posted.

Top of Boring
Approximate Water Table Elevation (feet above mean sea level)
Well Screen
(Sample Date)
Nitrate as Nitrogen (mg/L)
Total Dissolved Solids (mg/L)
Bottom of Boring

## LITHOLOGY GRAPHICS

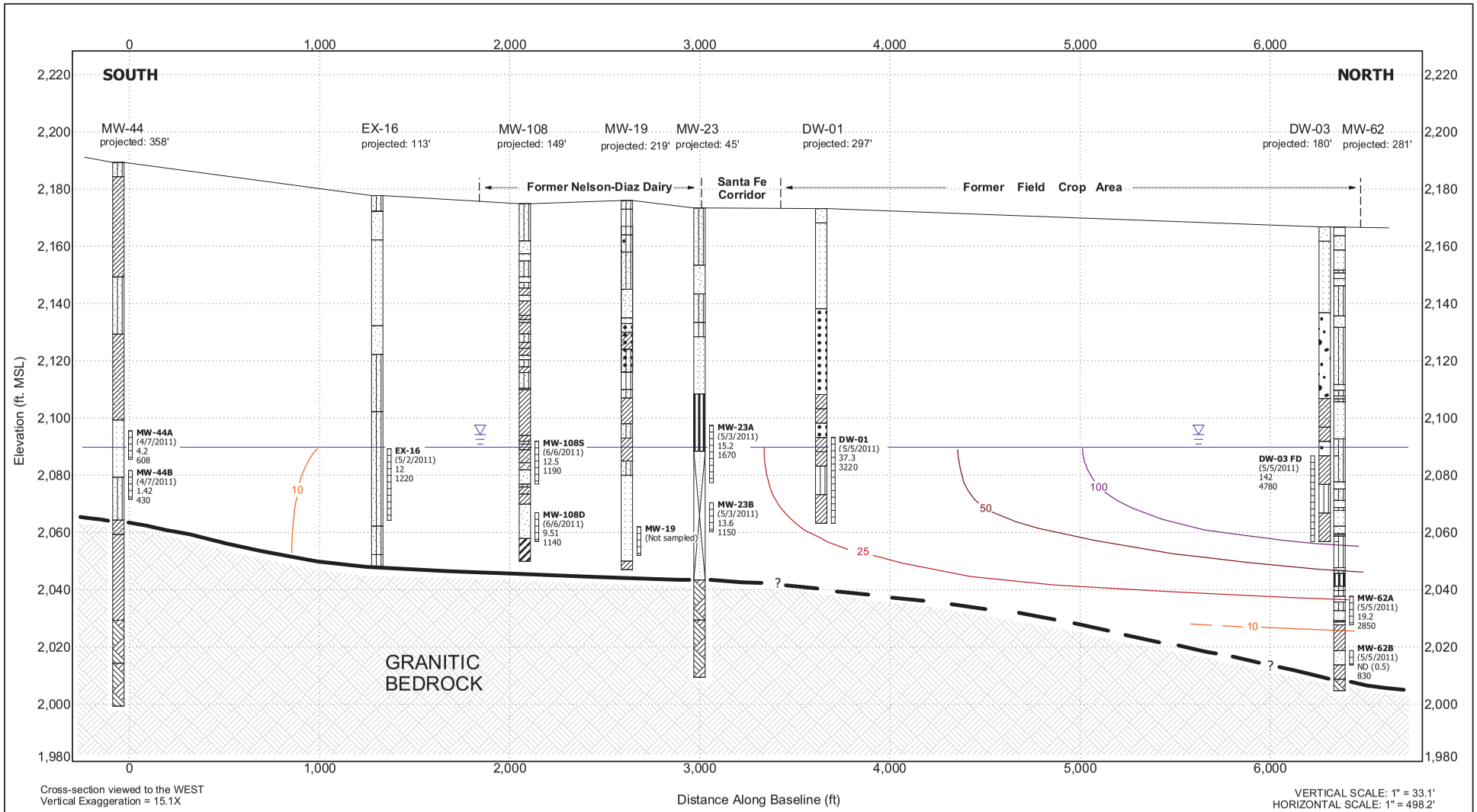
Silty Sand
Silt
Bedrock
Nitrate as N Isoconcentration contour (in mg/L)
Poorly-Graded Sand
Well Graded Sand
Elastic Silt
Lean Clay
Fat Clay
Silty Sand and Clayey Sand



# Figure 4-1 Nitrate-N and Total Dissolved Solids, Hydrogeologic Cross Section A-A'

Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel
Pacific Gas and Electric Company Compressor Station, Hinkley California

422396.FP.02.FW



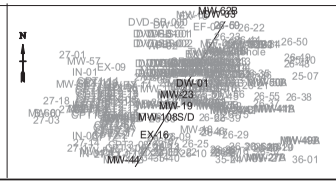

CH2MHILL

Note:
1) The actual subsurface conditions may differ from those interpreted on this cross section.
2) All sample results reported in milligrams per liter (mg/L)
3) For well locations where duplicate samples were collected, the maximum result between the normal sample and field duplicate (FD) is posted.

Top of Boring
Approximate Water Table Elevation (feet above mean sea level)
Well Screen
(Sample Date)
Nitrate as Nitrogen (mg/L)
Total Dissolved Solids (mg/L)
Bottom of Boring

## LITHOLOGY GRAPHICS

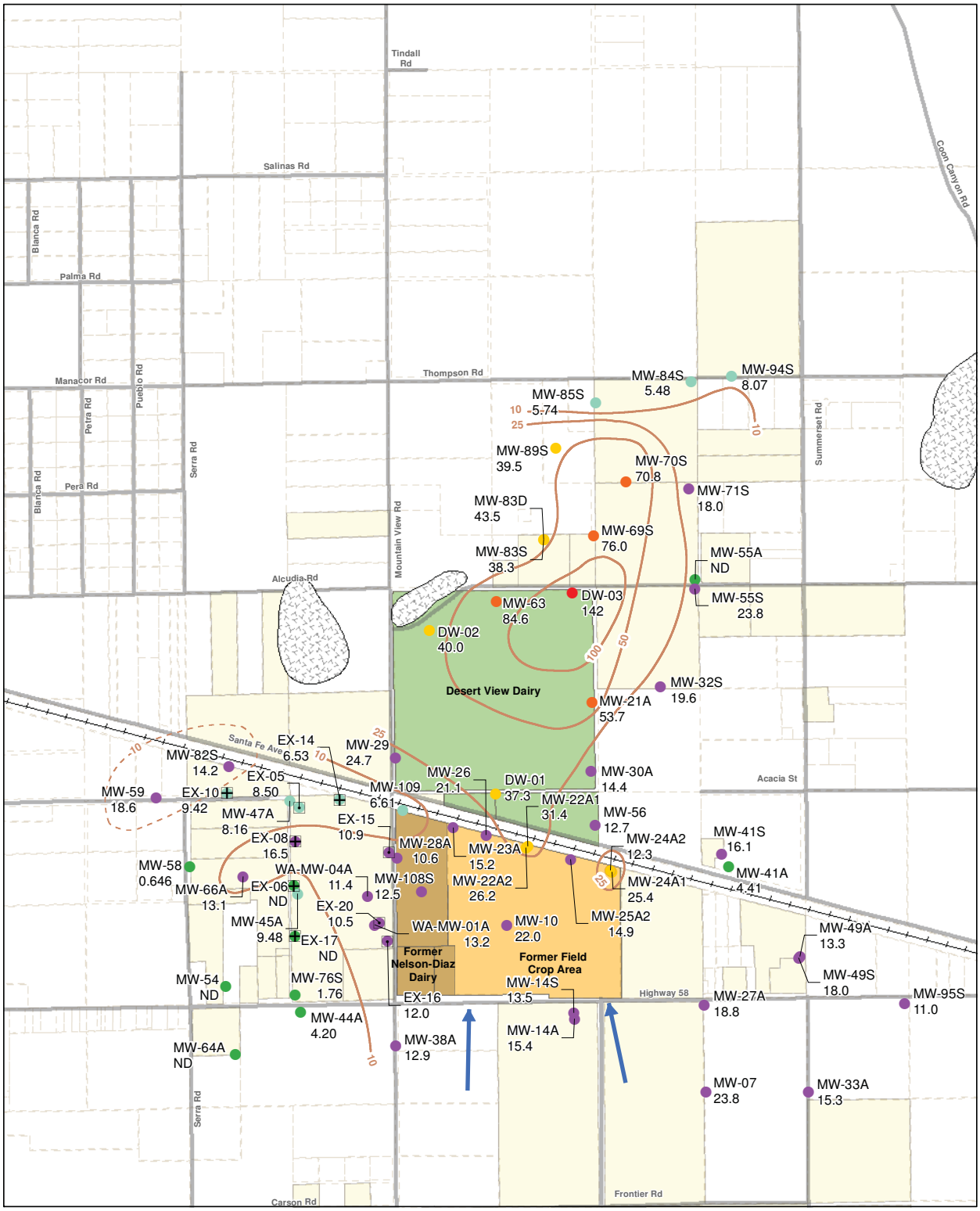
Well Graded Sand
Poorly-Graded Sand
Poorly-Graded Gravel
Poorly-Graded Sand with Clay
Lean Clay
Clayey Sand
Silty Sand
Silt
Bedrock
Nitrate as N Isoconcentration contour



# Figure 4-2 Nitrate-N and Total Dissolved Solids, Hydrogeologic Cross Section B-B'

Groundwater Investigation and Characterization Report for Former Nelson-Diaz Dairy and Field Crop Parcel
Pacific Gas and Electric Company Compressor Station, Hinkley California

422396.FP.02.FW




LEGEND

- Groundwater Extraction Well (active)
- Multi-use Test Well, or Inactive Extraction/Injection Well

Groundwater Nitrate (as nitrogen) Concentrations

- ND - 5 mg/L
- 5 - 10 mg/L
- 10 - 25 mg/L
- 25 - 50 mg/L
- 50 - 100 mg/L
- 100 - 150 mg/L
- Desert View Dairy (PG&E owned)
- Former Field Crop Area (PG&E owned)
- Former Nelson-Diaz Diary (PG&E owned)
- PG&E Owned Property
- Parcel Boundary
- Nitrate (as Nitrogen) Isoconcentration Contour. Dashed where inferred.
- Inferred Direction of Groundwater Flow

mg/L = milligrams per liter

MW-14A —— Well ID

18.9 —— concentration of nitrate (as Nitrogen) in mg/L

N

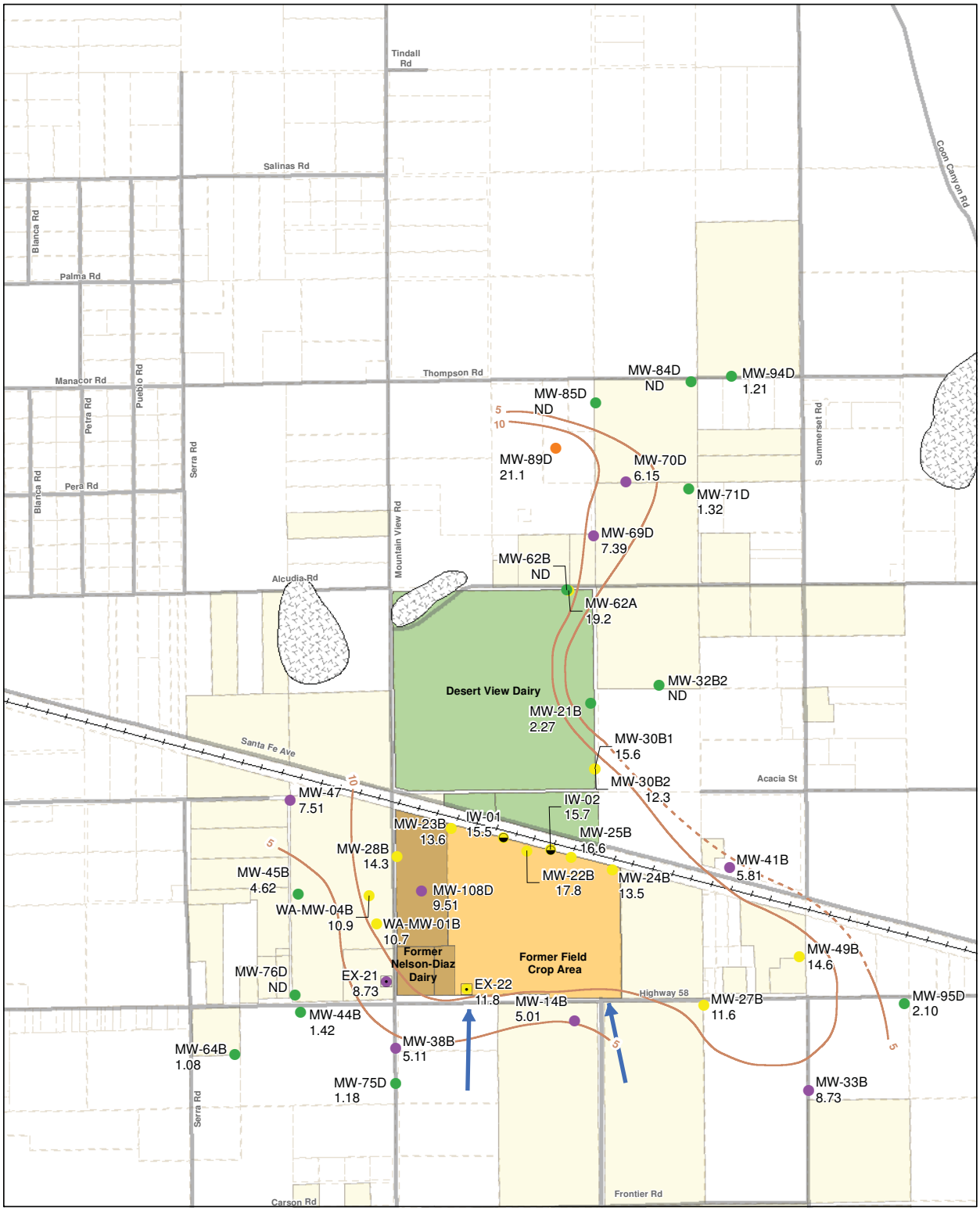
0 500 1,000 2,000 3,000
Feet

**FIGURE 4-3**
**NITRATE-N CONCENTRATIONS IN SHALLOW ZONE OF UPPER AQUIFER, FORMER NELSON DIAZ DAIRY, FIELD CROP PARCEL AND DESERT VIEW DAIRY**

GROUNDWATER INVESTIGATION AND CHARACTERIZATION REPORT
FOR FORMER NELSON-DIAZ DAIRY AND FIELD CROP PARCEL
PACIFIC GAS AND ELECTRIC COMPANY COMPRESSOR STATION
HINKLEY, CALIFORNIA

CH2MHILL

\\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\HINKLEYREMEDIATIONPROJECT\GIS\MXDS\2011\NITRATE INVESTIGATION\Q2\NITRATESAMPLING_NDD_NITRATE_S_WELLS_CONTOUR.MXD RRATHNAY 6/22/2011 10:12:24 AM




LEGEND

- Monitoring Well
- Argricultural Well
- Groundwater Extraction Well (active)

Groundwater Nitrate (as nitrogen) Concentrations

- ND – 5 mg/L
- 5 – 10 mg/L
- 10 – 20 mg/L
- 20 – 50 mg/L

- Desert View Dairy (PG&E owned)
- Former Field Crop Area (PG&E owned)
- Former Nelson-Diaz Diary (PG&E owned)
- PG&E Owned Property
- Parcel Boundary
- Nitrate (as Nitrogen) Isoconcentration Contour. Dashed where inferred.
- Inferred Direction of Groundwater Flow

mg/L = milligrams per liter

MW-14A —— Well ID

18.9 —— concentration of nitrate (as Nitrogen) in mg/L

N

0 500 1,000 2,000 3,000
Feet

**FIGURE 4-4**
**NITRATE-N CONCENTRATIONS IN DEEP ZONE OF UPPER AQUIFER, FORMER NELSON DIAZ DAIRY, FIELD CROP PARCEL AND DESERT VIEW DAIRY**

GROUNDWATER INVESTIGATION AND CHARACTERIZATION REPORT
FOR FORMER NELSON-DIAZ DAIRY AND FIELD CROP PARCEL
PACIFIC GAS AND ELECTRIC COMPANY COMPRESSOR STATION
HINKLEY, CALIFORNIA

CH2MHILL

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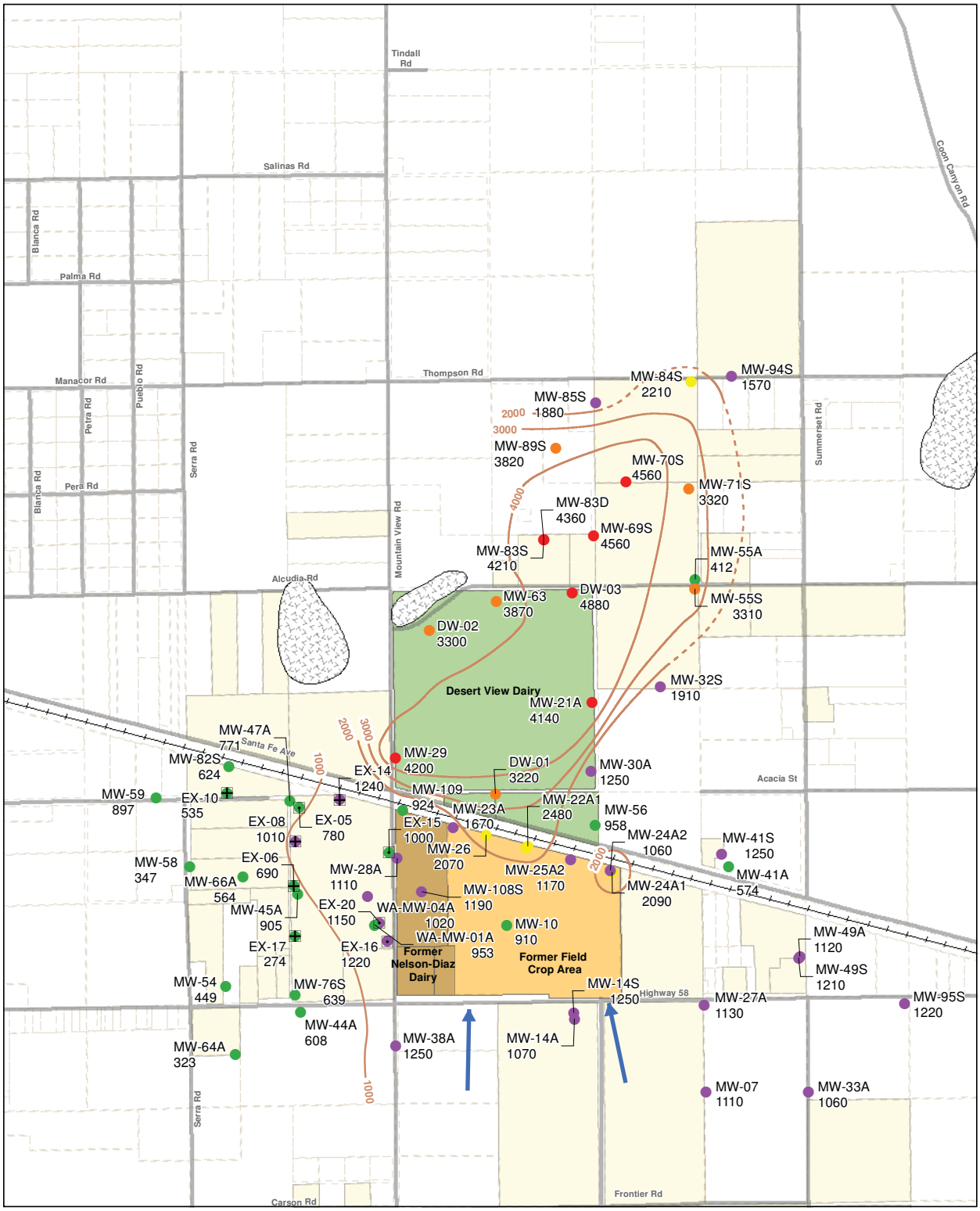



LEGEND

- Groundwater Extraction Well (active)
- Multi-use Test Well, or Inactive Extraction/Injection Well
- Monitoring Well

Total Dissolved Solids

- 0 – 1,000
- 1,000 – 2,000
- 2,000 – 3,000
- 3,000 – 4,000
- 4,000 – 5, 000

- Desert View Dairy (PG&E owned)
- Former Field Crop Area (PG&E owned)
- Former Nelson-Diaz Diary (PG&E owned)
- PG&E Owned Property
- Parcel Boundary
- Total Dissolved Solids (TDS) Isoconcentration Contour, 1,000 milligrams per liter. Dashed where inferred.
- Inferred Direction of Groundwater Flow

mg/L = milligrams per liter
MW-14A —— Well ID
18.9 —— concentration of TDS in mg/L

N

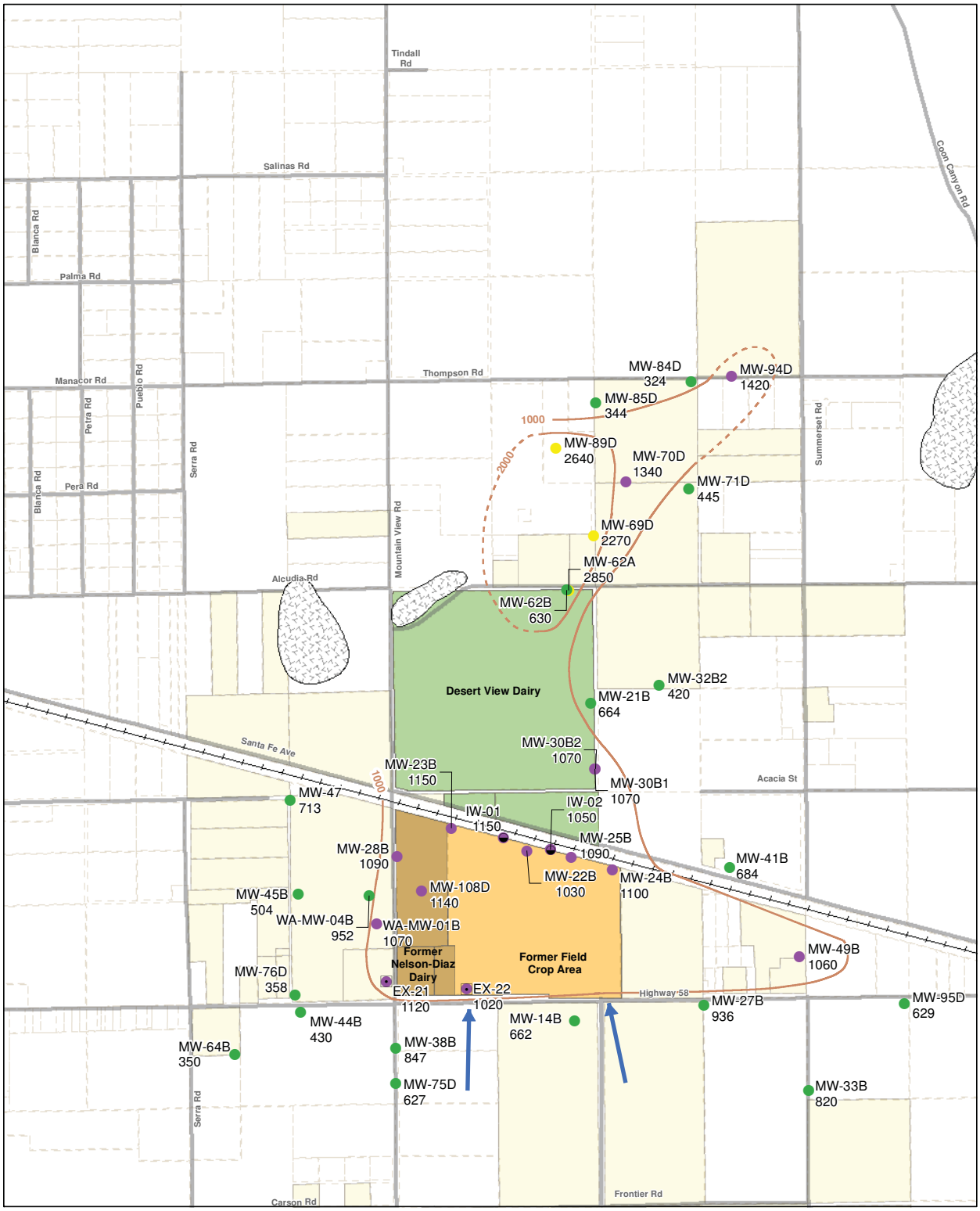
0 500 1,000 2,000 3,000
Feet

**FIGURE 4-5**
**TOTAL DISSOLVED SOLIDS CONCENTRATIONS IN SHALLOW ZONE OF UPPER AQUIFER, FORMER NELSON DIAZ DAIRY, FIELD CROP PARCEL AND DESERT VIEW DAIRY**

GROUNDWATER INVESTIGATION AND CHARACTERIZATION REPORT
FOR FORMER NELSON-DIAZ DAIRY AND FIELD CROP PARCEL
PACIFIC GAS AND ELECTRIC COMPANY COMPRESSOR STATION
HINKLEY, CALIFORNIA

CH2MHILL

\\ZINFANDEL\PROJ\PACIFICGASELECTRICCO\HINKLEYREMEDIATIONPROJECT\GIS\MXDS\2011\NITRATE INVESTIGATION\Q2\NITRATESAMPLING_NDD_TDS_S_WELLS_CONTOUR.MXD RRATHNAY 6/21/2011 5:16:19 PM




mg/L = milligrams per liter
MW-14A —— Well ID
18.9 —— concentration TDS in mg/L

LEGEND
- Monitoring Well
- Agricultural Well
- Groundwater Extraction Well (active)

Total Dissolved Solids
- 0 - 1000
- 1000 - 2000
- 2000 - 3000
- Desert View Dairy (PG&E owned)
- Former Field Crop Area (PG&E owned)
- Former Nelson-Diaz Diary (PG&E owned)
- PG&E Owned Property
- Parcel Boundary
- Total Dissolved Solids (TDS) Isoconcentration Contour, 1,000 milligrams per liter. Dashed where inferred.
- Inferred Direction of Groundwater Flow

N

0 500 1,000 2,000 3,000
Feet

**FIGURE 4-6**
**TOTAL DISSOLVED SOLIDS CONCENTRATIONS IN DEEP ZONE OF UPPER AQUIFER, FORMER NELSON DIAZ DAIRY, FIELD CROP PARCEL AND DESERT VIEW DAIRY**
GROUNDWATER INVESTIGATION AND CHARACTERIZATION REPORT
FOR FORMER NELSON-DIAZ DAIRY AND FIELD CROP PARCEL
PACIFIC GAS AND ELECTRIC COMPANY COMPRESSOR STATION
HINKLEY, CALIFORNIA

CH2MHILL

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# Appendix A
# Environmental Records Review – Nelson-Diaz Dairy and Adjacent Field Crop Parcel

APPENDIX A

# Environmental Records Review – Nelson-Diaz Dairy and Adjacent Field Crop Parcel

The Amended Cleanup and Abatement Order AR6V-2008-0034A3 (CAO) for investigation of nitrate in groundwater at the Nelson-Diaz Dairy and adjacent field crop parcel (NDD site) requires Pacific Gas and Electric Company (PG&E) to evaluate records of chemical use, storage, and disposal for purposes of documenting that all waste constituents of concern have been identified for the NDD site groundwater investigation. The CAO requires that results of the records evaluation be discussed in the Groundwater Investigation and Characterization Report. CH2M HILL, on behalf of PG&E, has reviewed environmental records, historic topographic maps, and aerial photographs to evaluate if the site has been used for any other purposes than for dairy operations and rural residency.

## A.1 Standard Environmental Record Sources

CH2M HILL acquired an electronic database report from Environmental Data Resources, Inc. (EDR) for purposes of evaluating whether any other constituents of concern besides chloride, nitrate as $NO_3$, total phosphorus, sodium, sulfate, total dissolved solids, and bacterial analyses (fecal coliform) could be identified and should be included as part of the NDD site groundwater investigation. EDR performed a records search of all reasonably ascertainable environmental databases, including the standard state and federal sources in accordance with ASTM Standard Practice E 1527-05 (ASTM, 2005).

The EDR report list of sites with environmental significance is discussed in the following sections. Review of the EDR maps, photographs, and reports indicate no significant concerns or impacts associated with the NDD site. The complete EDR report, including figures depicting the results of the database search, is included in Attachment A1. Table A-1 summarizes the environmental database search report results.

The EDR report also includes a category of "unmapped" sites. Unmapped sites are those that cannot be accurately mapped because of missing or incomplete address information. Unmapped sites are assumed to be more than 1 mile away from the NDD site and are not considered to have impacted the NDD site.

TABLE A-1
Environmental Database Search Results
*PG&E Nelson-Diaz Dairy and Adjacent Field Crop Parcel, Pacific Gas and Electric Company, Hinkley, California*

| Database | Search Radius (miles) | Number of Sites | Site Map ID and Site Name |
|---|---|---|---|
| ***Federal Databases*** | | | |
| No federal databases were identified | – | – | – |
| ***State and Tribal Databases*** | | | |
| SLIC – Spills, Leaks, Investigation & Cleanup | 0.429; 0.429 | 2 | B7 – Desert View Dairy; B8 – Private residence |
| UST – Registered Underground Storage Tank Sites | 0 | 1 | **A1 – AG-Mildred Nelson** |
| ***Local Lists of Registered Storage Tanks*** | | | |
| HIST UST – Historical UST Registered Database | 0; 0 | 2 | 3 – Flameling Dairy, Inc. (Currently Desert View Dairy); **A6 - Bill Nelson** |
| SWEEPS UST – Statewide Environmental Evaluation and Planning Database | 0 | 1 | 3 – Flameling Dairy, Inc. (Currently Desert View Dairy); |
| ***Other Ascertainable Records*** | | | |
| Permits San Bernardino: San Bernardino County Fire Department Hazardous Materials Division | 0; 0; 0.25 | 3 | **A2 – PG&E USTs**; **4 – PG&E Central IRZ**; 5 – James Blackwood |
| ***Unmapped Properties*** | | | |
| HIST CORTESE – Hazardous Waste and Substance Site | 4.27 | 1 | Whiting Brothers |
| LUST – leaking underground storage tank San Mateo | 4.27 | 1 | Whiting Brothers |
| LF – Landfill | 9.13 | 1 | Nursery Products Hawes Composting |
| AST – Above ground storage tank | 1.12 | 1 | SCE-Kramer Substation |
| Permits San Bernardino: San Bernardino County Fire Department Hazardous Materials Division | 1.12;1.88; 7.12; unknown | 4 | SCE-Kramer Substation; Central Metal, Inc.; Barstow Truck Parts; Verizon Wireless-Iron Mt. |
| WMUDS/SWAT - Waste Management Unit Database System | ~30 | 1 | Newberry-Class III Landfill |
| FINDS - Facility Index System/Facility Registry System | ~62 | 1 | Hinckley WTP – Treated (City of Redlands, CA) |

TABLE A-1
Environmental Database Search Results
*PG&E Nelson-Diaz Dairy and Adjacent Field Crop Parcel, Pacific Gas and Electric Company, Hinkley, California*

| Database | Search Radius (miles) | Number of Sites | Site Map ID and Site Name |
|---|---|---|---|
| MINES - Mines Master Index File | 85+; 108+ 61+; 104+; 29+; 35+; 63+; 62+; 90+ | 9 | Apache Canyon Mining Co; Viceroy Resources Corp; California Portland Cement Company; Fort Cady Mineral Co; Elementis Specialties Inc; Mitsubishi Cement Co; TXI Riverside Cement; IMC Global Inc; CEMEX USA |

Bolded text = listing on NDD site.

## A.2 EDR Listings near the Nelson-Diaz Dairy and Adjacent Field Crop Parcel

There are four EDR listings on the NDD site (listing is shown in bolded text) and three EDR listings within 0.5 mile from the NDD site, including:

### UST – Registered Underground Storage Tank Sites

- **A1 - AG, Mildred Nelson**, 36975 Mountain View Road, Hinkley, California (no details in EDR for listing)
- **A6 – Bill Nelson**, 36975 Mountain View Road, Hinkley, California (three USTs)

There are three USTs (a 500-gallon diesel tank, a 500-gallon regular gasoline tank, and a 2,000-gallon diesel tank) for the A6 – Bill Nelson listing. The USTs were installed between 1982 and 1983. No leaks from these USTs have been reported.

### HIST UST – Historical Underground Storage Tanks/SWEEPS UST – Statewide Environmental Evaluation and Planning Database

- 3 – Flameling Dairy, Inc. (currently Desert View Dairy), 22929 Santa Fe Ave, Hinkley, California (two USTs)

There are two USTs (a 550-gallon unleaded gasoline tank and a 1,000-gallon leaded gasoline tank) for this listing. The USTs were installed in 1988. No leaks from these USTs have been reported.

### San Bernardino County Permit – Various Permitted Sites

- **A2 - PG&E USTs**, 36975 Mountain View Road, Hinkley, California (four USTs listed as inactive. The UST capacities and historic contents are unknown.)
- **4 – PG&E Central IRZ**, 36703 Fairview Road, Hinkley, California
- 5 – James Blackwood, 23146 Highway 58, Hinkley, California (one UST listed as inactive)

Only one site EDR listing (4 – PG&E Central IRZ) is shown as having an active San Bernardino County permit for handling hazardous materials. This listing is part of a chromium groundwater remediation system. The other two sites (A2 – PG&E USTs and 5 – James Blackwood) show that USTs at these sites are inactive. No leaks from the USTs have been reported.

#### SLIC – Spills, Leaks, Investigation, and Cleanup

- B7 – Desert View Dairy, 37501 Mountain View Road, Hinkley, California
- B8 – Private Residence, 37501 Mountain View Road, Hinkley California

These two EDR listings (B7 – Desert View Dairy and B8 – private residence) are part of groundwater investigation for nitrate and chromium, respectfully.

## A.3 Historical Use Information on the Property

Historical use information for the NDD site was available from approximately 1934 to 2005. Historical documents reviewed include the following:

- Historical topographic maps
- Historical aerial photographs

All historical use sources show the site has been used consistently as a rural residence and for dairy operations.

### A.3.1 Historical Maps

A review of United States Geological Survey topographic maps of Barstow/Hinkley, California quadrangle for 1934, 1956, 1971, 1984, and 1993 was conducted for the NDD site and vicinity. The topographic maps are included in Attachment A-1 and exhibit the following:

- The topographic maps from 1934 and 1956 show the NDD site and adjacent area to be relatively flat, as indicated by the contour intervals. The maps also shows that:
  - The area is rural and sparsely populated.
  - Three buildings are present.
  - Three small water ponds are present along Highway 58 (1956 map).
- The topographic map from 1971 shows:
  - There are now six buildings present and two ponds.
  - There are two wells present on the east portion of the NDD site.
- The topographic map from 1984 shows:
  - There are now five buildings present.
  - This map does not show any ponds or wells.
- The topographic map from 1993 shows:
  - There are seven buildings present and one pond.

- There are two wells on the west side of the NDD site.
- There are two dairy waste ponds on the east side of the NDD site.

The features shown in the topographic maps are consistent with use of the NDD site for rural residency and dairy operations.

### A.3.2 Historical Aerial Photographs

A detailed study of aerial photographs was conducted by Meredith, Boli, and Associates (MBA) in December 1998 for the time period from 1941 through 1991. A summary of their observations shows the site has been consistently used for rural residency and dairy operations. Features identified by MBA, include livestock pens, ponds, residences, pools, structures, mobile trailers, corrals, and aboveground water tanks for irrigation. More detail is provided in Attachment B. CH2M HILL reviewed aerial photographs from 1953, 1964, 1973, 1989, 1994, 2002, and 2005 as part of the EDR aerial photograph decade package. These photographs are consistent with observations made by MBA and show similar features, including livestock pens, ponds, residences, structures, and manure pile, and show the NDD site has been consistently used for rural residency and dairy operations. Currently, the site is vacant land and there are no longer any structures, livestock pens, or ponds at the NDD site. There is a shallow imprint of the former dairy waste ponds, but they are no longer active.

## A.4 Summary of Environmental Records Review

CH2M HILL has reviewed EDR environmental database listings, historic topographic maps from 1934 through 1993, and historical photographs from 1953 through 2005. The results of this review show the NDD site has been consistently used for rural residency and dairy operations. Currently, the site is vacant land and there are no longer any structures, livestock pens, or ponds at the NDD site. There is a shallow imprint of the former dairy waste ponds but they are no longer active.

As part of the environmental records review, seven USTs were identified for the NDD site as follows:

- **A2 - PG&E USTs**, 36975 Mountain View Road, Hinkley, California. Four USTs listed as inactive; the UST capacities and historic contents are unknown. No leaks from these USTs have been reported.
- **A6 – Bill Nelson**, 36975 Mountain View Road, Hinkley, California. Three USTs (a 500-gallon diesel tank, a 500-gallon regular gasoline tank, and a 2,000-gallon diesel tank) were identified. No leaks from these USTs have been reported.

## A.5 References

American Society for Testing Materials (ASTM). 2005. Standard Practice E 1527-05. http://www.astm.org/Standards/E1527.htm.

**Nelson Diaz Dairy - Adjacent Field Crop Property**
Highway 58/Mountain View Road
Hinkley, CA 92347

Inquiry Number: 3062018.2s
May 06, 2011

# The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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***Thank you for your business.***
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with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

HIGHWAY 58/MOUNTAIN VIEW ROAD
HINKLEY, CA 92347

### COORDINATES

| | |
|---|---|
| Latitude (North): | 34.924900 - 34˚ 55' 29.6'' |
| Longitude (West): | 117.167300 - 117˚ 10' 2.3'' |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 484719.3 |
| UTM Y (Meters): | 3864530.2 |
| Elevation: | 2181 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 34117-H2 HINKLEY, CA |
| Most Recent Revision: | 1993 |

### AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Photo Year: | 2005 |
| Source: | USDA |

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

***Federal NPL site list***

NPL..... National Priority List

# EXECUTIVE SUMMARY

Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

***Federal Delisted NPL site list***

Delisted NPL ..... National Priority List Deletions

***Federal CERCLIS list***

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ..... Federal Facility Site Information listing

***Federal CERCLIS NFRAP site List***

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

***Federal RCRA CORRACTS facilities list***

CORRACTS ..... Corrective Action Report

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

***Federal RCRA generators list***

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

***Federal institutional controls / engineering controls registries***

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

***Federal ERNS list***

ERNS ..... Emergency Response Notification System

***State- and tribal - equivalent NPL***

RESPONSE ..... State Response Sites

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR ..... EnviroStor Database

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF ..... Solid Waste Information System

***State and tribal leaking storage tank lists***

LUST ..... Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

# EXECUTIVE SUMMARY

***State and tribal registered storage tank lists***

AST ..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

***State and tribal voluntary cleanup sites***

VCP ..... Voluntary Cleanup Program Properties
INDIAN VCP ..... Voluntary Cleanup Priority Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS ..... A Listing of Brownfields Sites

***Local Lists of Landfill / Solid Waste Disposal Sites***

DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

***Local Lists of Hazardous waste / Contaminated Sites***

US CDL ..... Clandestine Drug Labs
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
Toxic Pits ..... Toxic Pits Cleanup Act Sites
CDL ..... Clandestine Drug Labs
US HIST CDL ..... National Clandestine Laboratory Register

***Local Lists of Registered Storage Tanks***

CA FID UST ..... Facility Inventory Database

***Local Land Records***

LIENS 2 ..... CERCLA Lien Information
LUCIS ..... Land Use Control Information System
LIENS ..... Environmental Liens Listing
DEED ..... Deed Restriction Listing

***Records of Emergency Release Reports***

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing

***Other Ascertainable Records***

RCRA-NonGen ..... RCRA - Non Generators

# EXECUTIVE SUMMARY

| | |
|---|---|
| DOT OPS | Incident and Accident Data |
| DOD | Department of Defense Sites |
| FUDS | Formerly Used Defense Sites |
| CONSENT | Superfund (CERCLA) Consent Decrees |
| ROD | Records Of Decision |
| UMTRA | Uranium Mill Tailings Sites |
| MINES | Mines Master Index File |
| TRIS | Toxic Chemical Release Inventory System |
| TSCA | Toxic Substances Control Act |
| FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) |
| HIST FTTS | FIFRA/TSCA Tracking System Administrative Case Listing |
| SSTS | Section 7 Tracking Systems |
| ICIS | Integrated Compliance Information System |
| PADS | PCB Activity Database System |
| MLTS | Material Licensing Tracking System |
| RADINFO | Radiation Information Database |
| FINDS | Facility Index System/Facility Registry System |
| RAATS | RCRA Administrative Action Tracking System |
| CA BOND EXP. PLAN | Bond Expenditure Plan |
| WDS | Waste Discharge System |
| NPDES | NPDES Permits Listing |
| Cortese | "Cortese" Hazardous Waste & Substances Sites List |
| HIST CORTESE | Hazardous Waste & Substance Site List |
| Notify 65 | Proposition 65 Records |
| DRYCLEANERS | Cleaner Facilities |
| WIP | Well Investigation Program Case List |
| HAZNET | Facility and Manifest Data |
| EMI | Emissions Inventory Data |
| INDIAN RESERV | Indian Reservations |
| SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing |
| FINANCIAL ASSURANCE | Financial Assurance Information Listing |
| HWP | EnviroStor Permitted Facilities Listing |
| HWT | Registered Hazardous Waste Transporter Database |
| COAL ASH EPA | Coal Combustion Residues Surface Impoundments List |
| PCB TRANSFORMER | PCB Transformer Registration Database |
| PROC | Certified Processors Database |
| MWMP | Medical Waste Management Program Listing |
| COAL ASH DOE | Sleam-Electric Plan Operation Data |

**EDR PROPRIETARY RECORDS**

***EDR Proprietary Records***

| | |
|---|---|
| Manufactured Gas Plants | EDR Proprietary Manufactured Gas Plants |
| EDR Historical Auto Stations | EDR Proprietary Historic Gas Stations |
| EDR Historical Cleaners | EDR Proprietary Historic Dry Cleaners |

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

# EXECUTIVE SUMMARY

## STANDARD ENVIRONMENTAL RECORDS

### *State and tribal leaking storage tank lists*

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 03/22/2011 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| DESERT VIEW DAIRY | 37501 MOUNTAIN VIEW ROA | N 1/4 - 1/2 (0.429 mi.) | B7 | 11 |
| PRIVATE RESIDENCE | PRIVATE RESIDENCE | N 1/4 - 1/2 (0.429 mi.) | B8 | 12 |
| Facility Status: Open - Remediation | | | | |
| Facility Status: Open - Site Assessment | | | | |

### *State and tribal registered storage tank lists*

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 03/22/2011 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| AG-MILDRED NELSON | 36975 MOUNTAIN VIEW RD | 0 - 1/8 (0.000 mi.) | A1 | 8 |

## ADDITIONAL ENVIRONMENTAL RECORDS

### *Local Lists of Registered Storage Tanks*

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***FLAMELING DAIRY, INC.*** | ***22920 SANTA FE AVE*** | ***0 - 1/8 (0.000 mi.)*** | ***3*** | ***9*** |
| BILL NELSON | 36975 MOUNTAIN VIEW RD | 0 - 1/8 (0.000 mi.) | A6 | 10 |

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is

# EXECUTIVE SUMMARY

1 SWEEPS UST site within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***FLAMELING DAIRY, INC.*** | ***22920 SANTA FE AVE*** | ***0 - 1/8 (0.000 mi.)*** | ***3*** | ***9*** |

***Other Ascertainable Records***

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 03/10/2011 has revealed that there are 3 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| PG&E HINKLEY CENTRAL IRZ | 36703 FAIRVIEW RD | 0 - 1/8 (0.000 mi.) | 4 | 10 |
| JAMES BLACKWOOD | 23146 HWY 58 | 0 - 1/8 (0.000 mi.) | 5 | 10 |

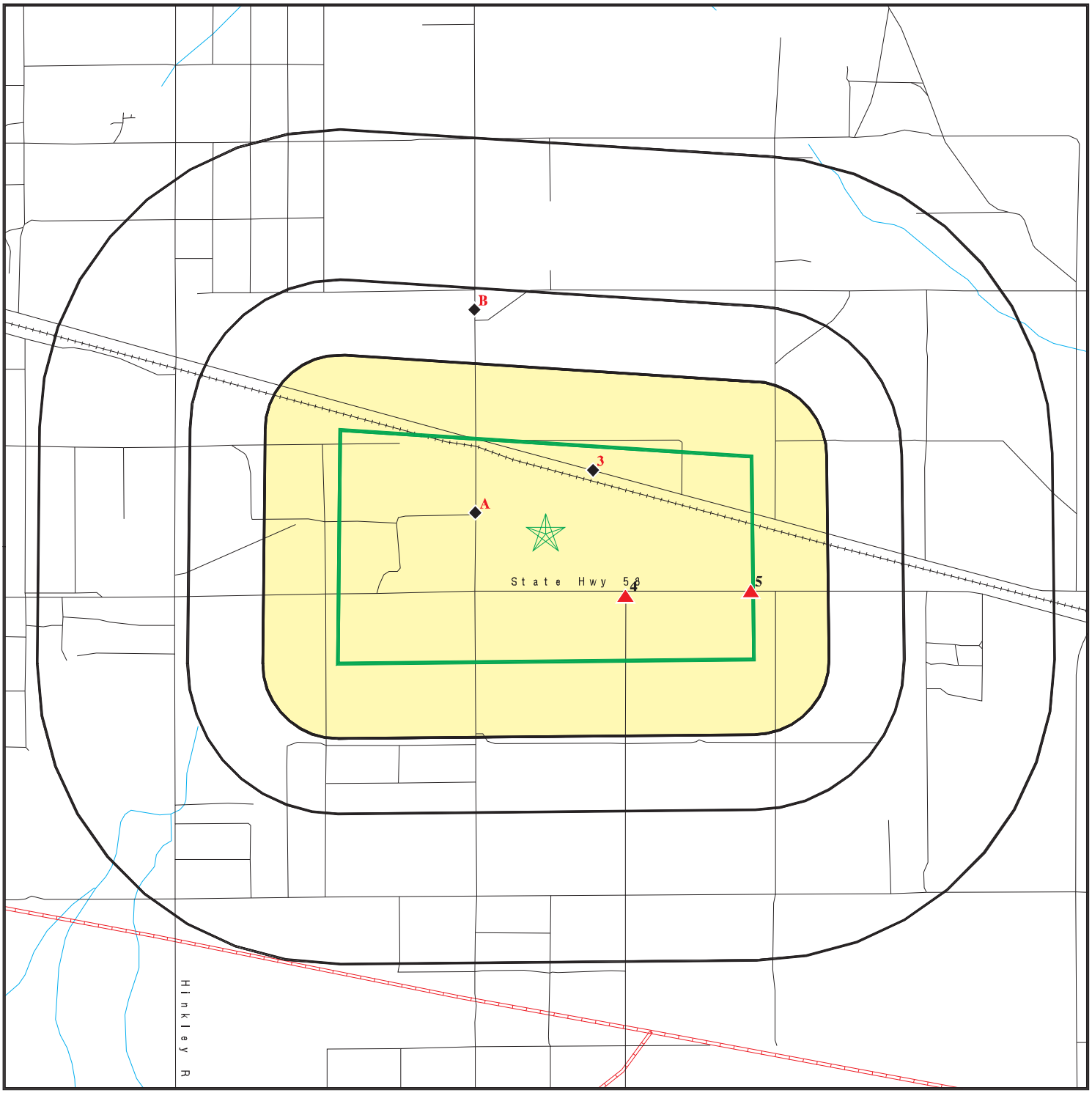
| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| PG&E UST'S | 36975 MOUNTAIN VW | 0 - 1/8 (0.000 mi.) | A2 | 8 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

| Site Name | Database(s) |
|---|---|
| WHITING BROTHERS | LUST SAN MATEO,HIST CORTESE |
| NURSERY PRODUCTS HAWES COMPOSTING | LF |
| SCE-KRAMER SUBSTATION | AST,PERMITS SAN BERNARDINO |
| NEWBERRY-CLASS III LANDFILL | WMUDS/SWAT |
| HINCKLEY WTP - TREATED | FINDS |
| CENTRAL METAL, INC. | PERMITS SAN BERNARDINO |
| BARSTOW TRUCK PARTS | PERMITS SAN BERNARDINO |
| VERIZON WIRELESS-IRON MT. | PERMITS SAN BERNARDINO |
| APACHE CANYON MINING CO | MINES |
| VICEROY RESOURCES CORP | MINES |
| VICEROY RESOURCES CORP | MINES |
| VICEROY RESOURCES CORP | MINES |
| CALIFORNIA PORTLAND CEMENT CO | MINES |
| FORT CADY MINERAL CO | MINES |
| ELEMENTIS SPECIALTIES INC | MINES |
| MITSUBISHI CEMENT CO | MINES |
| TXI RIVERSIDE CEMENT | MINES |
| IMC GLOBAL INC | MINES |
| CEMEX USA | MINES |
| IMC GLOBAL INC | MINES |

# OVERVIEW MAP - 3062018.2s




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property<br>ADDRESS: Highway 58/Mountain View Road<br>Hinkley CA 92347<br>LAT/LONG: 34.9249 / 117.1673 | CLIENT: CH2M Hill, Inc.<br>CONTACT: Juliana Harris<br>INQUIRY #: 3062018.2s<br>DATE: May 06, 2011 5:34 pm |

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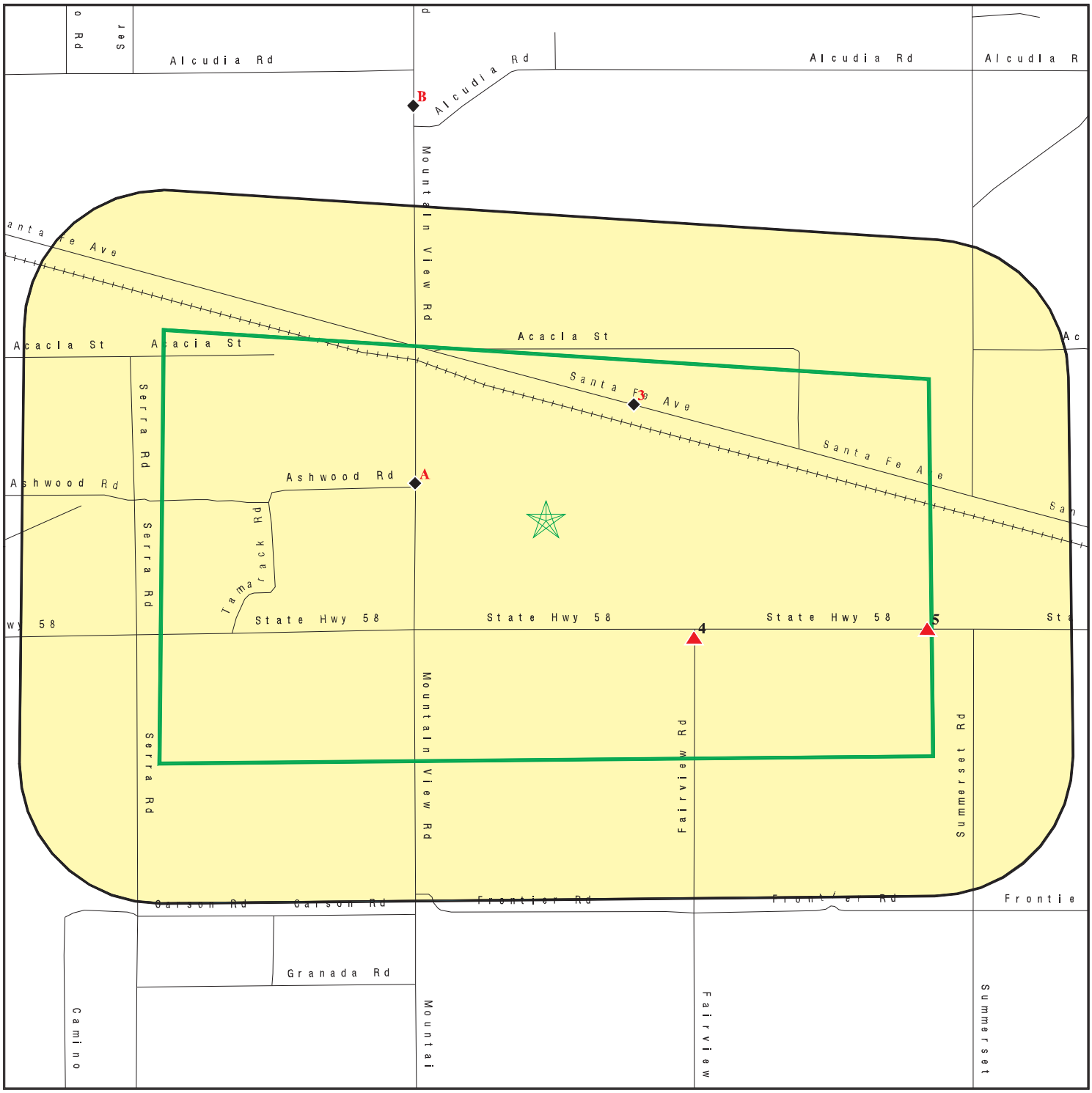
# DETAIL MAP - 3062018.2s




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property | CLIENT: CH2M Hill, Inc. |
| ADDRESS: Highway 58/Mountain View Road<br>Hinkley CA 92347 | CONTACT: Juliana Harris<br>INQUIRY #: 3062018.2s |
| LAT/LONG: 34.9249 / 117.1673 | DATE: May 06, 2011 5:35 pm |

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# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | | TP | NR | NR | NR | NR | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| CERCLIS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| FEDERAL FACILITY | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS NFRAP site List*** | | | | | | | | |
| CERC-NFRAP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| RCRA-CESQG | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| US ENG CONTROLS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | | TP | NR | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent NPL*** | | | | | | | | |
| RESPONSE | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ENVIROSTOR | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LUST | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| SLIC | | 0.500 | 0 | 0 | 2 | NR | NR | 2 |

# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| INDIAN LUST | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| UST | | 0.250 | 1 | 0 | NR | NR | NR | 1 |
| AST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| FEMA UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| VCP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN VCP | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| DEBRIS REGION 9 | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ODI | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| WMUDS/SWAT | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| HAULERS | | TP | NR | NR | NR | NR | NR | 0 |
| INDIAN ODI | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US CDL | | TP | NR | NR | NR | NR | NR | 0 |
| HIST Cal-Sites | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| SCH | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| Toxic Pits | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| CDL | | TP | NR | NR | NR | NR | NR | 0 |
| US HIST CDL | | TP | NR | NR | NR | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| CA FID UST | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| HIST UST | | 0.250 | 2 | 0 | NR | NR | NR | 2 |
| SWEEPS UST | | 0.250 | 1 | 0 | NR | NR | NR | 1 |
| ***Local Land Records*** | | | | | | | | |
| LIENS 2 | | TP | NR | NR | NR | NR | NR | 0 |
| LUCIS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| LIENS | | TP | NR | NR | NR | NR | NR | 0 |
| DEED | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | | TP | NR | NR | NR | NR | NR | 0 |
| CHMIRS | | TP | NR | NR | NR | NR | NR | 0 |
| LDS | | TP | NR | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| MCS | | TP | NR | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA-NonGen | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| DOT OPS | | TP | NR | NR | NR | NR | NR | 0 |
| DOD | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| FUDS | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| CONSENT | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| ROD | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| MINES | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| TRIS | | TP | NR | NR | NR | NR | NR | 0 |
| TSCA | | TP | NR | NR | NR | NR | NR | 0 |
| FTTS | | TP | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | | TP | NR | NR | NR | NR | NR | 0 |
| SSTS | | TP | NR | NR | NR | NR | NR | 0 |
| ICIS | | TP | NR | NR | NR | NR | NR | 0 |
| PADS | | TP | NR | NR | NR | NR | NR | 0 |
| MLTS | | TP | NR | NR | NR | NR | NR | 0 |
| RADINFO | | TP | NR | NR | NR | NR | NR | 0 |
| FINDS | | TP | NR | NR | NR | NR | NR | 0 |
| RAATS | | TP | NR | NR | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| WDS | | TP | NR | NR | NR | NR | NR | 0 |
| NPDES | | TP | NR | NR | NR | NR | NR | 0 |
| Cortese | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| HIST CORTESE | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| Notify 65 | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| DRYCLEANERS | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| WIP | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| San Bern. Co. Permit | | 0.250 | 3 | 0 | NR | NR | NR | 3 |
| HAZNET | | TP | NR | NR | NR | NR | NR | 0 |
| EMI | | TP | NR | NR | NR | NR | NR | 0 |
| INDIAN RESERV | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| FINANCIAL ASSURANCE | | TP | NR | NR | NR | NR | NR | 0 |
| HWP | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| HWT | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| COAL ASH EPA | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | | TP | NR | NR | NR | NR | NR | 0 |
| PROC | | 0.500 | 0 | 0 | 0 | NR | NR | 0 |
| MWMP | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| COAL ASH DOE | | TP | NR | NR | NR | NR | NR | 0 |
| **EDR PROPRIETARY RECORDS** | | | | | | | | |
| ***EDR Proprietary Records*** | | | | | | | | |
| Manufactured Gas Plants | | 1.000 | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Historical Auto Stations | | 0.250 | 0 | 0 | NR | NR | NR | 0 |
| EDR Historical Cleaners | | 0.250 | 0 | 0 | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1** **AG-MILDRED NELSON** **UST** **U004061610**
**36975 MOUNTAIN VIEW RD** **N/A**
**< 1/8** **HINKLEY, CA 92347**
**1 ft.**

**Site 1 of 3 in cluster A**

**Relative:**
**Lower**

**Actual:**
**2179 ft.**

UST:
Facility ID: 14900
Latitude: 34.92601
Longitude: -117.17143

---

**A2** **PG&E UST'S** **San Bern. Co. Permit** **S108536481**
**36975 MOUNTAIN VW** **N/A**
**< 1/8** **HINKLEY, CA 92347**
**1 ft.**

**Site 2 of 3 in cluster A**

**Relative:**
**Lower**

**Actual:**
**2179 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0000569
Owner: NELSON, MILDRED
Permit Number: PT0011364
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: INACTIVE
Expiration Date: 1990-02-28 00:00:00

Region: SAN BERNARDINO
Facility ID: FA0000569
Owner: NELSON, MILDRED
Permit Number: PT0011365
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: INACTIVE
Expiration Date: 1990-02-28 00:00:00

Region: SAN BERNARDINO
Facility ID: FA0000569
Owner: NELSON, MILDRED
Permit Number: PT0011366
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: INACTIVE
Expiration Date: 1990-02-28 00:00:00

Region: SAN BERNARDINO
Facility ID: FA0000569
Owner: NELSON, MILDRED
Permit Number: PT0003186
Permit Category: HAZMAT HANDLER - UST ONLY
Facility Status: INACTIVE
Expiration Date: 1990-02-28 00:00:00

**3** **FLAMELING DAIRY, INC.** **HIST UST** **U001575112**
**22920 SANTA FE AVE** **SWEEPS UST** **N/A**
**< 1/8** **HINKLEY, CA 92347**
**1 ft.**

**Relative:**
**Lower**

**Actual:**
**2176 ft.**

HIST UST:

| | |
|---|---|
| Region: | STATE |
| Facility ID: | 00000036575 |
| Facility Type: | Not reported |
| Other Type: | DAIRY FARM |
| Total Tanks: | 0002 |
| Contact Name: | FLAMELING BROS. |
| Telephone: | 6192533294 |
| Owner Name: | FLAMELING DAIRY, INC. |
| Owner Address: | 22920 SANTA FE AVE. |
| Owner City,St,Zip: | HINKLEY, CA 92347 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000550 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Tank Construction: | Not reported |
| Leak Detection: | None |
| | |
| Tank Num: | 002 |
| Container Num: | 2 |
| Year Installed: | Not reported |
| Tank Capacity: | 00001000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Tank Construction: | Not reported |
| Leak Detection: | None |

SWEEPS UST:

| | |
|---|---|
| Status: | A |
| Comp Number: | 36575 |
| Number: | 9 |
| Board Of Equalization: | Not reported |
| Ref Date: | 08-30-91 |
| Act Date: | 08-30-91 |
| Created Date: | 02-29-88 |
| Tank Status: | A |
| Owner Tank Id: | 1 |
| Swrcb Tank Id: | 36-000-036575-000001 |
| Actv Date: | 07-08-88 |
| Capacity: | 550 |
| Tank Use: | M.V. FUEL |
| Stg: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | 2 |
| | |
| Status: | A |
| Comp Number: | 36575 |
| Number: | 9 |
| Board Of Equalization: | Not reported |
| Ref Date: | 08-30-91 |
| Act Date: | 08-30-91 |

**FLAMELING DAIRY, INC. (Continued)** **U001575112**

Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 2
Swrcb Tank Id: 36-000-036575-000002
Actv Date: 07-08-88
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: LEADED
Number Of Tanks: Not reported

---

**4** **PG&E HINKLEY CENTRAL IRZ** **San Bern. Co. Permit** **S109117866**
**36703 FAIRVIEW RD** **N/A**
**< 1/8** **HINKLEY, CA 92347**
**1 ft.**

**Relative: Higher**
**Actual: 2186 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0011586
Owner: PACIFIC GAS & ELECTRIC CO
Permit Number: PT0020004
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: ACTIVE
Expiration Date: 2011-04-30 00:00:00

---

**5** **JAMES BLACKWOOD** **San Bern. Co. Permit** **S108240230**
**23146 HWY 58** **N/A**
**< 1/8** **HINKLEY, CA 92347**
**1 ft.**

**Relative: Higher**
**Actual: 2184 ft.**

San Bern. Co. Permit:
Region: SAN BERNARDINO
Facility ID: FA0010683
Owner: BLACKWOOD, JAMES
Permit Number: PT0018196
Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
Facility Status: INACTIVE
Expiration Date: 2006-11-30 00:00:00

---

**A6** **BILL NELSON** **HIST UST** **U001575111**
**36975 MOUNTAIN VIEW RD** **N/A**
**< 1/8** **HINKLEY, CA 92347**
**1 ft.**

**Site 3 of 3 in cluster A**

**Relative: Lower**
**Actual: 2179 ft.**

HIST UST:
Region: STATE
Facility ID: 00000033523
Facility Type: Not reported
Other Type: DAIRY
Total Tanks: 0003
Contact Name: Not reported
Telephone: 6192537260
Owner Name: BILL NELSON
Owner Address: 36975 MT. VIEW

**BILL NELSON (Continued)** **U001575111**

Owner City,St,Zip: HINKLEY, CA 92347

Tank Num: 001
Container Num: 2
Year Installed: 1982
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 1
Year Installed: 1982
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: 1983
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: None

---

**B7** **DESERT VIEW DAIRY** **SLIC** **S106487222**
**North** **37501 MOUNTAIN VIEW ROAD** **N/A**
**1/4-1/2** **HINKLEY, CA 92347**
**0.429 mi.**
**2265 ft.** **Site 1 of 2 in cluster B**

**Relative:**
**Lower**

**Actual:**
**2170 ft.**

SLIC:
Facility ID: SL0607171020
Region: 6V
Personal Charge Account: Not reported
Facility Addr2: Not reported
Case Number: SLT6V024
Initials: JJK
Enter Date: Not reported
Discovered By: Not reported
RP Name: LAHONTAN RWQCB (REGION 6V)
RP Contact Name: JJK
RP Address: 15428 CIVIC DRIVE STE 100
RP City,St,Zip: VICTORVILLE, CA 92392
RP Billing Addr: Not reported
RB Billing Addr2: Not reported
RP Billing Addr3: Not reported
RP Billing Addr4: Not reported
Comments: Not reported
Brownfield: Not reported
Report Date: Not reported
Lead Agency: R
Program Type: SLIC
Funding: RB

**DESERT VIEW DAIRY (Continued)** **S106487222**

| | |
|---|---|
| Abatement Method: | Not reported |
| Case Status: | 3A |
| Case Type: | A |
| Case Type Undetermined: | No |
| Case Type Soil Impacted: | No |
| Case Type Surface Water: | No |
| Case Type Drinkin Water Well: | No |
| Case Type Drinking Water Aqfr: | Yes |
| Case Type Other Grnd Wtr: | No |
| Beneficial Use: | Not reported |
| VOC: | No |
| SVO: | No |
| MET: | No |
| CR: | No |
| PET: | No |
| PCB: | No |
| ACD: | No |
| PER: | No |
| DIO: | No |
| PAH: | No |
| PHC: | No |
| FER: | No |
| Arsenic: | No |
| PCE: | No |
| TCE: | No |
| TDS: | No |
| Nitrates: | Yes |
| OCP: | No |
| Lat/Long: | 0 / 0 |

---

**B8** **PRIVATE RESIDENCE** **SLIC** **S106487216**
**North** **PRIVATE RESIDENCE** **N/A**
**1/4-1/2** **HINKLEY, CA 92347**
**0.429 mi.**
**2265 ft.** **Site 2 of 2 in cluster B**

**Relative:**
**Lower**

**Actual:**
**2170 ft.**

SLIC:

| | |
|---|---|
| Region: | STATE |
| **Facility Status:** | **Open - Remediation** |
| Status Date: | 2004-07-27 00:00:00 |
| Global Id: | SL0607132060 |
| Lead Agency: | LAHONTAN RWQCB (REGION 6T) |
| Lead Agency Case Number: | Not reported |
| Latitude: | 34.915642 |
| Longitude: | -117.171893 |
| Case Type: | Cleanup Program Site |
| Case Worker: | LSD |
| Local Agency: | Not reported |
| RB Case Number: | 6B360303001 |
| File Location: | Regional Board |
| Potential Media Affected: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Chromium |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

| | |
|---|---|
| Region: | STATE |
| **Facility Status:** | **Open - Site Assessment** |

**PRIVATE RESIDENCE (Continued)** **S106487216**

| | |
|---|---|
| Status Date: | 2002-06-03 00:00:00 |
| Global Id: | SL0607171020 |
| Lead Agency: | LAHONTAN RWQCB (REGION 6T) |
| Lead Agency Case Number: | Not reported |
| Latitude: | 34.923031 |
| Longitude: | -117.170489 |
| Case Type: | Cleanup Program Site |
| Case Worker: | LSD |
| Local Agency: | Not reported |
| RB Case Number: | SLT6V024 |
| File Location: | Not reported |
| Potential Media Affected: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Not reported |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

SLIC:

| | |
|---|---|
| Facility ID: | SL0607132060 |
| Region: | 6V |
| Personal Charge Account: | Not reported |
| Facility Addr2: | HWY 58 |
| Case Number: | 6B360303001 |
| Initials: | JJK |
| Enter Date: | Not reported |
| Discovered By: | Not reported |
| RP Name: | PACIFIC GAS AND ELECTRIC COMPANY |
| RP Contact Name: | LINDA GONSALVES |
| RP Address: | 375 N WIGET LANE, SUITE 200 |
| RP City,St,Zip: | WALNUT CREEK, CA 94598 |
| RP Billing Addr: | Not reported |
| RB Billing Addr2: | Not reported |
| RP Billing Addr3: | Not reported |
| RP Billing Addr4: | Not reported |
| Comments: | Not reported |
| Brownfield: | Not reported |
| Report Date: | 11/01/87 |
| Lead Agency: | R |
| Program Type: | SLIC |
| Funding: | COSTRE |
| Abatement Method: | Not reported |
| Case Status: | 5R |
| Case Type: | A |
| Case Type Undetermined: | No |
| Case Type Soil Impacted: | No |
| Case Type Surface Water: | No |
| Case Type Drinkin Water Well: | No |
| Case Type Drinking Water Aqfr: | Yes |
| Case Type Other Grnd Wtr: | No |
| Beneficial Use: | Not reported |
| VOC: | No |
| SVO: | No |
| MET: | No |
| CR: | Yes |
| PET: | No |
| PCB: | No |
| ACD: | No |

**PRIVATE RESIDENCE (Continued)** **S106487216**

| | |
|---|---|
| PER: | No |
| DIO: | No |
| PAH: | No |
| PHC: | No |
| FER: | No |
| Arsenic: | No |
| PCE: | No |
| TCE: | No |
| TDS: | No |
| Nitrates: | No |
| OCP: | No |
| Lat/Long: | 0 / 0 |

Count: 20 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| HINKLEY | 1008063796 | HINCKLEY WTP - TREATED | HINKLEY ROAD | 92347 | FINDS |
| | M200000047 | VICEROY RESOURCES CORP | CASTLE MOUNTAIN MINE | | MINES |
| | M200000117 | VICEROY RESOURCES CORP | CASTLE MOUNTAIN MINE | | MINES |
| | M300000110 | ELEMENTIS SPECIALTIES INC | HECTOR MINE | | MINES |
| | M300000679 | FORT CADY MINERAL CO | HECTOR | | MINES |
| | M300000690 | IMC GLOBAL INC | TRONA PLANT | | MINES |
| | M300000701 | IMC GLOBAL INC | WESTEND PLANT | | MINES |
| | M300000953 | CALIFORNIA PORTLAND CEMENT CO | COLTON PLANT | | MINES |
| | M300000964 | MITSUBISHI CEMENT CO | LUCERNE VALLEY (CUSHENBURY PLA | | MINES |
| | M300000975 | TXI RIVERSIDE CEMENT | ORO GRANDE PLANT | | MINES |
| | M300000988 | CEMEX USA | VICTORVILLE PLANT | | MINES |
| | M300002118 | APACHE CANYON MINING CO | APACHE CANYON AND NEW HIMALAYA | | MINES |
| | M300002206 | VICEROY RESOURCES CORP | CASTLE MOUNTAIN MINE | | MINES |
| NEWBERRY SPRINGS CA | S101310229 | NEWBERRY-CLASS III LANDFILL | HWY 40 | | WMUDS/SWAT |
| HINKLEY | S103066295 | WHITING BROTHERS | 26487 HWY 58 | 92347 | LUST SAN MATEO,HIST CORTESE |
| KRAMER JUNCTION | S105047479 | SCE-KRAMER SUBSTATION | HWY 395 S/O HWY 58 | 92347 | AST,PERMITS SAN BERNARDINO |
| IRON MOUNTAIN | S105482163 | VERIZON WIRELESS-IRON MT. | IRON MOUNTAIN/HWY 62 | 92347 | PERMITS SAN BERNARDINO |
| HINKLEY | S106446610 | CENTRAL METAL, INC. | 24399 OLD HWY 58 | 92347 | PERMITS SAN BERNARDINO |
| HINKLEY | S108239498 | NURSERY PRODUCTS HAWES COMPOSTING | W/SW HWY 58 HELENDALE RD. | | LF |
| HINKLEY | S109349288 | BARSTOW TRUCK PARTS | 24615 OLD HWY 58 | 92347 | PERMITS SAN BERNARDINO |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: No Update Planned

***Federal Delisted NPL site list***

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

| | |
|---|---|
| Date of Government Version: 12/31/2010 | Source: EPA |
| Date Data Arrived at EDR: 01/13/2011 | Telephone: N/A |
| Date Made Active in Reports: 01/28/2011 | Last EDR Contact: 04/13/2011 |
| Number of Days to Update: 15 | Next Scheduled EDR Contact: 07/25/2011 |
| | Data Release Frequency: Quarterly |

***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

| | |
|---|---|
| Date of Government Version: 02/25/2011 | Source: EPA |
| Date Data Arrived at EDR: 03/01/2011 | Telephone: 703-412-9810 |
| Date Made Active in Reports: 05/02/2011 | Last EDR Contact: 04/29/2011 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: 06/13/2011 |
| | Data Release Frequency: Quarterly |

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

| | |
|---|---|
| Date of Government Version: 12/10/2010 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 01/11/2011 | Telephone: 703-603-8704 |
| Date Made Active in Reports: 02/16/2011 | Last EDR Contact: 04/15/2011 |
| Number of Days to Update: 36 | Next Scheduled EDR Contact: 07/25/2011 |
| | Data Release Frequency: Varies |

***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

| | |
|---|---|
| Date of Government Version: 02/25/2011 | Source: EPA |
| Date Data Arrived at EDR: 03/01/2011 | Telephone: 703-412-9810 |
| Date Made Active in Reports: 05/02/2011 | Last EDR Contact: 04/29/2011 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: 06/13/2011 |
| | Data Release Frequency: Quarterly |

***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/25/2010
Date Data Arrived at EDR: 06/02/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 124

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

***Federal institutional controls / engineering controls registries***

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/05/2011
Date Data Arrived at EDR: 01/14/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/05/2011
Date Data Arrived at EDR: 01/14/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Annually

***State- and tribal - equivalent NPL***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 03/15/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 03/15/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF (SWIS): Solid Waste Information System
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 28

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 03/22/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 03/22/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 02/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 02/07/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/01/2010
Date Data Arrived at EDR: 11/05/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 84

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/03/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 02/04/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/03/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 45

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/04/2010
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

***State and tribal registered storage tank lists***

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/22/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/22/2011
Number of Days to Update: 30

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 02/04/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 12/02/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 57

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/01/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 68

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 03/03/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 45

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/01/2010
Date Data Arrived at EDR: 11/05/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 84

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/03/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

***State and tribal voluntary cleanup sites***

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 03/15/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/01/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 12/29/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 02/24/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 29

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 30

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/08/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

***Local Lists of Hazardous waste / Contaminated Sites***

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 46

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/08/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 03/15/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 03/04/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

***Local Lists of Registered Storage Tanks***

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Local Land Records***

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 47

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/18/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 33

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 51

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/21/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 30

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 03/22/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 28

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/22/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

***Other Ascertainable Records***

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2011
Date Data Arrived at EDR: 02/11/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/11/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/15/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 10/01/2010
Date Data Arrived at EDR: 10/29/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 91

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/25/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 5

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/16/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/04/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/09/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/22/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/04/2011
Number of Days to Update: 29

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES].

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/15/2010
Date Data Arrived at EDR: 09/16/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 13

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/07/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 36

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 19

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 04/01/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 02/28/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 29

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 03/04/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 34

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/17/2011
Date Data Arrived at EDR: 01/18/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 10

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/09/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/04/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/15/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 04/26/2011
Number of Days to Update: 41

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 06/01/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 05/05/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/05/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

**EDR PROPRIETARY RECORDS**

***EDR Proprietary Records***

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**COUNTY RECORDS**

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/06/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 18

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/06/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 13

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 03/10/2011
Date Data Arrived at EDR: 03/11/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 13

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2011
Date Data Arrived at EDR: 01/18/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 10

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/06/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/31/2011
Number of Days to Update: 28

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/30/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/24/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 02/18/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/09/2011
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 23

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/18/2011
Date Data Arrived at EDR: 01/25/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 37

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 01/14/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/20/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 22

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: No Update Planned

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/15/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 16

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/15/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 50

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 42

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/03/2010
Date Data Arrived at EDR: 01/20/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 8

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/03/2010
Date Data Arrived at EDR: 01/20/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 8

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/10/2011
Date Data Arrived at EDR: 03/11/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 13

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/09/2010
Date Data Arrived at EDR: 09/15/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 14

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 70

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/21/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/30/2011
Date Data Arrived at EDR: 03/31/2011
Date Made Active in Reports: 04/22/2011
Number of Days to Update: 22

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/17/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/14/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 04/01/2011
Number of Days to Update: 43

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/21/2011
Date Data Arrived at EDR: 03/22/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 29

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 05/29/2009
Date Data Arrived at EDR: 06/01/2009
Date Made Active in Reports: 06/15/2009
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/31/2009
Date Data Arrived at EDR: 08/31/2009
Date Made Active in Reports: 09/18/2009
Number of Days to Update: 18

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 03/15/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/30/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/21/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 27

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/21/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 04/22/2011
Number of Days to Update: 28

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/14/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 9

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 01/26/2011
Date Data Arrived at EDR: 02/25/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 25

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 10/05/2009
Date Made Active in Reports: 10/13/2009
Number of Days to Update: 8

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/07/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/01/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/22/2011
Number of Days to Update: 30

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 01/25/2011
Date Data Arrived at EDR: 02/03/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 29

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Annually

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/25/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/09/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/06/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

NELSON DIAZ DAIRY - ADJACENT FIELD CROP PROPERTY
HIGHWAY 58/MOUNTAIN VIEW ROAD
HINKLEY, CA 92347

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 34.92490 - 34˚ 55’ 29.6’’ |
| Longitude (West): | 117.1673 - 117˚ 10’ 2.3’’ |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 484719.3 |
| UTM Y (Meters): | 3864530.2 |
| Elevation: | 2181 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 34117-H2 HINKLEY, CA |
| Most Recent Revision: | 1993 |

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

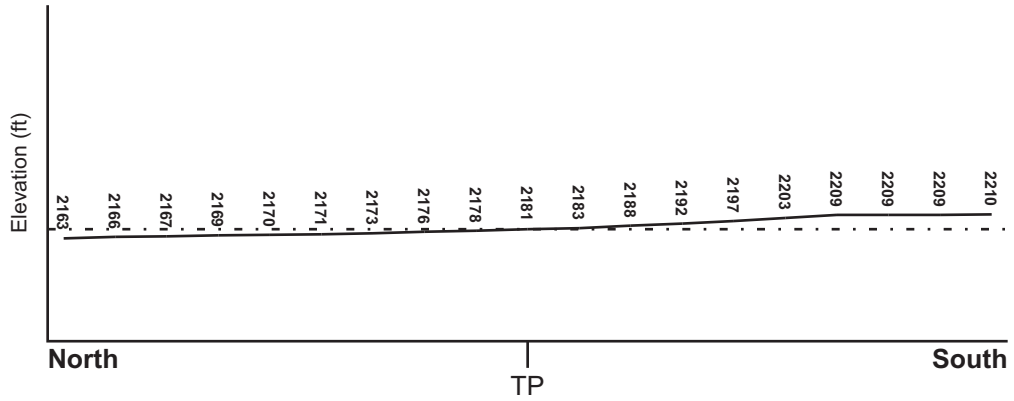
**TOPOGRAPHIC INFORMATION**

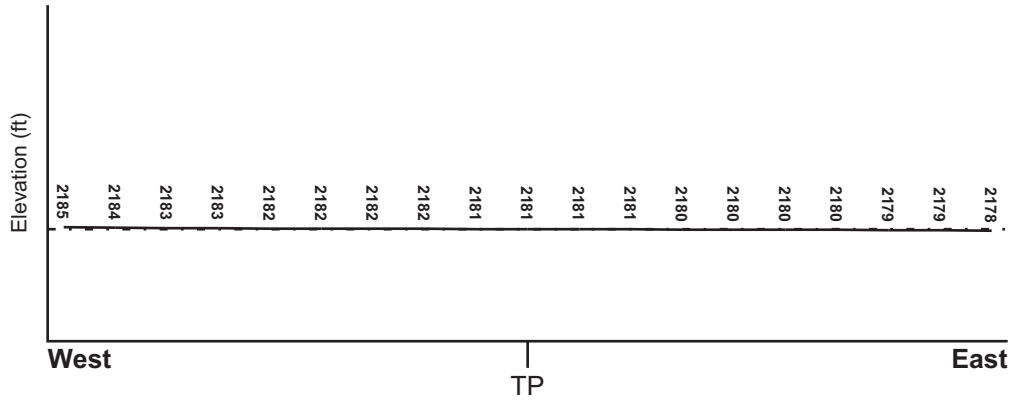
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General North

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




**Target Property Elevation: 2181 ft.**

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

| Target Property County | FEMA Flood Electronic Data |
|---|---|
| SAN BERNARDINO, CA | YES - refer to the Overview Map and Detail Map |

Flood Plain Panel at Target Property: 06071C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

### NATIONAL WETLAND INVENTORY

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| NOT AVAILABLE | YES - refer to the Overview Map and Detail Map |

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

***Site-Specific Hydrogeological Data*:***

Search Radius: 1.25 miles
Status: Not found

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| Not Reported | | |

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

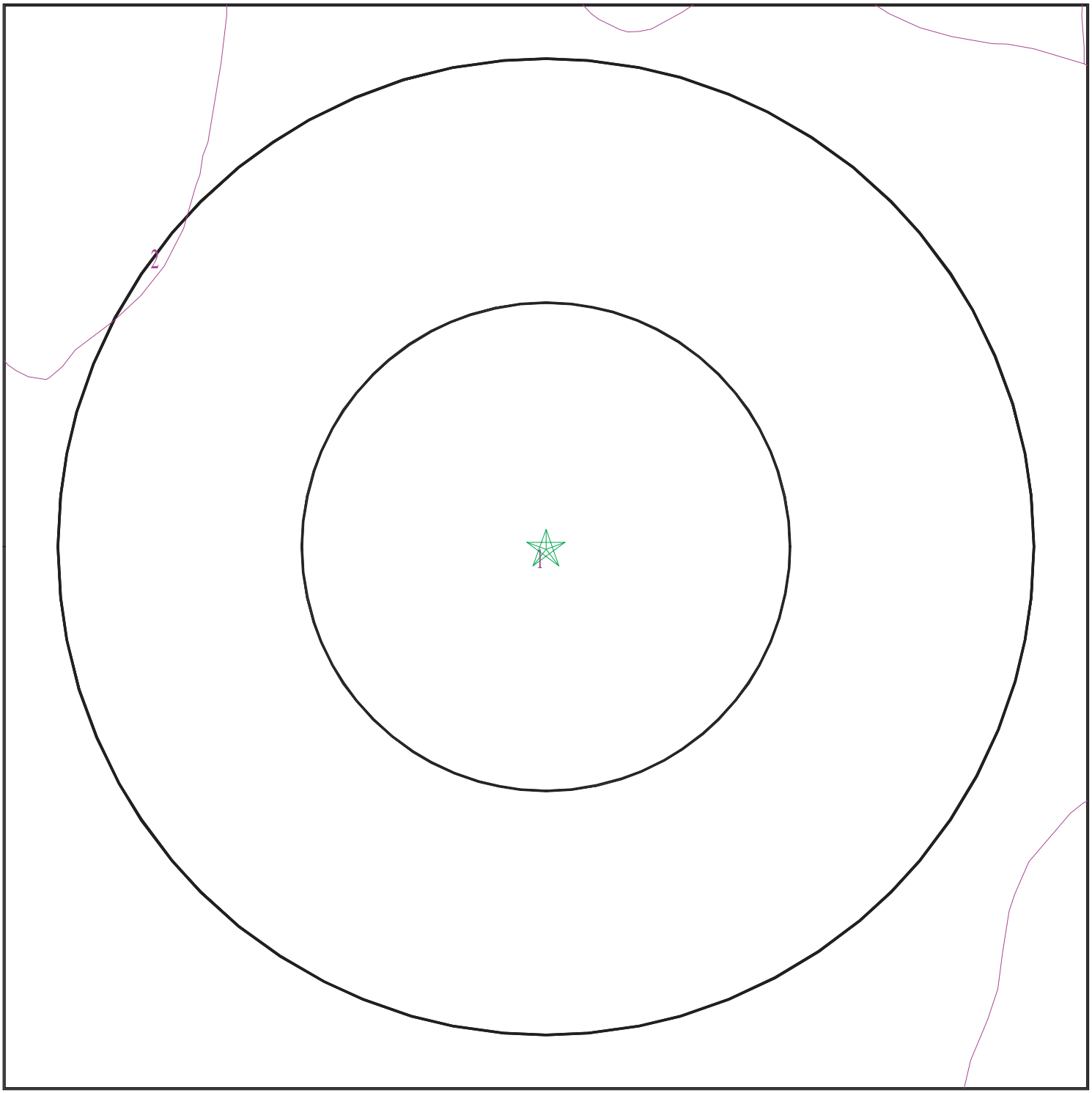
| | |
|---|---|
| Era: | Cenozoic |
| System: | Quaternary |
| Series: | Quaternary |
| Code: | Q *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 3062018.2s




Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

| | |
|---|---|
| SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property<br>ADDRESS: Highway 58/Mountain View Road<br>Hinkley CA 92347<br>LAT/LONG: 34.9249 / 117.1673 | CLIENT: CH2M Hill, Inc.<br>CONTACT: Juliana Harris<br>INQUIRY #: 3062018.2s<br>DATE: May 06, 2011 5:35 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

Soil Component Name: CAJON

Soil Surface Texture:
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 7 inches | | Not reported | Not reported | Max: 14<br>Min: 4 | Max: 8.4<br>Min: 7.4 |
| 2 | 7 inches | 20 inches | | Not reported | Not reported | Max: 14<br>Min: 4 | Max: 8.4<br>Min: 7.4 |
| 3 | 20 inches | 42 inches | | Not reported | Not reported | Max: 14<br>Min: 4 | Max: 8.4<br>Min: 7.4 |
| 4 | 42 inches | 59 inches | | Not reported | Not reported | Max: 14<br>Min: 4 | Max: 8.4<br>Min: 7.4 |

---

**Soil Map ID: 2**

Soil Component Name: CAJON

Soil Surface Texture:
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 7 inches | | Not reported | Not reported | Max: 141<br>Min: 42 | Max: 8.4<br>Min: 7.4 |
| 2 | 7 inches | 25 inches | | Not reported | Not reported | Max: 141<br>Min: 42 | Max: 8.4<br>Min: 7.4 |
| 3 | 25 inches | 44 inches | | Not reported | Not reported | Max: 141<br>Min: 42 | Max: 8.4<br>Min: 7.4 |
| 4 | 44 inches | 59 inches | | Not reported | Not reported | Max: 141<br>Min: 42 | Max: 8.4<br>Min: 7.4 |

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

## FEDERAL USGS WELL INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| B4 | USGS3221544 | 0 - 1/8 Mile WSW |
| B5 | USGS3129305 | 1/8 - 1/4 Mile WSW |
| A6 | USGS3129334 | 1/8 - 1/4 Mile East |
| A7 | USGS3129331 | 1/8 - 1/4 Mile East |
| A8 | USGS3129337 | 1/8 - 1/4 Mile East |
| A9 | USGS3129325 | 1/8 - 1/4 Mile ESE |
| A10 | USGS3131586 | 1/8 - 1/4 Mile ESE |
| A11 | USGS3129304 | 1/8 - 1/4 Mile ESE |

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| D14 | USGS3129355 | 1/8 - 1/4 Mile NNW |
| C15 | USGS3129354 | 1/8 - 1/4 Mile NE |
| E19 | USGS3129491 | 1/4 - 1/2 Mile SE |
| F20 | USGS3129353 | 1/4 - 1/2 Mile NE |
| E21 | USGS3129473 | 1/4 - 1/2 Mile SE |
| G22 | USGS3129472 | 1/4 - 1/2 Mile SE |
| G23 | USGS3129471 | 1/4 - 1/2 Mile SE |
| I25 | USGS3129306 | 1/4 - 1/2 Mile West |
| I26 | USGS3129494 | 1/4 - 1/2 Mile WSW |
| J27 | USGS3129341 | 1/4 - 1/2 Mile WNW |
| H28 | USGS3129324 | 1/4 - 1/2 Mile East |
| H29 | USGS3129315 | 1/4 - 1/2 Mile East |
| H30 | USGS3129303 | 1/4 - 1/2 Mile East |
| K34 | USGS3129383 | 1/4 - 1/2 Mile NNE |
| K35 | USGS3129389 | 1/4 - 1/2 Mile NNE |
| K37 | USGS3129180 | 1/4 - 1/2 Mile NNE |
| M38 | USGS3129415 | 1/4 - 1/2 Mile SW |
| N39 | USGS3129183 | 1/2 - 1 Mile NNE |
| L41 | USGS3129414 | 1/2 - 1 Mile SE |
| 42 | USGS3129179 | 1/2 - 1 Mile NNE |
| O44 | USGS3129374 | 1/2 - 1 Mile NW |
| O46 | USGS3129384 | 1/2 - 1 Mile NW |
| 47 | USGS3129184 | 1/2 - 1 Mile NNW |
| P49 | USGS3129382 | 1/2 - 1 Mile NE |
| P53 | USGS3129388 | 1/2 - 1 Mile NE |
| R54 | USGS3129564 | 1/2 - 1 Mile South |
| Q55 | USGS3129563 | 1/2 - 1 Mile SSE |
| S57 | USGS3129326 | 1/2 - 1 Mile West |
| S58 | USGS3129316 | 1/2 - 1 Mile West |
| S59 | USGS3129495 | 1/2 - 1 Mile West |
| Q60 | USGS3129549 | 1/2 - 1 Mile SSE |
| T61 | USGS3129342 | 1/2 - 1 Mile WNW |
| T62 | USGS3129356 | 1/2 - 1 Mile WNW |
| T63 | USGS3129362 | 1/2 - 1 Mile WNW |
| T64 | USGS3129366 | 1/2 - 1 Mile WNW |
| 65 | USGS3129352 | 1/2 - 1 Mile ENE |
| V68 | USGS3129461 | 1/2 - 1 Mile WSW |
| V71 | USGS3129455 | 1/2 - 1 Mile WSW |
| V74 | USGS3129446 | 1/2 - 1 Mile WSW |
| V76 | USGS3129434 | 1/2 - 1 Mile WSW |
| V79 | USGS3129416 | 1/2 - 1 Mile WSW |
| W80 | USGS3129562 | 1/2 - 1 Mile SE |
| U81 | USGS3129433 | 1/2 - 1 Mile ESE |
| U83 | USGS3129413 | 1/2 - 1 Mile ESE |
| W87 | USGS3129548 | 1/2 - 1 Mile SSE |
| W89 | USGS3129538 | 1/2 - 1 Mile SSE |
| X91 | USGS3129381 | 1/2 - 1 Mile NE |
| Z93 | USGS3129509 | 1/2 - 1 Mile SSW |
| Y94 | USGS3129197 | 1/2 - 1 Mile NNE |
| Y96 | USGS3129202 | 1/2 - 1 Mile NNE |
| AA97 | USGS3129372 | 1/2 - 1 Mile WNW |
| AA99 | USGS3129373 | 1/2 - 1 Mile WNW |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| Y100 | USGS3129207 | 1/2 - 1 Mile NNE |
| Y101 | USGS3129208 | 1/2 - 1 Mile NNE |
| Y103 | USGS3129210 | 1/2 - 1 Mile NNE |
| AC105 | USGS3129565 | 1/2 - 1 Mile SW |
| AB107 | USGS3129561 | 1/2 - 1 Mile SE |
| AE108 | USGS3129307 | 1/2 - 1 Mile West |
| AE109 | USGS3129288 | 1/2 - 1 Mile West |
| AB111 | USGS3129547 | 1/2 - 1 Mile SE |
| 112 | USGS3129343 | 1/2 - 1 Mile West |
| AB116 | USGS3129537 | 1/2 - 1 Mile SE |
| AD117 | USGS3129351 | 1/2 - 1 Mile ENE |
| AI118 | USGS3129456 | 1/2 - 1 Mile WSW |
| AJ119 | USGS3129674 | 1/2 - 1 Mile SSW |
| AI120 | USGS3129447 | 1/2 - 1 Mile WSW |
| AF121 | USGS3129178 | 1/2 - 1 Mile ENE |
| AI123 | USGS3129435 | 1/2 - 1 Mile WSW |
| AG124 | USGS3129196 | 1/2 - 1 Mile NE |
| 125 | USGS3129203 | 1/2 - 1 Mile NW |
| AH127 | USGS3129454 | 1/2 - 1 Mile ESE |
| AI128 | USGS3129417 | 1/2 - 1 Mile WSW |
| AL129 | USGS3129227 | 1/2 - 1 Mile North |
| AH131 | USGS3129445 | 1/2 - 1 Mile ESE |
| AK133 | USGS3129226 | 1/2 - 1 Mile North |
| AG135 | USGS3129201 | 1/2 - 1 Mile NE |
| AH136 | USGS3129432 | 1/2 - 1 Mile ESE |
| AL137 | USGS3129235 | 1/2 - 1 Mile North |
| AG138 | USGS3129206 | 1/2 - 1 Mile NE |
| AK139 | USGS3129234 | 1/2 - 1 Mile North |
| AN141 | USGS3129375 | 1/2 - 1 Mile WNW |
| AN142 | USGS3129385 | 1/2 - 1 Mile WNW |
| AL144 | USGS3129241 | 1/2 - 1 Mile North |
| AN146 | USGS3129390 | 1/2 - 1 Mile WNW |
| AK147 | USGS3129240 | 1/2 - 1 Mile North |
| AO148 | USGS3129639 | 1/2 - 1 Mile SSW |
| AN152 | USGS3129181 | 1/2 - 1 Mile WNW |
| AM153 | USGS3129380 | 1/2 - 1 Mile ENE |
| AO155 | USGS3129633 | 1/2 - 1 Mile SSW |

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|

**STATE DATABASE WELL INFORMATION**

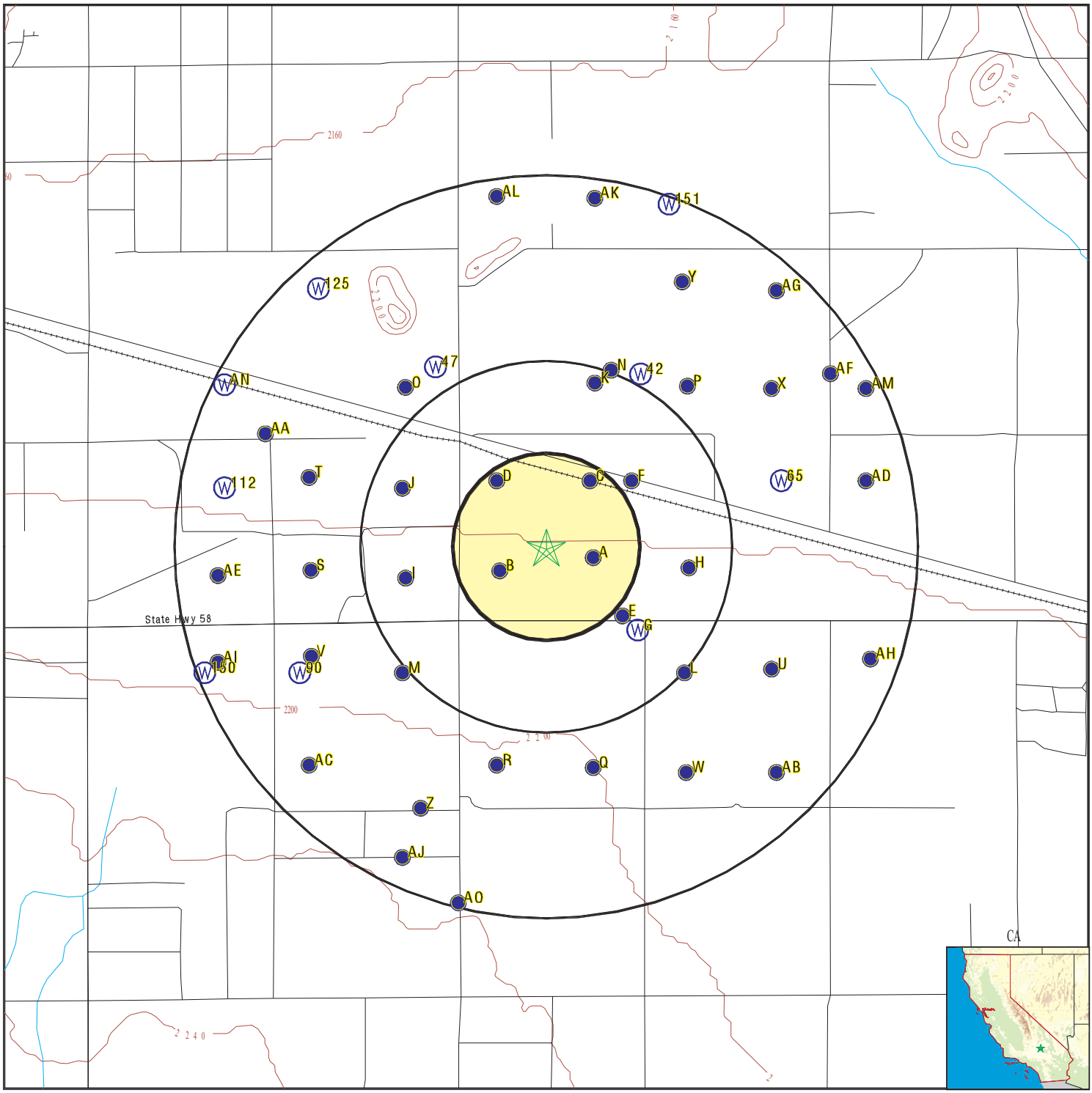
| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| A1 | CADW40000017871 | 0 - 1/8 Mile East |
| A2 | CADW40000017867 | 0 - 1/8 Mile ESE |
| A3 | CADW40000017851 | 0 - 1/8 Mile SE |
| B12 | CADW40000017850 | 1/8 - 1/4 Mile WSW |
| C13 | CADW40000017933 | 1/8 - 1/4 Mile NNE |
| D16 | CADW40000017932 | 1/8 - 1/4 Mile NW |
| E17 | CADW40000017824 | 1/8 - 1/4 Mile SE |
| F18 | CADW40000017934 | 1/4 - 1/2 Mile NE |
| H24 | CADW40000017852 | 1/4 - 1/2 Mile ESE |
| I31 | CADW40000017844 | 1/4 - 1/2 Mile WSW |
| K32 | CADW40000017995 | 1/4 - 1/2 Mile NNE |
| J33 | CADW40000017920 | 1/4 - 1/2 Mile WNW |
| L36 | CADW40000017768 | 1/4 - 1/2 Mile SE |
| N40 | CADW40000018005 | 1/2 - 1 Mile NNE |
| M43 | CADW40000017767 | 1/2 - 1 Mile SW |
| P45 | CADW40000017996 | 1/2 - 1 Mile NE |
| O48 | CADW40000017986 | 1/2 - 1 Mile NW |
| O50 | CADW40000018008 | 1/2 - 1 Mile NW |
| O51 | CADW40000017994 | 1/2 - 1 Mile NW |
| Q52 | CADW40000017694 | 1/2 - 1 Mile South |
| R56 | CADW40000017693 | 1/2 - 1 Mile SSW |
| U66 | CADW40000017779 | 1/2 - 1 Mile ESE |
| S67 | CADW40000017862 | 1/2 - 1 Mile West |
| S69 | CADW40000017843 | 1/2 - 1 Mile West |
| U70 | CADW40000017769 | 1/2 - 1 Mile ESE |
| T72 | CADW40000017919 | 1/2 - 1 Mile WNW |
| W73 | CADW40000017695 | 1/2 - 1 Mile SSE |
| T75 | CADW40000017931 | 1/2 - 1 Mile WNW |
| T77 | CADW40000017943 | 1/2 - 1 Mile WNW |
| T78 | CADW40000017948 | 1/2 - 1 Mile WNW |
| V82 | CADW40000017799 | 1/2 - 1 Mile WSW |
| W84 | CADW40000017673 | 1/2 - 1 Mile SSE |
| X85 | CADW40000017997 | 1/2 - 1 Mile NE |
| V86 | CADW40000017796 | 1/2 - 1 Mile WSW |
| V88 | CADW40000017790 | 1/2 - 1 Mile WSW |
| 90 | CADW40000017766 | 1/2 - 1 Mile WSW |
| Y92 | CADW40000018044 | 1/2 - 1 Mile NNE |
| Z95 | CADW40000017626 | 1/2 - 1 Mile SSW |
| Y98 | CADW40000018052 | 1/2 - 1 Mile NNE |
| AB102 | CADW40000017683 | 1/2 - 1 Mile SE |
| AA104 | CADW40000017971 | 1/2 - 1 Mile WNW |
| AD106 | CADW40000017935 | 1/2 - 1 Mile ENE |
| AF110 | CADW40000018006 | 1/2 - 1 Mile ENE |
| AC113 | CADW40000017692 | 1/2 - 1 Mile SW |
| AG114 | CADW40000018040 | 1/2 - 1 Mile NE |
| AH115 | CADW40000017791 | 1/2 - 1 Mile ESE |
| AE122 | CADW40000017849 | 1/2 - 1 Mile West |
| AK126 | CADW40000018093 | 1/2 - 1 Mile North |
| AJ130 | CADW40000017566 | 1/2 - 1 Mile SSW |
| AL132 | CADW40000018092 | 1/2 - 1 Mile North |
| AM134 | CADW40000017998 | 1/2 - 1 Mile ENE |
| AL140 | CADW40000018105 | 1/2 - 1 Mile North |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| AI143 | CADW40000017789 | 1/2 - 1 Mile WSW |
| AI145 | CADW40000017778 | 1/2 - 1 Mile WSW |
| AL149 | CADW40000018116 | 1/2 - 1 Mile North |
| 150 | CADW40000017765 | 1/2 - 1 Mile WSW |
| 151 | CADW40000018094 | 1/2 - 1 Mile NNE |
| AO154 | CADW40000017528 | 1/2 - 1 Mile SSW |

# PHYSICAL SETTING SOURCE MAP - 3062018.2s




County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

| | |
|---|---|
| SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property<br>ADDRESS: Highway 58/Mountain View Road<br>Hinkley CA 92347<br>LAT/LONG: 34.9249 / 117.1673 | CLIENT: CH2M Hill, Inc.<br>CONTACT: Juliana Harris<br>INQUIRY #: 3062018.2s<br>DATE: May 06, 2011 5:35 pm |

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| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **A1**<br>**East**<br>**0 - 1/8 Mile**<br>**Higher** | **CA WELLS** | **CADW40000017871** |

| | |
|---|---|
| Longitude: | -117.1648 |
| Latiude: | 34.9247 |
| Stwellno: | 10N03W26P004S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017871 |

---

| | | |
|---|---|---|
| **A2**<br>**ESE**<br>**0 - 1/8 Mile**<br>**Higher** | **CA WELLS** | **CADW40000017867** |

| | |
|---|---|
| Longitude: | -117.1648 |
| Latiude: | 34.9244 |
| Stwellno: | 10N03W26P003S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017867 |

---

| | | |
|---|---|---|
| **A3**<br>**SE**<br>**0 - 1/8 Mile**<br>**Higher** | **CA WELLS** | **CADW40000017851** |

| | |
|---|---|
| Longitude: | -117.1648 |
| Latiude: | 34.9239 |
| Stwellno: | 10N03W26P001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017851 |

---

| | | |
|---|---|---|
| **B4**<br>**WSW**<br>**0 - 1/8 Mile**<br>**Higher** | **FED USGS** | **USGS3221544** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345527117100601 |
| Site name: | 010N003W26N003S | | |
| Latitude: | 345527 | EDR Site id: | USGS3221544 |
| Longitude: | 1171006 | Dec lat: | 34.92414748 |
| Dec lon: | -117.16921146 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1965 |
| Date inventoried: | 19660812 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

**B5**
**WSW**
**1/8 - 1/4 Mile**
**Higher**

**FED USGS** **USGS3129305**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345526117100601 |
| Site name: | 010N003W26N001S | | |
| Latitude: | 345526 | EDR Site id: | USGS3129305 |
| Longitude: | 1171006 | Dec lat: | 34.92386971 |
| Dec lon: | -117.16921146 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19470323 |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 142 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-18 | Ground water data end date: | 1959-03-18 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-18 | 100.58 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**A6**
**East**
**1/8 - 1/4 Mile**
**Higher**

**FED USGS** **USGS3129334**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345530117095001 |
| Site name: | 010N003W26P005S | | |
| Latitude: | 345530 | EDR Site id: | USGS3129334 |
| Longitude: | 1170950 | Dec lat: | 34.92498081 |
| Dec lon: | -117.16476689 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1962 |
| Date inventoried: | 19660815 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 144 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **A7**<br>**East**<br>**1/8 - 1/4 Mile**<br>**Higher** | **FED USGS** | **USGS3129331** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345529117095001 |
| Site name: | 10N003W26P004S | | |
| Latitude: | 345529 | EDR Site id: | USGS3129331 |
| Longitude: | 1170950 | Dec lat: | 34.92470304 |
| Dec lon: | -117.16476689 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2180 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19570527 |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 154 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-18 | Ground water data end date: | 1959-03-18 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-18 | 102 | |

| | | |
|---|---|---|
| **A8**<br>**East**<br>**1/8 - 1/4 Mile**<br>**Higher** | **FED USGS** | **USGS3129337** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345531117095001 |
| Site name: | 010N003W26P006S | | |
| Latitude: | 345531 | EDR Site id: | USGS3129337 |
| Longitude: | 1170950 | Dec lat: | 34.92525858 |
| Dec lon: | -117.16476689 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1962 |
| Date inventoried: | 19660815 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 144 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**A9**
**ESE**
**1/8 - 1/4 Mile**
**Higher**

**FED USGS** **USGS3129325**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345528117095001 |
| Site name: | 010N003W26P003S | | |
| Latitude: | 345528 | EDR Site id: | USGS3129325 |
| Longitude: | 1170950 | Dec lat: | 34.92442527 |
| Dec lon: | -117.16476689 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2180 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19540516 |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 145 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-18 | Ground water data end date: | 1959-03-18 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-18 | 85 | |

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**A10**
**ESE**
**1/8 - 1/4 Mile**
**Higher**

**FED USGS** **USGS3131586**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345527117095001 |
| Site name: | 010N003W26P002S | | |
| Latitude: | 345527 | EDR Site id: | USGS3131586 |
| Longitude: | 1170950 | Dec lat: | 34.92414751 |
| Dec lon: | -117.16476688 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1936 |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 143 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **A11**<br>**ESE**<br>**1/8 - 1/4 Mile**<br>**Higher** | **FED USGS** | **USGS3129304** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345526117095001 |
| Site name: | 010N003W26P001S | | |
| Latitude: | 345526 | EDR Site id: | USGS3129304 |
| Longitude: | 1170950 | Dec lat: | 34.92386974 |
| Dec lon: | -117.16476688 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 195404 |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 136 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1954-05-07 | Ground water data end date: | 1959-03-18 |
| Ground water data count: | 2 | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 1959-03-18 | 99.28 | | | | |
| Note: A nearby site that taps the same aquifer was being pumped. | | | | | |
| 1954-05-07 | 86.40 | | | | |
| Note: A nearby site that taps the same aquifer was being pumped. | | | | | |

| | | |
|---|---|---|
| **B12**<br>**WSW**<br>**1/8 - 1/4 Mile**<br>**Higher** | **CA WELLS** | **CADW40000017850** |

| | |
|---|---|
| Longitude: | -117.1692 |
| Latiude: | 34.9239 |
| Stwellno: | 10N03W26N001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017850 |

---

**C13**
**NNE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **CADW40000017933**

| | |
|---|---|
| Longitude: | -117.1648 |
| Latiude: | 34.9275 |
| Stwellno: | 10N03W26L001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017933 |

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**D14**
**NNW**
**1/8 - 1/4 Mile**
**Lower**

**FED USGS** **USGS3129355**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345539117100601 |
| Site name: | 010N003W26M001S | | |
| Latitude: | 345539 | EDR Site id: | USGS3129355 |
| Longitude: | 1171006 | Dec lat: | 34.92748069 |
| Dec lon: | -117.16921149 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2175 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19590327 |
| Date inventoried: | 19590327 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 108 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |

| | | | |
|---|---|---|---|
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-27 | Ground water data end date: | 1959-03-27 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-27 | 87 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**C15**
**NE**
**1/8 - 1/4 Mile**
**Lower**

**FED USGS** **USGS3129354**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345539117095001 |
| Site name: | 010N003W26L001S | | |
| Latitude: | 345539 | EDR Site id: | USGS3129354 |
| Longitude: | 1170950 | Dec lat: | 34.92748072 |
| Dec lon: | -117.16476691 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2175 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19580325 |
| Date inventoried: | 19590206 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 165 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-06 | Ground water data end date: | 1959-02-06 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-06 | 86.54 | |

Note: A nearby site that taps the same aquifer was being pumped.

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **D16**<br>**NW**<br>**1/8 - 1/4 Mile**<br>**Lower** | **CA WELLS** | **CADW40000017932** |

| | |
|---|---|
| Longitude: | -117.1692 |
| Latiude: | 34.9275 |
| Stwellno: | 10N03W26M001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017932 |

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| | | |
|---|---|---|
| **E17**<br>**SE**<br>**1/8 - 1/4 Mile**<br>**Higher** | **CA WELLS** | **CADW40000017824** |

| | |
|---|---|
| Longitude: | -117.1634 |
| Latiude: | 34.9225 |
| Stwellno: | 10N03W35J008S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017824 |

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| | | |
|---|---|---|
| **F18**<br>**NE**<br>**1/4 - 1/2 Mile**<br>**Lower** | **CA WELLS** | **CADW40000017934** |

| | |
|---|---|
| Longitude: | -117.1628 |
| Latiude: | 34.9275 |
| Stwellno: | 10N03W26L002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017934 |

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| | | |
|---|---|---|
| **E19**<br>**SE**<br>**1/4 - 1/2 Mile**<br>**Higher** | **FED USGS** | **USGS3129491** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345521117094501 |
| Site name: | 010N003W35J008S | | |
| Latitude: | 345521 | EDR Site id: | USGS3129491 |
| Longitude: | 1170945 | Dec lat: | 34.92248091 |
| Dec lon: | -117.16337794 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2195 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 5 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | CoyoteCuddeback Lakes. California. Area = 1820 sq.mi. | | |
| Topographic: | Flat surface | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19930120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 207 | Hole depth: | 207 |
| Source of depth data: | driller | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1978-02-06 | Ground water data end date: | 1993-01-20 |
| Ground water data count: | 2 | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 1993-01-20 | 93.25 | | 1978-02-06 | 124 | |

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**F20**
**NE**
**1/4 - 1/2 Mile**
**Lower**

**FED USGS** **USGS3129353**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345539117094301 |
| Site name: | 010N003W26L002S | | |
| Latitude: | 345539 | EDR Site id: | USGS3129353 |
| Longitude: | 1170943 | Dec lat: | 34.92748072 |
| Dec lon: | -117.16282241 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2173 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 5 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | CoyoteCuddeback Lakes. California. Area = 1820 sq.mi. | | |
| Topographic: | Flat surface | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19921216 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | 470649728 | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1992-12-10 | Ground water data end date: | 2004-03-11 |
| Ground water data count: | 5 | | |

Ground-water levels, Number of Measurements: 5

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 2004-03-11 | 78.26 | | 2000-04-24 | 91.70 | |
| 2000-03-21 | 90.56 | | 1996-04-17 | 97.18 | |
| 1992-12-10 | 90.05 | | | | |

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**E21**
**SE**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS3129473**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345518117094501 |
| Site name: | 010N003W35C002S | | |
| Latitude: | 345518 | EDR Site id: | USGS3129473 |
| Longitude: | 1170945 | Dec lat: | 34.9216476 |
| Dec lon: | -117.16337793 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2185.0 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 5 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Mojave. California. Area = 4580 sq.mi. | | |
| Topographic: | Flood plain | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19920311 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 144.5 | Hole depth: | 147.0 |
| Source of depth data: | owner | | |
| Project number: | 470642400 | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 1992-03-03 |
| Water quality data end date: | 1992-03-03 | Water quality data count: | 1 |
| Ground water data begin date: | 0000-00-00 | Ground water data end date: | 0000-00-00 |
| Ground water data count: | 0 | | |

Ground-water levels, Number of Measurements: 0

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **G22**<br>**SE**<br>**1/4 - 1/2 Mile**<br>**Higher** | **FED USGS** | **USGS3129472** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345518117094401 |
| Site name: | 010N003W35C001S | | |
| Latitude: | 345518 | EDR Site id: | USGS3129472 |
| Longitude: | 1170944 | Dec lat: | 34.92164761 |
| Dec lon: | -117.16310015 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 5 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Mojave. California. Area = 4580 sq.mi. | | |
| Topographic: | Flood plain | | |
| Site type: | Ground-water other than Spring | Date construction: | 19880321 |
| Date inventoried: | 19920311 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 202.5 | Hole depth: | 207.0 |
| Source of depth data: | owner | | |
| Project number: | 470642400 | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 1992-03-03 |
| Water quality data end date: | 1992-03-03 | Water quality data count: | 1 |
| Ground water data begin date: | 0000-00-00 | Ground water data end date: | 0000-00-00 |
| Ground water data count: | 0 | | |

Ground-water levels, Number of Measurements: 0

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| | | |
|---|---|---|
| **G23**<br>**SE**<br>**1/4 - 1/2 Mile**<br>**Higher** | **FED USGS** | **USGS3129471** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345518117094301 |
| Site name: | 010N003W35C003S | | |
| Latitude: | 345518 | EDR Site id: | USGS3129471 |
| Longitude: | 1170943 | Dec lat: | 34.92164761 |
| Dec lon: | -117.16282236 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |

| | | | |
|---|---|---|---|
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 5 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Mojave. California. Area = 4580 sq.mi. | | |
| Topographic: | Flood plain | | |
| Site type: | Ground-water other than Spring | Date construction: | 19880424 |
| Date inventoried: | 19920311 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 112.5 | Hole depth: | 116.0 |
| Source of depth data: | owner | | |
| Project number: | 470642400 | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 1992-03-03 |
| Water quality data end date: | 1992-03-03 | Water quality data count: | 1 |
| Ground water data begin date: | 0000-00-00 | Ground water data end date: | 0000-00-00 |
| Ground water data count: | 0 | | |

Ground-water levels, Number of Measurements: 0

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**H24**
**ESE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CADW40000017852**

| | |
|---|---|
| Longitude: | -117.1603 |
| Latiude: | 34.9239 |
| Stwellno: | 10N03W26Q001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017852 |

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**I25**
**West**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS3129306**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345526117102201 |
| Site name: | 010N003W27R002S | | |
| Latitude: | 345526 | EDR Site id: | USGS3129306 |
| Longitude: | 1171022 | Dec lat: | 34.92386969 |
| Dec lon: | -117.17365604 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |

| | | | |
|---|---|---|---|
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 175 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**I26**
**WSW**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS3129494**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345525117102201 |
| Site name: | 010N003W27R001S | | |
| Latitude: | 345525 | EDR Site id: | USGS3129494 |
| Longitude: | 1171022 | Dec lat: | 34.92359192 |
| Dec lon: | -117.17365604 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 203 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |

| | | | |
|---|---|---|---|
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-18 | Ground water data end date: | 1959-03-18 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-18 | | |

Note: The site was being pumped.

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**J27**
**WNW**
**1/4 - 1/2 Mile**
**Lower**

**FED USGS** **USGS3129341**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345538117102201 |
| Site name: | 010N003W27J001S | | |
| Latitude: | 345538 | EDR Site id: | USGS3129341 |
| Longitude: | 1171022 | Dec lat: | 34.9272029 |
| Dec lon: | -117.17365607 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2180 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19530313 |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 149 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1953-03-13 | Ground water data end date: | 1953-03-13 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1953-03-13 | 91.65 | |

Note: A nearby site that taps the same aquifer was being pumped.

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **H28**<br>**East**<br>**1/4 - 1/2 Mile**<br>**Higher** | **FED USGS** | **USGS3129324** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345528117093401 |
| Site name: | 010N003W26Q003S | | |
| Latitude: | 345528 | EDR Site id: | USGS3129324 |
| Longitude: | 1170934 | Dec lat: | 34.9244253 |
| Dec lon: | -117.16032231 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2180 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

| | | |
|---|---|---|
| **H29**<br>**East**<br>**1/4 - 1/2 Mile**<br>**Higher** | **FED USGS** | **USGS3129315** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345527117093401 |
| Site name: | 010N003W26Q002S | | |
| Latitude: | 345527 | EDR Site id: | USGS3129315 |
| Longitude: | 1170934 | Dec lat: | 34.92414753 |
| Dec lon: | -117.1603223 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |

| | | | |
|---|---|---|---|
| Altitude: | 2180 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

**H30**
**East**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS3129303**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345526117093401 |
| Site name: | 010N003W26Q001S | | |
| Latitude: | 345526 | EDR Site id: | USGS3129303 |
| Longitude: | 1170934 | Dec lat: | 34.92386976 |
| Dec lon: | -117.1603223 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2180 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Flat surface | | |
| Site type: | Ground-water other than Spring | Date construction: | 1957 |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 143 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |

Peak flow data count: 0
Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00
Water quality data count: 0
Ground water data begin date: 1959-03-18
Ground water data end date: 1959-03-18
Ground water data count: 1

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-18 | 101.60 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**I31**
**WSW**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CADW40000017844**

Longitude: -117.1737
Latiude: 34.9236
Stwellno: 10N03W27R001S
Districtco: 3
Welluseco: Z
Countyco: 36
Gwcode: 604700
Site id: CADW40000017844

---

**K32**
**NNE**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADW40000017995**

Longitude: -117.1648
Latiude: 34.9311
Stwellno: 10N03W26F001S
Districtco: 3
Welluseco: Z
Countyco: 36
Gwcode: 604700
Site id: CADW40000017995

---

**J33**
**WNW**
**1/4 - 1/2 Mile**
**Lower**

**CA WELLS** **CADW40000017920**

Longitude: -117.1737
Latiude: 34.9272
Stwellno: 10N03W27J001S
Districtco: 3
Welluseco: Z
Countyco: 36
Gwcode: 604700
Site id: CADW40000017920

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **K34**<br>**NNE**<br>**1/4 - 1/2 Mile**<br>**Lower** | **FED USGS** | **USGS3129383** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345552117095001 |
| Site name: | 010N003W26F001S | | |
| Latitude: | 345552 | EDR Site id: | USGS3129383 |
| Longitude: | 1170950 | Dec lat: | 34.93109169 |
| Dec lon: | -117.16476694 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1951 |
| Date inventoried: | 19590206 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 200 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-06 | Ground water data end date: | 1959-02-06 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-06 | 83.95 | |

| | | |
|---|---|---|
| **K35**<br>**NNE**<br>**1/4 - 1/2 Mile**<br>**Lower** | **FED USGS** | **USGS3129389** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345553117095001 |
| Site name: | 010N003W26F003S | | |
| Latitude: | 345553 | EDR Site id: | USGS3129389 |
| Longitude: | 1170950 | Dec lat: | 34.93136946 |
| Dec lon: | -117.16476694 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1953 |
| Date inventoried: | 19590206 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 155 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

**L36**
**SE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CADW40000017768**

| | |
|---|---|
| Longitude: | -117.1603 |
| Latiude: | 34.92 |
| Stwellno: | 10N03W35B001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017768 |

---

**K37**
**NNE**
**1/4 - 1/2 Mile**
**Lower**

**FED USGS** **USGS3129180**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345554117095001 |
| Site name: | 010N003W26F004S | | |
| Latitude: | 345554 | EDR Site id: | USGS3129180 |
| Longitude: | 1170950 | Dec lat: | 34.93164723 |
| Dec lon: | -117.16476695 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1960 |
| Date inventoried: | 19660829 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 154 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**M38**
**SW**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS3129415**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345512117102201 |
| Site name: | 010N003W34A001S | | |
| Latitude: | 345512 | EDR Site id: | USGS3129415 |
| Longitude: | 1171022 | Dec lat: | 34.91998095 |
| Dec lon: | -117.17365601 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1954 |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 157 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | 104.95 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**N39**
**NNE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129183**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345555117095001 |
| Site name: | 010N003W26F005S | | |
| Latitude: | 345555 | EDR Site id: | USGS3129183 |
| Longitude: | 1170950 | Dec lat: | 34.93192499 |
| Dec lon: | -117.16476695 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1962 |
| Date inventoried: | 19660829 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 168 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **N40**<br>**NNE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CADW40000018005** |

| | |
|---|---|
| Longitude: | -117.1628 |
| Latiude: | 34.9317 |
| Stwellno: | 10N03W26F002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018005 |

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| | | |
|---|---|---|
| **L41**<br>**SE**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS3129414** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345512117093401 |
| Site name: | 010N003W35B001S | | |
| Latitude: | 345512 | EDR Site id: | USGS3129414 |
| Longitude: | 1170934 | Dec lat: | 34.91998102 |
| Dec lon: | -117.16032227 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | 108.66 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**42**
**NNE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129179**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345554117094301 |
| Site name: | 010N003W26F002S | | |
| Latitude: | 345554 | EDR Site id: | USGS3129179 |
| Longitude: | 1170943 | Dec lat: | 34.93164724 |
| Dec lon: | -117.16282244 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2167 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 5 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | CoyoteCuddeback Lakes. California. Area = 1820 sq.mi. | | |
| Topographic: | Flat surface | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19921216 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | 470649728 | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1992-12-10 | Ground water data end date: | 1992-12-10 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1992-12-10 | 86.34 | |

---

**M43**
**SW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017767**

| | |
|---|---|
| Longitude: | -117.1737 |
| Latiude: | 34.92 |
| Stwellno: | 10N03W34A001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017767 |

---

**O44**
**NW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129374**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345551117102201 |
| Site name: | 010N003W27H001S | | |
| Latitude: | 345551 | EDR Site id: | USGS3129374 |
| Longitude: | 1171022 | Dec lat: | 34.93081388 |
| Dec lon: | -117.1736561 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590203 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-03 | Ground water data end date: | 1959-02-03 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-03 | 72.06 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**P45**
**NE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000017996**

| | |
|---|---|
| Longitude: | -117.1603 |
| Latiude: | 34.9311 |
| Stwellno: | 10N03W26G001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017996 |

---

**O46**
**NW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129384**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345552117102201 |
| Site name: | 010N003W27H002S | | |
| Latitude: | 345552 | EDR Site id: | USGS3129384 |
| Longitude: | 1171022 | Dec lat: | 34.93109165 |
| Dec lon: | -117.1736561 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1930 |
| Date inventoried: | 19590203 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 105 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-03 | Ground water data end date: | 1959-02-03 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-03 | | |

Note: The site was dry (no water level recorded).

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**47**
**NNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129184**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345555117101801 |
| Site name: | 010N003W27H004S | | |
| Latitude: | 345555 | EDR Site id: | USGS3129184 |
| Longitude: | 1171018 | Dec lat: | 34.93192496 |
| Dec lon: | -117.17254496 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2168.83 | | |
| Altitude method: | Level or other surveying method | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | CoyoteCuddeback Lakes. California. Area = 1820 sq.mi. | | |
| Topographic: | Flat surface | | |
| Site type: | Ground-water other than Spring | Date construction: | 1992 |
| Date inventoried: | 19930119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 215 | Hole depth: | 215 |
| Source of depth data: | logs | | |
| Project number: | 470649726 | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1993-01-19 | Ground water data end date: | 1993-01-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1993-01-19 | 84.96 | |

Note: The site was being pumped.

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**O48**
**NW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000017986**

| | |
|---|---|
| Longitude: | -117.1737 |
| Latiude: | 34.9308 |
| Stwellno: | 10N03W27H001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017986 |

---

**P49**
**NE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129382**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345552117093401 |
| Site name: | 010N003W26G001S | | |
| Latitude: | 345552 | EDR Site id: | USGS3129382 |
| Longitude: | 1170934 | Dec lat: | 34.93109171 |
| Dec lon: | -117.16032236 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1939 |
| Date inventoried: | 19590206 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 155 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-06 | Ground water data end date: | 1959-02-06 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-06 | 70.10 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**O50**
**NW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000018008**

| | |
|---|---|
| Longitude: | -117.1725 |
| Latiude: | 34.9319 |
| Stwellno: | 10N03W27H004S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018008 |

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**O51**
**NW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000017994**

| | |
|---|---|
| Longitude: | -117.1737 |
| Latiude: | 34.9311 |
| Stwellno: | 10N03W27H002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017994 |

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**Q52**
**South**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017694**

| | |
|---|---|
| Longitude: | -117.1648 |
| Latiude: | 34.9164 |
| Stwellno: | 10N03W35F001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017694 |

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**P53**
**NE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129388**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345553117093401 |
| Site name: | 010N003W26G002S | | |
| Latitude: | 345553 | EDR Site id: | USGS3129388 |
| Longitude: | 1170934 | Dec lat: | 34.93136948 |
| Dec lon: | -117.16032236 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590206 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 175 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |

| | | | |
|---|---|---|---|
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**R54**
**South**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129564**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345459117100601 |
| Site name: | 010N003W35E001S | | |
| Latitude: | 345459 | EDR Site id: | USGS3129564 |
| Longitude: | 1171006 | Dec lat: | 34.91636999 |
| Dec lon: | -117.1692114 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2205 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 208 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | 108.68 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**Q55**
**SSE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129563**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345459117095001 |
| Site name: | 010N003W35F001S | | |
| Latitude: | 345459 | EDR Site id: | USGS3129563 |
| Longitude: | 1170950 | Dec lat: | 34.91637002 |
| Dec lon: | -117.16476682 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2195 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19500125 |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 227 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | 103.22 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**R56**
**SSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017693**

| | |
|---|---|
| Longitude: | -117.1692 |
| Latiude: | 34.9164 |
| Stwellno: | 10N03W35E001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017693 |

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**S57**
**West**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129326**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345528117103801 |
| Site name: | 010N003W27Q004S | | |
| Latitude: | 345528 | EDR Site id: | USGS3129326 |
| Longitude: | 1171038 | Dec lat: | 34.9244252 |
| Dec lon: | -117.17810062 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1915 |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 116 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**S58**
**West**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129316**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345527117103801 |
| Site name: | 010N003W27Q003S | | |
| Latitude: | 345527 | EDR Site id: | USGS3129316 |
| Longitude: | 1171038 | Dec lat: | 34.92414744 |
| Dec lon: | -117.17810062 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-18 | Ground water data end date: | 1959-03-18 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-18 | 93.32 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**S59**
**West**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129495**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345525117103801 |
| Site name: | 010N003W27Q001S | | |
| Latitude: | 345525 | EDR Site id: | USGS3129495 |
| Longitude: | 1171038 | Dec lat: | 34.9235919 |
| Dec lon: | -117.17810062 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190.2 | | |
| Altitude method: | Reported | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590318 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 120 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1946-07-25 | Ground water data end date: | 1959-03-18 |
| Ground water data count: | 40 | | |

Ground-water levels, Number of Measurements: 40

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 1959-03-18 | 94 | | 1949-02-17 | 48.9 | |
| 1949-01-17 | 49.8 | | 1948-12-09 | 57.7 | |
| 1948-10-13 | 57.8 | | 1948-09-14 | 63.3 | |
| 1948-03-11 | 56.3 | | 1948-02-17 | 41.1 | |
| 1947-12-12 | 46.6 | | 1947-10-15 | 57.5 | |
| 1947-08-11 | 63.5 | | 1947-07-24 | 64.0 | |
| 1947-07-10 | 67.9 | | 1947-06-25 | 61.5 | |
| 1947-06-12 | 60.9 | | 1947-05-29 | 59.5 | |
| 1947-05-15 | 51.2 | | 1947-04-30 | 59.7 | |
| 1947-04-09 | 58.2 | | 1947-03-21 | 55.4 | |
| 1947-03-05 | 59.2 | | 1947-02-20 | 51.5 | |
| 1947-02-06 | 44.4 | | 1947-01-23 | 54.8 | |
| 1947-01-01 | 44.4 | | 1946-12-17 | 55.3 | |
| 1946-12-02 | 44.5 | | 1946-11-25 | 44.6 | |
| 1946-11-18 | 45.4 | | 1946-11-16 | 46.0 | |
| 1946-10-28 | 46.7 | | 1946-10-21 | 57.6 | |
| 1946-10-15 | 48.7 | | | | |
| 1946-10-10 | 58.8 | | | | |
| Note: The site was being pumped. | | | | | |
| 1946-09-30 | 50.0 | | | | |
| 1946-09-23 | 59.9 | | | | |
| Note: The site was being pumped. | | | | | |
| 1946-09-16 | 59.7 | | | | |
| Note: The site was being pumped. | | | | | |
| 1946-09-06 | 59.7 | | | | |
| Note: The site was being pumped. | | | | | |
| 1946-08-07 | 49.5 | | 1946-07-25 | 53.4 | |

---

**Q60**
**SSE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129549**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345458117095001 |
| Site name: | 010N003W35F002S | | |
| Latitude: | 345458 | EDR Site id: | USGS3129549 |
| Longitude: | 1170950 | Dec lat: | 34.91609225 |
| Dec lon: | -117.16476682 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1950 |
| Date inventoried: | 19670117 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 145 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |

| | | | |
|---|---|---|---|
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**T61**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129342**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345538117103801 |
| Site name: | 010N003W27K001S | | |
| Latitude: | 345538 | EDR Site id: | USGS3129342 |
| Longitude: | 1171038 | Dec lat: | 34.92720288 |
| Dec lon: | -117.17810065 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1958 |
| Date inventoried: | 19590317 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 130 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-17 | Ground water data end date: | 1959-03-17 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-17 | 83.66 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**T62**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129356**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345539117103801 |
| Site name: | 010N003W27K002S | | |
| Latitude: | 345539 | EDR Site id: | USGS3129356 |
| Longitude: | 1171038 | Dec lat: | 34.92748065 |
| Dec lon: | -117.17810065 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590317 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 87.8 | Hole depth: | Not Reported |
| Source of depth data: | memory | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-17 | Ground water data end date: | 1959-03-17 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-17 | 85.53 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**T63**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129362**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345540117103801 |
| Site name: | 010N003W27K003S | | |
| Latitude: | 345540 | EDR Site id: | USGS3129362 |
| Longitude: | 1171038 | Dec lat: | 34.92775842 |
| Dec lon: | -117.17810065 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |

| | | | |
|---|---|---|---|
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590317 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 127.5 | Hole depth: | Not Reported |
| Source of depth data: | memory | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-17 | Ground water data end date: | 1959-03-17 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-17 | 82.20 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**T64**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129366**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345541117103801 |
| Site name: | 010N003W27K004S | | |
| Latitude: | 345541 | EDR Site id: | USGS3129366 |
| Longitude: | 1171038 | Dec lat: | 34.92803618 |
| Dec lon: | -117.17810066 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1959 |
| Date inventoried: | 19590317 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 182 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |

| | | | |
|---|---|---|---|
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-17 | Ground water data end date: | 1959-03-17 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-17 | 85.29 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**65**
**ENE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129352**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345539117091901 |
| Site name: | 010N003W26J001S | | |
| Latitude: | 345539 | EDR Site id: | USGS3129352 |
| Longitude: | 1170919 | Dec lat: | 34.92748076 |
| Dec lon: | -117.15615554 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 195510 |
| Date inventoried: | 19590206 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 196 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**U66**
**ESE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017779**

| | |
|---|---|
| Longitude: | -117.1562 |
| Latiude: | 34.9203 |
| Stwellno: | 10N03W35A002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017779 |

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**S67**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017862**

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.9242 |
| Stwellno: | 10N03W27Q003S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017862 |

---

**V68**
**WSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129461**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345516117103801 |
| Site name: | 010N003W34B005S | | |
| Latitude: | 345516 | EDR Site id: | USGS3129461 |
| Longitude: | 1171038 | Dec lat: | 34.92109199 |
| Dec lon: | -117.1781006 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2200 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 102.5 | Hole depth: | Not Reported |
| Source of depth data: | memory | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |

Peak flow data count: 0
Water quality data end date:0000-00-00
Ground water data begin date: 1958-11-19
Ground water data count: 1
Water quality data begin date: 0000-00-00
Water quality data count: 0
Ground water data end date: 1958-11-19

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | | |

Note: The site was dry (no water level recorded).

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**S69**
**West**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017843**

Longitude: -117.1781
Latiude: 34.9236
Stwellno: 10N03W27Q001S
Districtco: 3
Welluseco: Z
Countyco: 36
Gwcode: 604700
Site id: CADW40000017843

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**U70**
**ESE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017769**

Longitude: -117.1562
Latiude: 34.92
Stwellno: 10N03W35A001S
Districtco: 3
Welluseco: Z
Countyco: 36
Gwcode: 604700
Site id: CADW40000017769

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**V71**
**WSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129455**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345515117103801 |
| Site name: | 010N003W34B004S | | |
| Latitude: | 345515 | EDR Site id: | USGS3129455 |
| Longitude: | 1171038 | Dec lat: | 34.92081423 |
| Dec lon: | -117.17810059 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |

| | | | |
|---|---|---|---|
| Altitude: | 2200 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 52.5 | Hole depth: | Not Reported |
| Source of depth data: | memory | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | | |

Note: The site was dry (no water level recorded).

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**T72**
**WNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000017919**

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.9272 |
| Stwellno: | 10N03W27K001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017919 |

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**W73**
**SSE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017695**

| | |
|---|---|
| Longitude: | -117.1603 |
| Latiude: | 34.9164 |
| Stwellno: | 10N03W35G001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017695 |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **V74**<br>**WSW**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS3129446** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345514117103801 |
| Site name: | 010N003W34B003S | | |
| Latitude: | 345514 | EDR Site id: | USGS3129446 |
| Longitude: | 1171038 | Dec lat: | 34.92053646 |
| Dec lon: | -117.17810059 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2200 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 157 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | 97.60 | |

Note: A nearby site that taps the same aquifer was being pumped.

| | | |
|---|---|---|
| **T75**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CADW40000017931** |

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.9275 |
| Stwellno: | 10N03W27K002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017931 |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **V76**<br>**WSW**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS3129434** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345513117103801 |
| Site name: | 010N003W34B002S | | |
| Latitude: | 345513 | EDR Site id: | USGS3129434 |
| Longitude: | 1171038 | Dec lat: | 34.92025869 |
| Dec lon: | -117.17810059 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2200 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1956 |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

| | | |
|---|---|---|
| **T77**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CADW40000017943** |

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.9278 |
| Stwellno: | 10N03W27K003S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017943 |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **T78**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CADW40000017948** |

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.928 |
| Stwellno: | 10N03W27K004S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017948 |

---

| | | |
|---|---|---|
| **V79**<br>**WSW**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS3129416** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345512117103801 |
| Site name: | 010N003W34B001S | | |
| Latitude: | 345512 | EDR Site id: | USGS3129416 |
| Longitude: | 1171038 | Dec lat: | 34.91998092 |
| Dec lon: | -117.17810059 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2195 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1956 |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 157 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | 99.35 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**W80**
**SE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129562**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345459117093401 |
| Site name: | 010N003W35G001S | | |
| Latitude: | 345459 | EDR Site id: | USGS3129562 |
| Longitude: | 1170934 | Dec lat: | 34.91637004 |
| Dec lon: | -117.16032224 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2195 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | 100.58 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**U81**
**ESE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129433**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345513117091901 |
| Site name: | 010N003W35A002S | | |
| Latitude: | 345513 | EDR Site id: | USGS3129433 |
| Longitude: | 1170919 | Dec lat: | 34.9202588 |
| Dec lon: | -117.15615548 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1958 |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | 92 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**V82**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017799**

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.9211 |
| Stwellno: | 10N03W34B005S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017799 |

---

**U83**
**ESE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129413**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345512117091901 |
| Site name: | 010N003W35A001S | | |
| Latitude: | 345512 | EDR Site id: | USGS3129413 |
| Longitude: | 1170919 | Dec lat: | 34.91998104 |
| Dec lon: | -117.15615548 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19410801 |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 140 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | 90 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**W84**
**SSE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017673**

| | |
|---|---|
| Longitude: | -117.1603 |
| Latiude: | 34.9158 |
| Stwellno: | 10N03W35G003S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017673 |

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**X85**
**NE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000017997**

| | |
|---|---|
| Longitude: | -117.1562 |
| Latiude: | 34.9311 |
| Stwellno: | 10N03W26H001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017997 |

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**V86**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017796**

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.9208 |
| Stwellno: | 10N03W34B004S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017796 |

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**W87**
**SSE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129548**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345458117093401 |
| Site name: | 010N003W35G002S | | |
| Latitude: | 345458 | EDR Site id: | USGS3129548 |
| Longitude: | 1170934 | Dec lat: | 34.91609227 |
| Dec lon: | -117.16032224 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2195 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |

| | | | |
|---|---|---|---|
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**V88**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017790**

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.9205 |
| Stwellno: | 10N03W34B003S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017790 |

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**W89**
**SSE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129538**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345457117093401 |
| Site name: | 010N003W35G003S | | |
| Latitude: | 345457 | EDR Site id: | USGS3129538 |
| Longitude: | 1170934 | Dec lat: | 34.9158145 |
| Dec lon: | -117.16032224 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | 2195 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 100 | Hole depth: | Not Reported |
| Source of depth data: | memory | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | | |

Note: The site was dry (no water level recorded).

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**90**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017766**

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.92 |
| Stwellno: | 10N03W34B001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017766 |

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**X91**
**NE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129381**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345552117091901 |
| Site name: | 010N003W26H001S | | |
| Latitude: | 345552 | EDR Site id: | USGS3129381 |
| Longitude: | 1170919 | Dec lat: | 34.93109174 |
| Dec lon: | -117.15615557 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1947 |
| Date inventoried: | 19590206 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 213 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-06 | Ground water data end date: | 1959-02-06 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-06 | 83 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**Y92**
**NNE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000018044**

| | |
|---|---|
| Longitude: | -117.1606 |
| Latiude: | 34.935 |
| Stwellno: | 10N03W26B002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018044 |

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**Z93**
**SSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129509**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345453117101901 |
| Site name: | 010N003W34H001S | | |
| Latitude: | 345453 | EDR Site id: | USGS3129509 |
| Longitude: | 1171019 | Dec lat: | 34.91470337 |
| Dec lon: | -117.1728226 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2203 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 5 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | CoyoteCuddeback Lakes. California. Area = 1820 sq.mi. | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19930120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 250.0 | Hole depth: | Not Reported |
| Source of depth data: | owner | | |
| Project number: | 470642400 | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1993-01-20 |
| Ground water data count: | 2 | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 1993-01-20 | 112.15 | | 1958-11-19 | 107.16 | |

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**Y94**
**NNE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129197**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345605117093501 |
| Site name: | 010N003W26B001S | | |
| Latitude: | 345605 | EDR Site id: | USGS3129197 |
| Longitude: | 1170935 | Dec lat: | 34.93470269 |
| Dec lon: | -117.16060018 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2165 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19480603 |
| Date inventoried: | 19590204 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 180 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

**Z95**
**SSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017626**

| | |
|---|---|
| Longitude: | -117.1728 |
| Latiude: | 34.9147 |
| Stwellno: | 10N03W34H001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017626 |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **Y96**<br>**NNE**<br>**1/2 - 1 Mile**<br>**Lower** | **FED USGS** | **USGS3129202** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345606117093501 |
| Site name: | 010N003W26B002S | | |
| Latitude: | 345606 | EDR Site id: | USGS3129202 |
| Longitude: | 1170935 | Dec lat: | 34.93498046 |
| Dec lon: | -117.16060018 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2165 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1938 |
| Date inventoried: | 19590204 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 130 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-04 | Ground water data end date: | 1959-02-04 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-04 | 66.98 | |

Note: A nearby site that taps the same aquifer was being pumped.

| | | |
|---|---|---|
| **AA97**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Lower** | **FED USGS** | **USGS3129372** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345545117104601 |
| Site name: | 010N003W27Z001S | | |
| Latitude: | 345545 | EDR Site id: | USGS3129372 |
| Longitude: | 1171046 | Dec lat: | 34.92914724 |
| Dec lon: | -117.18032296 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | Not Reported | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**Y98**
**NNE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000018052**

| | |
|---|---|
| Longitude: | -117.1606 |
| Latiude: | 34.9355 |
| Stwellno: | 10N03W26B004S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018052 |

---

**AA99**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129373**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345546117104601 |
| Site name: | 010N003W27F001S | | |
| Latitude: | 345546 | EDR Site id: | USGS3129373 |
| Longitude: | 1171046 | Dec lat: | 34.92942501 |
| Dec lon: | -117.18032296 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | SESENWS27 T010N R003W |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2169 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 5 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | CoyoteCuddeback Lakes. California. Area = 1820 sq.mi. | | |
| Topographic: | Valley flat | | |
| Site type: | Ground-water other than Spring | Date construction: | 19851206 |
| Date inventoried: | 19880512 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 130 | Hole depth: | 130 |
| Source of depth data: | driller | | |
| Project number: | MOJAVE.AWAY | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 1990-05-21 |
| Water quality data end date: | 2003-05-16 | Water quality data count: | 8 |
| Ground water data begin date: | 1989-05-26 | Ground water data end date: | 2004-10-26 |
| Ground water data count: | 30 | | |

Ground-water levels, Number of Measurements: 30

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 2004-10-26 | 85.90 | | 2004-03-16 | 86.57 | |
| 2003-10-27 | 89.00 | | 2003-05-16 | 87.94 | |
| 2003-02-28 | 88.33 | | | | |
| Note: The site had been pumped recently. | | | | | |
| 2002-10-17 | 89.36 | | 2002-04-19 | 89.28 | |
| 2001-10-16 | 90.10 | | 2000-10-24 | 91.31 | |
| 2000-04-11 | 90.79 | | 1999-11-24 | 91.60 | |
| 1999-04-08 | 91.25 | | 1998-10-27 | 91.84 | |
| 1998-04-11 | 91.43 | | 1998-03-17 | 91.61 | |
| 1997-10-21 | 91.90 | | | | |
| 1997-03-26 | 99.49 | | | | |
| Note: The site was being pumped. | | | | | |
| 1996-10-11 | 101.28 | | | | |
| Note: The site was being pumped. | | | | | |
| 1996-05-16 | 91.84 | | | | |
| Note: The site had been pumped recently. | | | | | |
| 1995-10-16 | | | | | |
| Note: The site was being pumped. | | | | | |
| 1995-05-08 | 90.97 | | 1994-11-21 | 90.84 | |
| 1994-05-20 | 90.22 | | | | |
| Note: The site had been pumped recently. | | | | | |
| 1993-11-15 | 90.94 | | | | |
| Note: The site had been pumped recently. | | | | | |

Ground-water levels, continued.

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 1993-05-19 | 90.57 | | | | |
| 1992-05-27 | | | | | |
| Note: The site was being pumped. | | | | | |
| 1991-06-11 | 92.85 | | 1990-11-14 | 92.46 | |
| 1990-05-21 | 92.13 | | 1989-05-26 | 91.00 | |

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**Y100**
**NNE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129207**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345607117093501 |
| Site name: | 010N003W26B003S | | |
| Latitude: | 345607 | EDR Site id: | USGS3129207 |
| Longitude: | 1170935 | Dec lat: | 34.93525823 |
| Dec lon: | -117.16060018 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2165 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1930 |
| Date inventoried: | 19590204 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 104 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**Y101**
**NNE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129208**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345608117093501 |
| Site name: | 010N003W26B004S | | |
| Latitude: | 345608 | EDR Site id: | USGS3129208 |
| Longitude: | 1170935 | Dec lat: | 34.93553599 |
| Dec lon: | -117.16060018 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2165 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1958 |
| Date inventoried: | 19590204 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 170 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-04 | Ground water data end date: | 1959-02-04 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-04 | 115.60 | |

Note: The site was being pumped.

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**AB102**
**SE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017683**

| | |
|---|---|
| Longitude: | -117.1562 |
| Latiude: | 34.9161 |
| Stwellno: | 10N03W35H002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017683 |

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**Y103**
**NNE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129210**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345609117093501 |
| Site name: | 010N003W26B005S | | |
| Latitude: | 345609 | EDR Site id: | USGS3129210 |
| Longitude: | 1170935 | Dec lat: | 34.93581376 |
| Dec lon: | -117.16060019 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1961 |
| Date inventoried: | 19670106 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AA104**
**WNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000017971**

| | |
|---|---|
| Longitude: | -117.1803 |
| Latiude: | 34.9294 |
| Stwellno: | 10N03W27F001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017971 |

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**AC105**
**SW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129565**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345459117103801 |
| Site name: | 010N003W34G001S | | |
| Latitude: | 345459 | EDR Site id: | USGS3129565 |
| Longitude: | 1171038 | Dec lat: | 34.91636995 |
| Dec lon: | -117.17810055 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2205 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1948 |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 186 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | 90.01 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**AD106**
**ENE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000017935**

| | |
|---|---|
| Longitude: | -117.1517 |
| Latiude: | 34.9275 |
| Stwellno: | 10N03W25M001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017935 |

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**AB107**
**SE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129561**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345459117091901 |
| Site name: | 010N003W35H001S | | |
| Latitude: | 345459 | EDR Site id: | USGS3129561 |
| Longitude: | 1170919 | Dec lat: | 34.91637006 |
| Dec lon: | -117.15615545 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2195 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1948 |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 154 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AE108**
**West**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129307**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345526117105401 |
| Site name: | 010N003W27P002S | | |
| Latitude: | 345526 | EDR Site id: | USGS3129307 |
| Longitude: | 1171054 | Dec lat: | 34.92386965 |
| Dec lon: | -117.1825452 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1956 |
| Date inventoried: | 19590317 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 132 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-17 | Ground water data end date: | 1959-03-17 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-17 | | |

Note: The site was being pumped.

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**AE109**
**West**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129288**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345525117105401 |
| Site name: | 010N003W27P001S | | |
| Latitude: | 345525 | EDR Site id: | USGS3129288 |
| Longitude: | 1171054 | Dec lat: | 34.92359188 |
| Dec lon: | -117.1825452 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19471007 |
| Date inventoried: | 19590317 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 135 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **AF110**<br>**ENE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CADW40000018006** |

| | |
|---|---|
| Longitude: | -117.1534 |
| Latiude: | 34.9317 |
| Stwellno: | 10N03W25E006S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018006 |

---

| | | |
|---|---|---|
| **AB111**<br>**SE**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS3129547** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345458117091901 |
| Site name: | 010N003W35H002S | | |
| Latitude: | 345458 | EDR Site id: | USGS3129547 |
| Longitude: | 1170919 | Dec lat: | 34.91609229 |
| Dec lon: | -117.15615545 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2195 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1920 |
| Date inventoried: | 19660817 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 140 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | | |

Note: The site was dry (no water level recorded).

---

**112**
**West**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129343**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345538117105401 |
| Site name: | 010N003W27L001S | | |
| Latitude: | 345538 | EDR Site id: | USGS3129343 |
| Longitude: | 1171054 | Dec lat: | 34.92720286 |
| Dec lon: | -117.18254523 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2185 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19460410 |
| Date inventoried: | 19590317 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 136 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

**AC113**
**SW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017692**

| | |
|---|---|
| Longitude: | -117.1781 |
| Latiude: | 34.9164 |
| Stwellno: | 10N03W34G001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017692 |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **AG114**<br>**NE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CADW40000018040** |

| | |
|---|---|
| Longitude: | -117.1562 |
| Latiude: | 34.9347 |
| Stwellno: | 10N03W26A001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018040 |

---

| | | |
|---|---|---|
| **AH115**<br>**ESE**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **CADW40000017791** |

| | |
|---|---|
| Longitude: | -117.1517 |
| Latiude: | 34.9205 |
| Stwellno: | 10N03W36D002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017791 |

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| | | |
|---|---|---|
| **AB116**<br>**SE**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS3129537** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345457117091901 |
| Site name: | 010N003W35H003S | | |
| Latitude: | 345457 | EDR Site id: | USGS3129537 |
| Longitude: | 1170919 | Dec lat: | 34.91581453 |
| Dec lon: | -117.15615544 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1964 |
| Date inventoried: | 19660817 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 170 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |

| | | | |
|---|---|---|---|
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AD117**
**ENE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129351**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345539117090301 |
| Site name: | 010N003W25M001S | | |
| Latitude: | 345539 | EDR Site id: | USGS3129351 |
| Longitude: | 1170903 | Dec lat: | 34.92748078 |
| Dec lon: | -117.15171096 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2175 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1930 |
| Date inventoried: | 19590320 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 105 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-20 | Ground water data end date: | 1959-03-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-20 | 60 | |

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**AI118**
**WSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129456**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345515117105401 |
| Site name: | 010N003W34C004S | | |
| Latitude: | 345515 | EDR Site id: | USGS3129456 |
| Longitude: | 1171054 | Dec lat: | 34.9208142 |
| Dec lon: | -117.18254517 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2200 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AJ119**
**SSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129674**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345446117102201 |
| Site name: | 010N003W34J001S | | |
| Latitude: | 345446 | EDR Site id: | USGS3129674 |
| Longitude: | 1171022 | Dec lat: | 34.91275899 |
| Dec lon: | -117.17365594 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2200 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 19560712 |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 140 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | 97.38 | |

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**AI120**
**WSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129447**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345514117105401 |
| Site name: | 010N003W34C003S | | |
| Latitude: | 345514 | EDR Site id: | USGS3129447 |
| Longitude: | 1171054 | Dec lat: | 34.92053644 |
| Dec lon: | -117.18254517 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1955 |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 140 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | 92.99 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**AF121**
**ENE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129178**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345554117090901 |
| Site name: | 010N003W25E006S | | |
| Latitude: | 345554 | EDR Site id: | USGS3129178 |
| Longitude: | 1170909 | Dec lat: | 34.93164728 |
| Dec lon: | -117.15337771 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | HINKLEY | Map scale: | 24000 |
| Altitude: | 2168 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 2 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | CoyoteCuddeback Lakes. California. Area = 1820 sq.mi. | | |
| Topographic: | Flat surface | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19930324 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 200 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1993-03-24 | Ground water data end date: | 2004-03-11 |
| Ground water data count: | 5 | | |

Ground-water levels, Number of Measurements: 5

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 2004-03-11 | 75.99 | | | | |
| Note: The site had been pumped recently. | | | | | |
| 2000-03-22 | 84.15 | | 1998-03-17 | 90.18 | |
| 1996-04-30 | 90.43 | | | | |
| 1993-03-24 | 86.77 | | | | |
| Note: The site had been pumped recently. | | | | | |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **AE122**<br>**West**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **CADW40000017849** |

| | |
|---|---|
| Longitude: | -117.1826 |
| Latiude: | 34.9239 |
| Stwellno: | 10N03W27P002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017849 |

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| | | |
|---|---|---|
| **AI123**<br>**WSW**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS3129435** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345513117105401 |
| Site name: | 010N003W34C002S | | |
| Latitude: | 345513 | EDR Site id: | USGS3129435 |
| Longitude: | 1171054 | Dec lat: | 34.92025867 |
| Dec lon: | -117.18254517 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2190 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1955 |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 115 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | 90 | |

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**AG124**
**NE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129196**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345605117091901 |
| Site name: | 010N003W26A001S | | |
| Latitude: | 345605 | EDR Site id: | USGS3129196 |
| Longitude: | 1170919 | Dec lat: | 34.93470271 |
| Dec lon: | -117.1561556 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1950 |
| Date inventoried: | 19590320 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 120 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-19 | Ground water data end date: | 1959-03-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-19 | 50 | |

---

**125**
**NW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129203**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345606117103801 |
| Site name: | 010N003W27B001S | | |
| Latitude: | 345606 | EDR Site id: | USGS3129203 |
| Longitude: | 1171038 | Dec lat: | 34.93498037 |
| Dec lon: | -117.17810072 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590202 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 110 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

**AK126**
**North**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000018093**

| | |
|---|---|
| Longitude: | -117.1648 |
| Latiude: | 34.9383 |
| Stwellno: | 10N03W23P001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018093 |

---

**AH127**
**ESE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129454**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345515117090301 |
| Site name: | 010N003W36D003S | | |
| Latitude: | 345515 | EDR Site id: | USGS3129454 |
| Longitude: | 1170903 | Dec lat: | 34.92081436 |
| Dec lon: | -117.15171091 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | Not Reported | | |
| Altitude method: | Not Reported | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | Not Reported | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | 1966 |
| Date inventoried: | 19660817 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

**AI128**
**WSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129417**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345512117105401 |
| Site name: | 010N003W34C001S | | |
| Latitude: | 345512 | EDR Site id: | USGS3129417 |
| Longitude: | 1171054 | Dec lat: | 34.9199809 |
| Dec lon: | -117.18254516 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2200 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1958 |
| Date inventoried: | 19581119 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 100 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-19 | Ground water data end date: | 1958-11-19 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-19 | 95.35 | |

Note: The site was being pumped.

---

**AL129**
**North**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129227**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345618117100601 |
| Site name: | 010N003W23N001S | | |
| Latitude: | 345618 | EDR Site id: | USGS3129227 |
| Longitude: | 1171006 | Dec lat: | 34.93831363 |
| Dec lon: | -117.16921158 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2160 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 195003 |
| Date inventoried: | 19590203 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 178 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-03 | Ground water data end date: | 1959-02-03 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-03 | 68.45 | |

Note: The site was being pumped.

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**AJ130**
**SSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017566**

| | |
|---|---|
| Longitude: | -117.1737 |
| Latiude: | 34.9128 |
| Stwellno: | 10N03W34J001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017566 |

---

**AH131**
**ESE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129445**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345514117090301 |
| Site name: | 010N003W36D002S | | |
| Latitude: | 345514 | EDR Site id: | USGS3129445 |
| Longitude: | 1170903 | Dec lat: | 34.9205366 |
| Dec lon: | -117.1517109 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2180 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 136 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1958-11-20 | Ground water data end date: | 1958-11-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1958-11-20 | 69.44 | |

Note: A nearby site that taps the same aquifer was being pumped.

---

**AL132**
**North**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000018092**

| | |
|---|---|
| Longitude: | -117.1692 |
| Latiude: | 34.9383 |
| Stwellno: | 10N03W23N001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018092 |

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**AK133**
**North**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129226**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345618117095001 |
| Site name: | 010N003W23P001S | | |
| Latitude: | 345618 | EDR Site id: | USGS3129226 |
| Longitude: | 1170950 | Dec lat: | 34.93831365 |
| Dec lon: | -117.164767 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2160 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1953 |
| Date inventoried: | 19590204 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 160 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-04 | Ground water data end date: | 1959-02-04 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-04 | 70.88 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**AM134**
**ENE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000017998**

| | |
|---|---|
| Longitude: | -117.1517 |
| Latiude: | 34.9311 |
| Stwellno: | 10N03W25E001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017998 |

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**AG135**
**NE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129201**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345606117091901 |
| Site name: | 010N003W26A002S | | |
| Latitude: | 345606 | EDR Site id: | USGS3129201 |
| Longitude: | 1170919 | Dec lat: | 34.93498048 |
| Dec lon: | -117.1561556 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590320 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **AH136**<br>**ESE**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS3129432** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345513117090301 |
| Site name: | 010N003W36D001S | | |
| Latitude: | 345513 | EDR Site id: | USGS3129432 |
| Longitude: | 1170903 | Dec lat: | 34.92025883 |
| Dec lon: | -117.1517109 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2180 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1920 |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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| | | |
|---|---|---|
| **AL137**<br>**North**<br>**1/2 - 1 Mile**<br>**Lower** | **FED USGS** | **USGS3129235** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345619117100601 |
| Site name: | 010N003W23N002S | | |
| Latitude: | 345619 | EDR Site id: | USGS3129235 |
| Longitude: | 1171006 | Dec lat: | 34.93859139 |
| Dec lon: | -117.16921159 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |

| | | | |
|---|---|---|---|
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1910 |
| Date inventoried: | 19590203 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1932-12-22 | Ground water data end date: | 1932-12-22 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1932-12-22 | 28.5 | |

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**AG138**
**NE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129206**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345607117091901 |
| Site name: | 010N003W26A003S | | |
| Latitude: | 345607 | EDR Site id: | USGS3129206 |
| Longitude: | 1170919 | Dec lat: | 34.93525825 |
| Dec lon: | -117.1561556 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590320 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |

| | | | |
|---|---|---|---|
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AK139**
**North**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129234**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345619117095001 |
| Site name: | 010N003W23P002S | | |
| Latitude: | 345619 | EDR Site id: | USGS3129234 |
| Longitude: | 1170950 | Dec lat: | 34.93859141 |
| Dec lon: | -117.164767 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2160 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590204 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 50 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AL140**
**North**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000018105**

| | |
|---|---|
| Longitude: | -117.1692 |
| Latiude: | 34.9386 |
| Stwellno: | 10N03W23N002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018105 |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **AN141**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Lower** | **FED USGS** | **USGS3129375** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345551117105401 |
| Site name: | 010N003W27F002S | | |
| Latitude: | 345551 | EDR Site id: | USGS3129375 |
| Longitude: | 1171054 | Dec lat: | 34.93081384 |
| Dec lon: | -117.18254526 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590205 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-05 | Ground water data end date: | 1959-02-05 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-05 | 59.32 | |

Note: A nearby site that taps the same aquifer was being pumped.

| | | |
|---|---|---|
| **AN142**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Lower** | **FED USGS** | **USGS3129385** |

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345552117105401 |
| Site name: | 010N003W27F003S | | |
| Latitude: | 345552 | EDR Site id: | USGS3129385 |
| Longitude: | 1171054 | Dec lat: | 34.9310916 |
| Dec lon: | -117.18254526 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590205 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AI143**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017789**

| | |
|---|---|
| Longitude: | -117.1826 |
| Latiude: | 34.9205 |
| Stwellno: | 10N03W34C003S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017789 |

---

**AL144**
**North**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129241**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345620117100601 |
| Site name: | 010N003W23N003S | | |
| Latitude: | 345620 | EDR Site id: | USGS3129241 |
| Longitude: | 1171006 | Dec lat: | 34.93886916 |
| Dec lon: | -117.16921159 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1925 |
| Date inventoried: | 19590203 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 0 | Hole depth: | Not Reported |
| Source of depth data: | memory | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-02-03 | Ground water data end date: | 1959-02-03 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-02-03 | | |

Note: The site was dry (no water level recorded).

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**AI145**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017778**

| | |
|---|---|
| Longitude: | -117.1826 |
| Latiude: | 34.9203 |
| Stwellno: | 10N03W34C002S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017778 |

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**AN146**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129390**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345553117105401 |
| Site name: | 010N003W27F004S | | |
| Latitude: | 345553 | EDR Site id: | USGS3129390 |
| Longitude: | 1171054 | Dec lat: | 34.93136937 |
| Dec lon: | -117.18254527 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590205 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AK147**
**North**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129240**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345620117095001 |
| Site name: | 010N003W23P003S | | |
| Latitude: | 345620 | EDR Site id: | USGS3129240 |
| Longitude: | 1170950 | Dec lat: | 34.93886918 |
| Dec lon: | -117.16476701 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2160 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590204 | Mean greenwich time offset: | PST |

| | | | |
|---|---|---|---|
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 35 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AO148**
**SSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129639**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345440117101301 |
| Site name: | 010N003W35N001S | | |
| Latitude: | 345440 | EDR Site id: | USGS3129639 |
| Longitude: | 1171013 | Dec lat: | 34.9110924 |
| Dec lon: | -117.17115586 | Coor meth: | M |
| Coor accr: | S | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | Not Reported | Map scale: | Not Reported |
| Altitude: | 2212.00 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | Not Reported | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | CoyoteCuddeback Lakes. California. Area = 1820 sq.mi. | | |
| Topographic: | Not Reported | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | Not Reported | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 144 | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1930-09-19 | Ground water data end date: | 1971-05-01 |
| Ground water data count: | 34 | | |

Ground-water levels, Number of Measurements: 34

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|---|---|---|---|---|---|
| 1971-05-01 | | | | | |
| Note: The measurement was discontinued. | | | | | |
| 1971-04-14 | 108.03 | | 1970-11-11 | 110.67 | |
| 1970-03-23 | 111.34 | | 1969-10-28 | 110.37 | |
| 1969-04-08 | 106.60 | | 1968-11-14 | 104.29 | |
| 1968-04-11 | 104.73 | | 1967-10-23 | 104.68 | |
| 1967-03-15 | 104.39 | | 1966-10-19 | 104.12 | |
| 1966-03-16 | 103.15 | | 1965-10-18 | 102.86 | |
| 1965-03-10 | 102.07 | | 1964-10-14 | 101.64 | |
| 1964-03-08 | 100.83 | | 1963-10-30 | 100.40 | |
| 1963-03-13 | 100.94 | | 1962-11-20 | 99.05 | |
| 1962-03-15 | 98.33 | | 1961-10-27 | 98.54 | |
| 1961-03-08 | 98.74 | | 1960-11-16 | 99.34 | |
| 1960-03-02 | 105.41 | | 1959-12-01 | 99.31 | |
| 1958-11-20 | 96.58 | | 1932-12-22 | 54.4 | |
| 1932-07-26 | 55.4 | | 1932-04-21 | 54.1 | |
| 1932-03-29 | 53.4 | | 1932-03-04 | 52.8 | |
| 1931-08-06 | 54.0 | | 1930-12-19 | 51.1 | |
| 1930-09-19 | 52.0 | | | | |

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**AL149**
**North**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000018116**

| | |
|---|---|
| Longitude: | -117.1692 |
| Latiude: | 34.9389 |
| Stwellno: | 10N03W23N003S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018116 |

---

**150**
**WSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017765**

| | |
|---|---|
| Longitude: | -117.1826 |
| Latiude: | 34.92 |
| Stwellno: | 10N03W34C001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017765 |

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**151**
**NNE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW40000018094**

| | |
|---|---|
| Longitude: | -117.1606 |
| Latiude: | 34.9383 |
| Stwellno: | 10N03W23Q001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000018094 |

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**AN152**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129181**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345554117105401 |
| Site name: | 010N003W27F005S | | |
| Latitude: | 345554 | EDR Site id: | USGS3129181 |
| Longitude: | 1171054 | Dec lat: | 34.93164714 |
| Dec lon: | -117.18254527 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19590205 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**AM153**
**ENE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS3129380**

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345552117090301 |
| Site name: | 010N003W25E001S | | |
| Latitude: | 345552 | EDR Site id: | USGS3129380 |
| Longitude: | 1170903 | Dec lat: | 34.93109176 |
| Dec lon: | -117.15171099 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2170 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | 1920 |
| Date inventoried: | 19590320 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | 156 | Hole depth: | Not Reported |
| Source of depth data: | other reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | 0 | Daily flow data begin date: | 0000-00-00 |
| Daily flow data end date: | 0000-00-00 | Daily flow data count: | 0 |
| Peak flow data begin date: | 0000-00-00 | Peak flow data end date: | 0000-00-00 |
| Peak flow data count: | 0 | Water quality data begin date: | 0000-00-00 |
| Water quality data end date: | 0000-00-00 | Water quality data count: | 0 |
| Ground water data begin date: | 1959-03-20 | Ground water data end date: | 1959-03-20 |
| Ground water data count: | 1 | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|---|---|---|
| 1959-03-20 | 68 | |

Note: A nearby site that taps the same aquifer was being pumped.

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**AO154**
**SSW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADW40000017528**

| | |
|---|---|
| Longitude: | -117.1712 |
| Latiude: | 34.9111 |
| Stwellno: | 10N03W35N001S |
| Districtco: | 3 |
| Welluseco: | Z |
| Countyco: | 36 |
| Gwcode: | 604700 |
| Site id: | CADW40000017528 |

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**AO155**
**SSW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS3129633**

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|---|---|---|---|
| Agency cd: | USGS | Site no: | 345439117101301 |
| Site name: | 010N003W35N002S | | |
| Latitude: | 345439 | EDR Site id: | USGS3129633 |
| Longitude: | 1171013 | Dec lat: | 34.91081463 |
| Dec lon: | -117.17115585 | Coor meth: | M |
| Coor accr: | F | Latlong datum: | NAD27 |
| Dec latlong datum: | NAD83 | District: | 06 |
| State: | 06 | County: | 071 |
| Country: | US | Land net: | Not Reported |
| Location map: | BARSTOW | Map scale: | Not Reported |
| Altitude: | 2220 | | |
| Altitude method: | Interpolated from topographic map | | |
| Altitude accuracy: | 20 | | |
| Altitude datum: | National Geodetic Vertical Datum of 1929 | | |
| Hydrologic: | Not Reported | | |
| Topographic: | Pediment | | |
| Site type: | Ground-water other than Spring | Date construction: | Not Reported |
| Date inventoried: | 19581120 | Mean greenwich time offset: | PST |
| Local standard time flag: | Y | | |
| Type of ground water site: | Single well, other than collector or Ranney type | | |
| Aquifer Type: | Not Reported | | |
| Aquifer: | Not Reported | | |
| Well depth: | Not Reported | Hole depth: | Not Reported |
| Source of depth data: | Not Reported | | |
| Project number: | Not Reported | | |
| Real time data flag: | Not Reported | Daily flow data begin date: | Not Reported |
| Daily flow data end date: | Not Reported | Daily flow data count: | Not Reported |
| Peak flow data begin date: | Not Reported | Peak flow data end date: | Not Reported |
| Peak flow data count: | Not Reported | Water quality data begin date: | Not Reported |
| Water quality data end date: | Not Reported | Water quality data count: | Not Reported |
| Ground water data begin date: | Not Reported | Ground water data end date: | Not Reported |
| Ground water data count: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---|---|---|
| 92347 | 1 | 0 |

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for SAN BERNARDINO COUNTY, CA

Number of sites tested: 18

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.678 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

AQUIFLOW$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

**STREET AND ADDRESS INFORMATION**

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**Nelson Diaz Dairy - Adjacent Field Crop Property**
Highway 58/Mountain View Road
Hinkley, CA 92347

Inquiry Number: 3062018.5
May 09, 2011

# EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***
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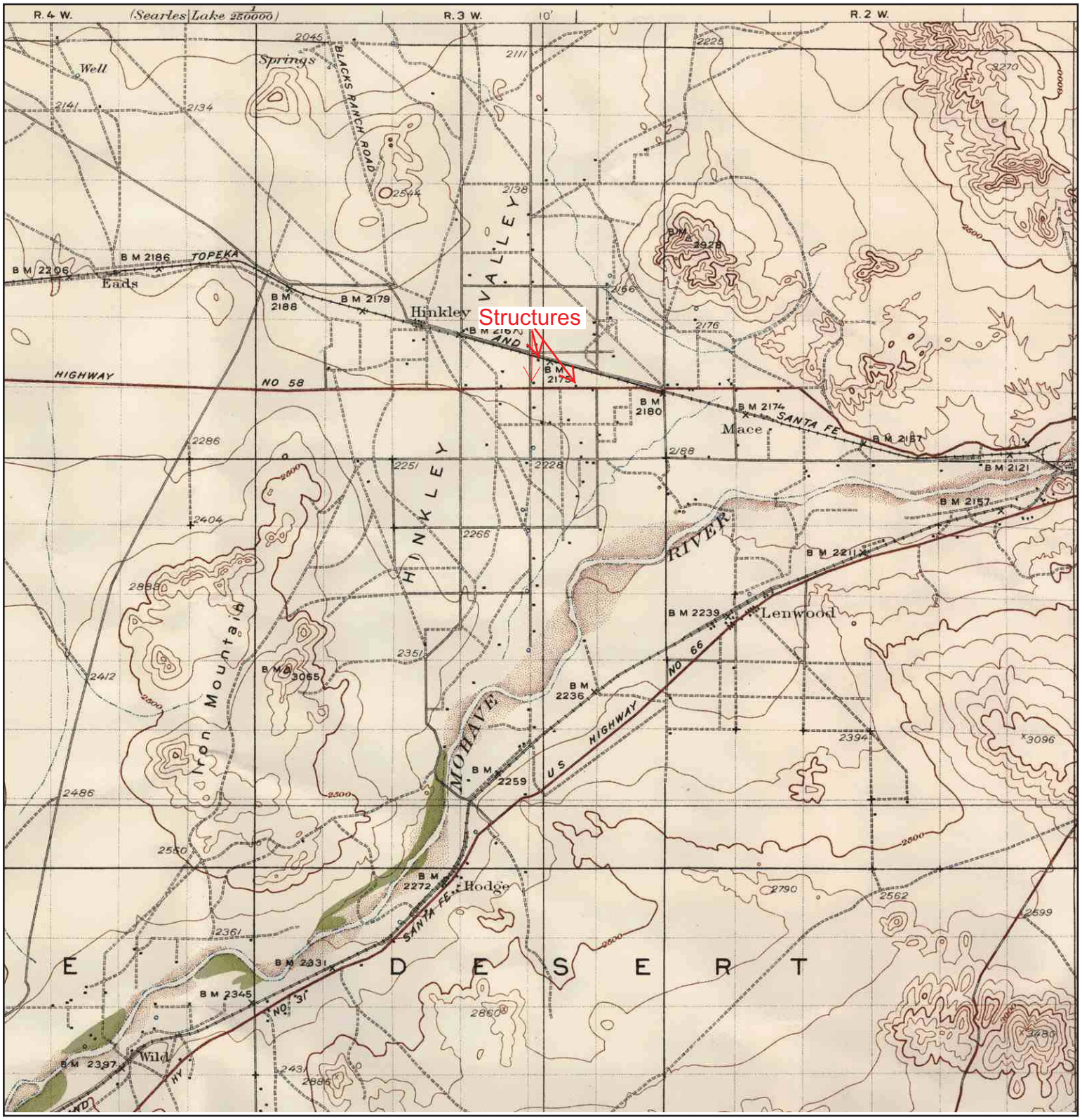
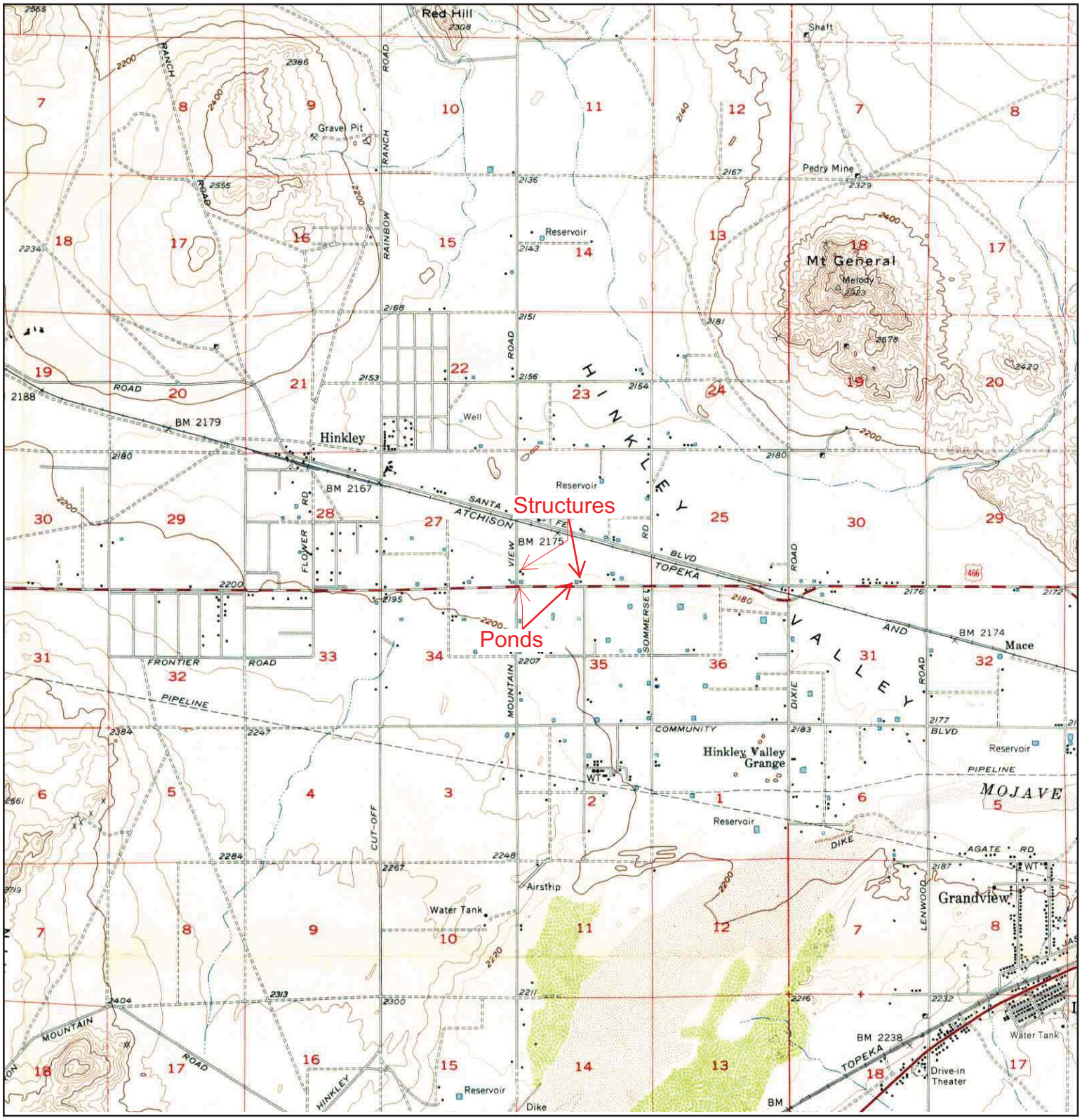
# Historical Topographic Map



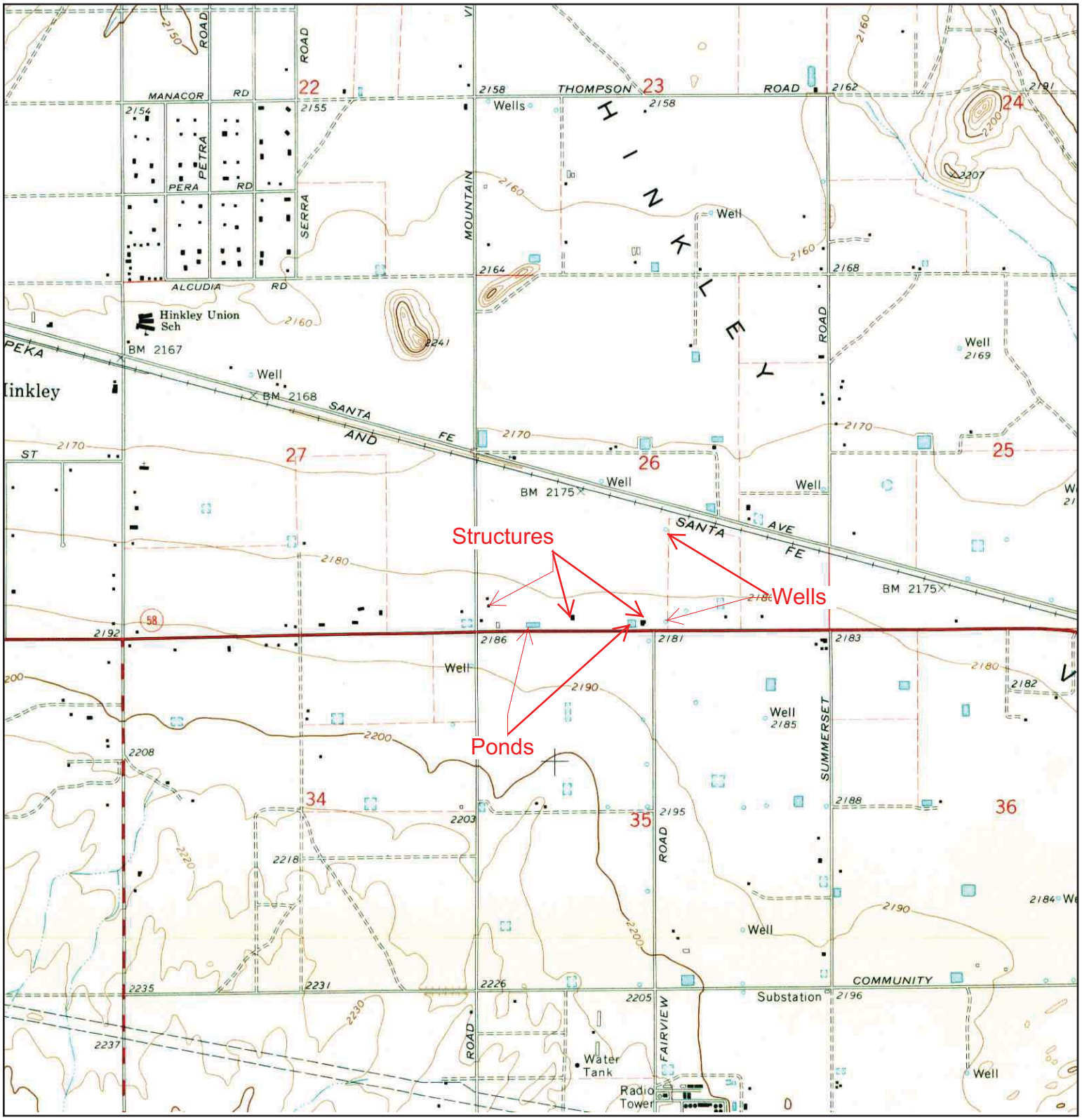

| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: BARSTOW<br>MAP YEAR: 1934<br><br>SERIES: 30<br>SCALE: 1:125000 | SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property<br>ADDRESS: Highway 58/Mountain View Road Hinkley, CA 92347<br>LAT/LONG: 34.9249 / -117.1673 | CLIENT: CH2M Hill, Inc.<br>CONTACT: Juliana Harris<br>INQUIRY#: 3062018.5<br>RESEARCH DATE: 05/09/2011 |

# Historical Topographic Map



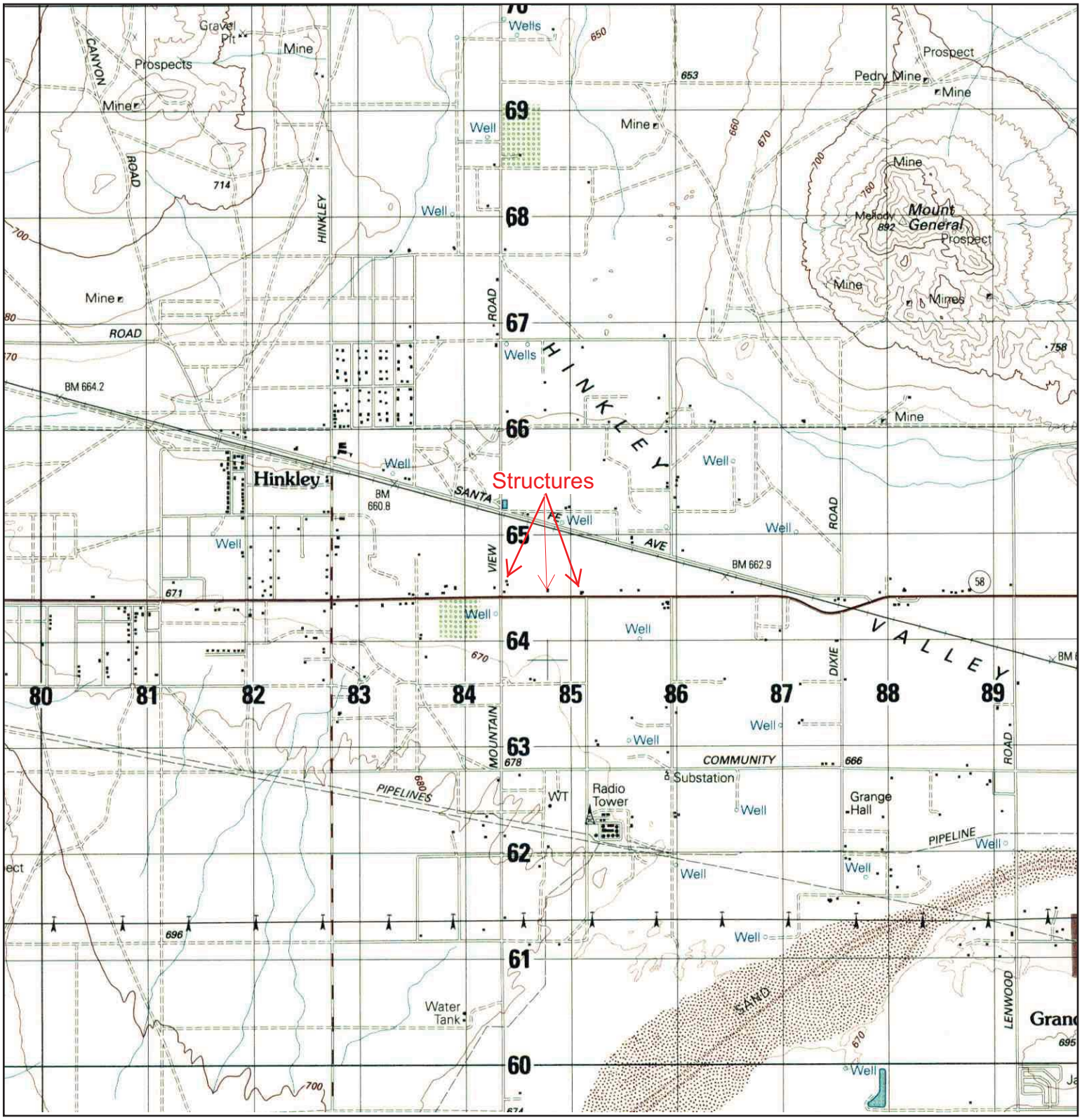

| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: BARSTOW<br>MAP YEAR: 1956<br><br>SERIES: 15<br>SCALE: 1:62500 | SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property<br>ADDRESS: Highway 58/Mountain View Road Hinkley, CA 92347<br>LAT/LONG: 34.9249 / -117.1673 | CLIENT: CH2M Hill, Inc.<br>CONTACT: Juliana Harris<br>INQUIRY#: 3062018.5<br>RESEARCH DATE: 05/09/2011 |

# Historical Topographic Map



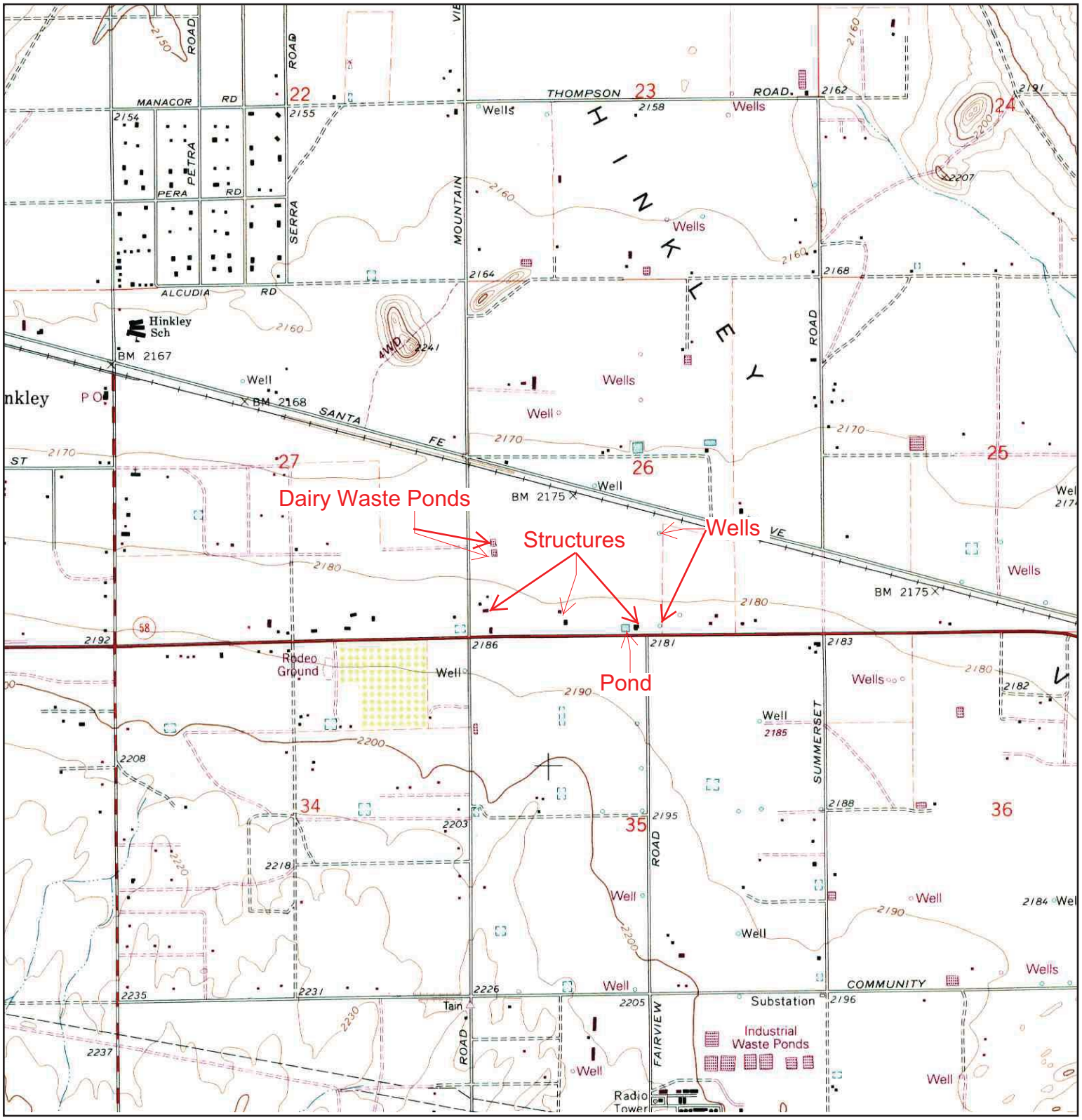

| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: HINKLEY<br>MAP YEAR: 1971<br><br>SERIES: 7.5<br>SCALE: 1:24000 | SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property<br>ADDRESS: Highway 58/Mountain View Road Hinkley, CA 92347<br>LAT/LONG: 34.9249 / -117.1673 | CLIENT: CH2M Hill, Inc.<br>CONTACT: Juliana Harris<br>INQUIRY#: 3062018.5<br>RESEARCH DATE: 05/09/2011 |

# Historical Topographic Map




| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: BARSTOW<br>MAP YEAR: 1984<br><br>SERIES: 15<br>SCALE: 1:50000 | SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property<br>ADDRESS: Highway 58/Mountain View Road Hinkley, CA 92347<br>LAT/LONG: 34.9249 / -117.1673 | CLIENT: CH2M Hill, Inc.<br>CONTACT: Juliana Harris<br>INQUIRY#: 3062018.5<br>RESEARCH DATE: 05/09/2011 |

# Historical Topographic Map




| | | | |
|---|---|---|---|
| N | TARGET QUAD<br>NAME: HINKLEY<br>MAP YEAR: 1993<br>REVISED:1971<br>SERIES: 7.5<br>SCALE: 1:24000 | SITE NAME: Nelson Diaz Dairy - Adjacent Field Crop Property<br>ADDRESS: Highway 58/Mountain View Road Hinkley, CA 92347<br>LAT/LONG: 34.9249 / -117.1673 | CLIENT: CH2M Hill, Inc.<br>CONTACT: Juliana Harris<br>INQUIRY#: 3062018.5<br>RESEARCH DATE: 05/09/2011 |

**Nelson Diaz Dairy - Adjacent Field Crop Property**
Highway 58/Mountain View Road
Hinkley, CA 92347

Inquiry Number: 3062018.4
May 12, 2011

# The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

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## Date EDR Searched Historical Sources:

Aerial Photography May 12, 2011

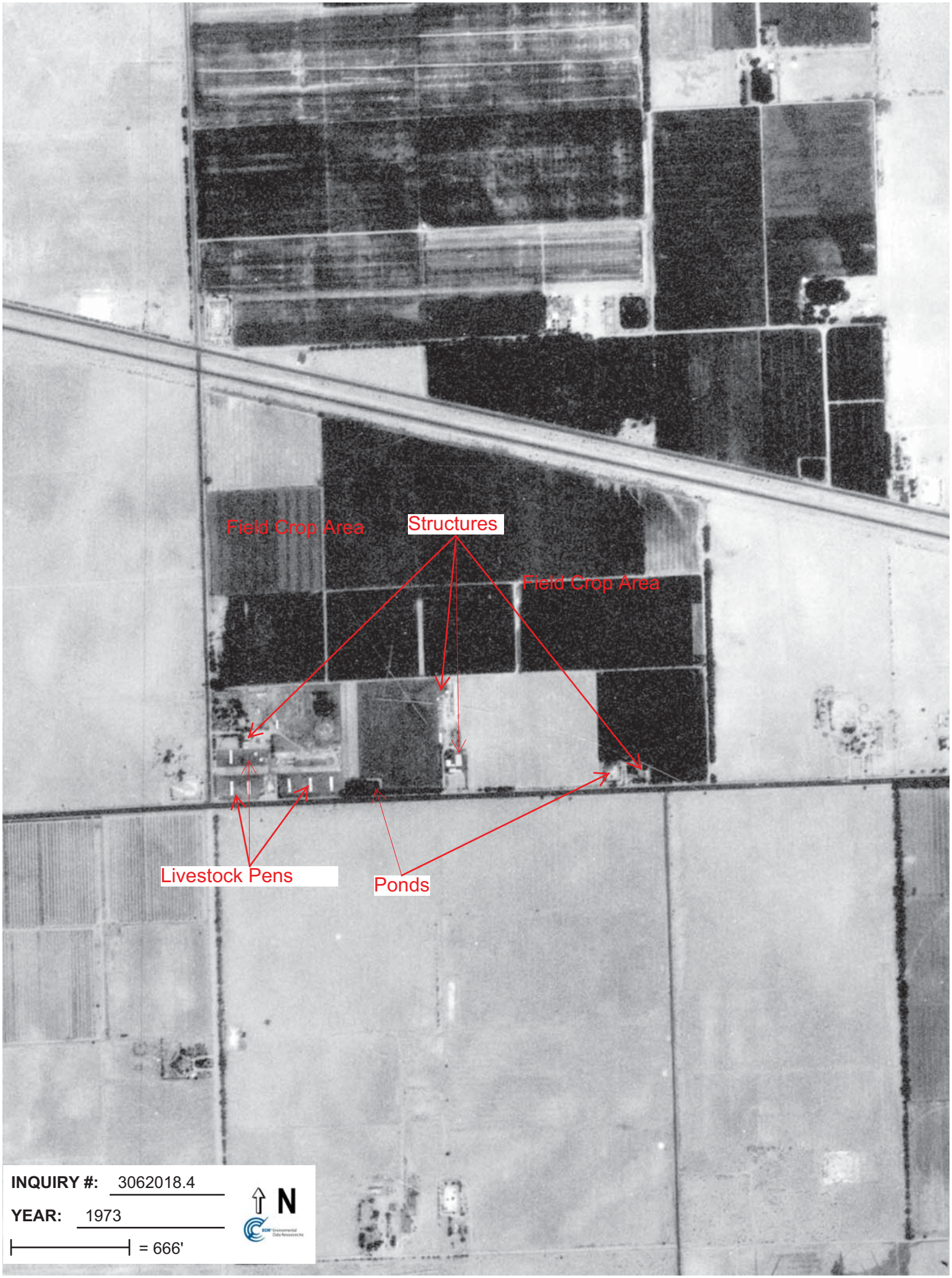
## Target Property:

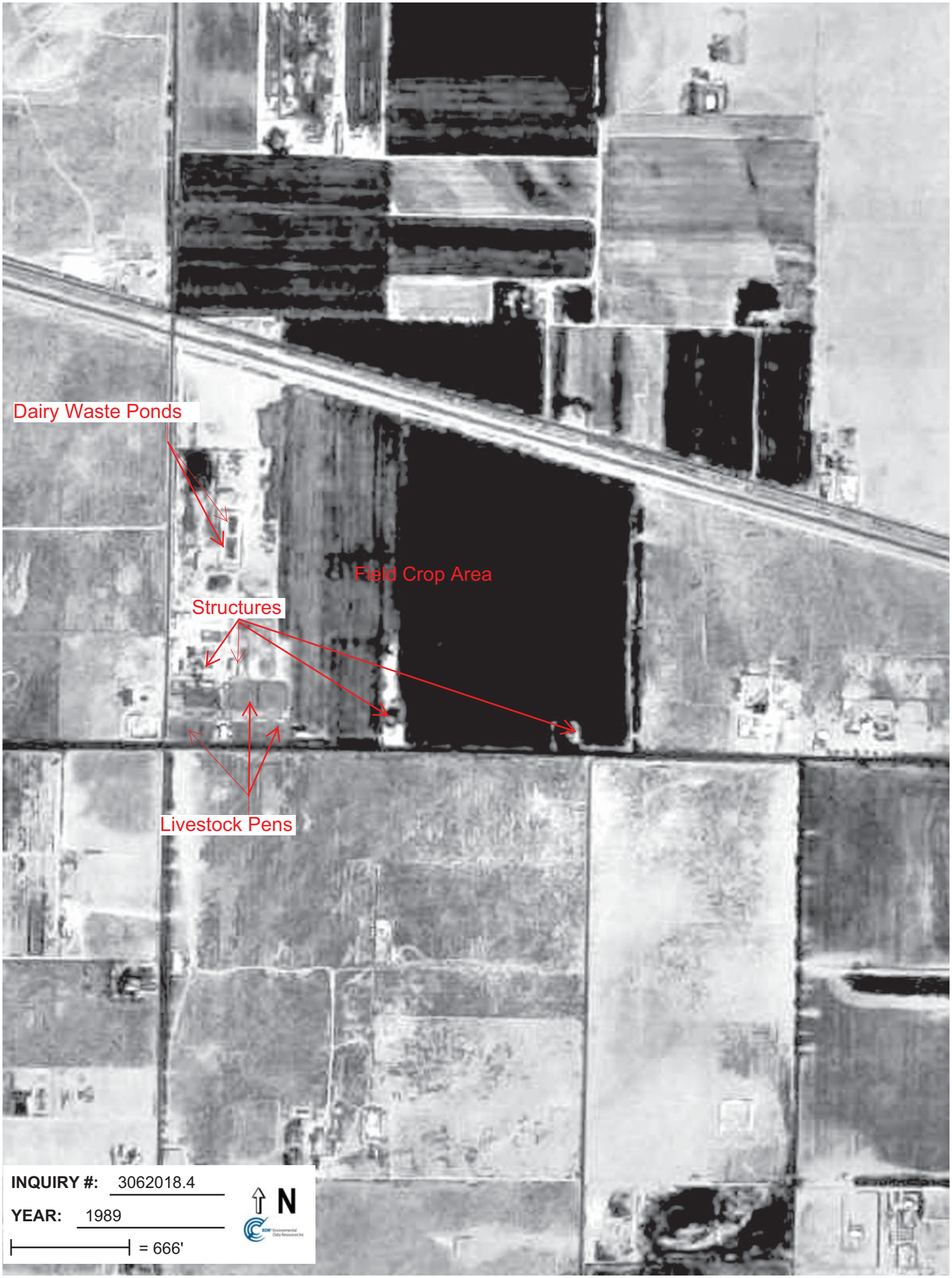
Highway 58/Mountain View Road
Hinkley, CA 92347

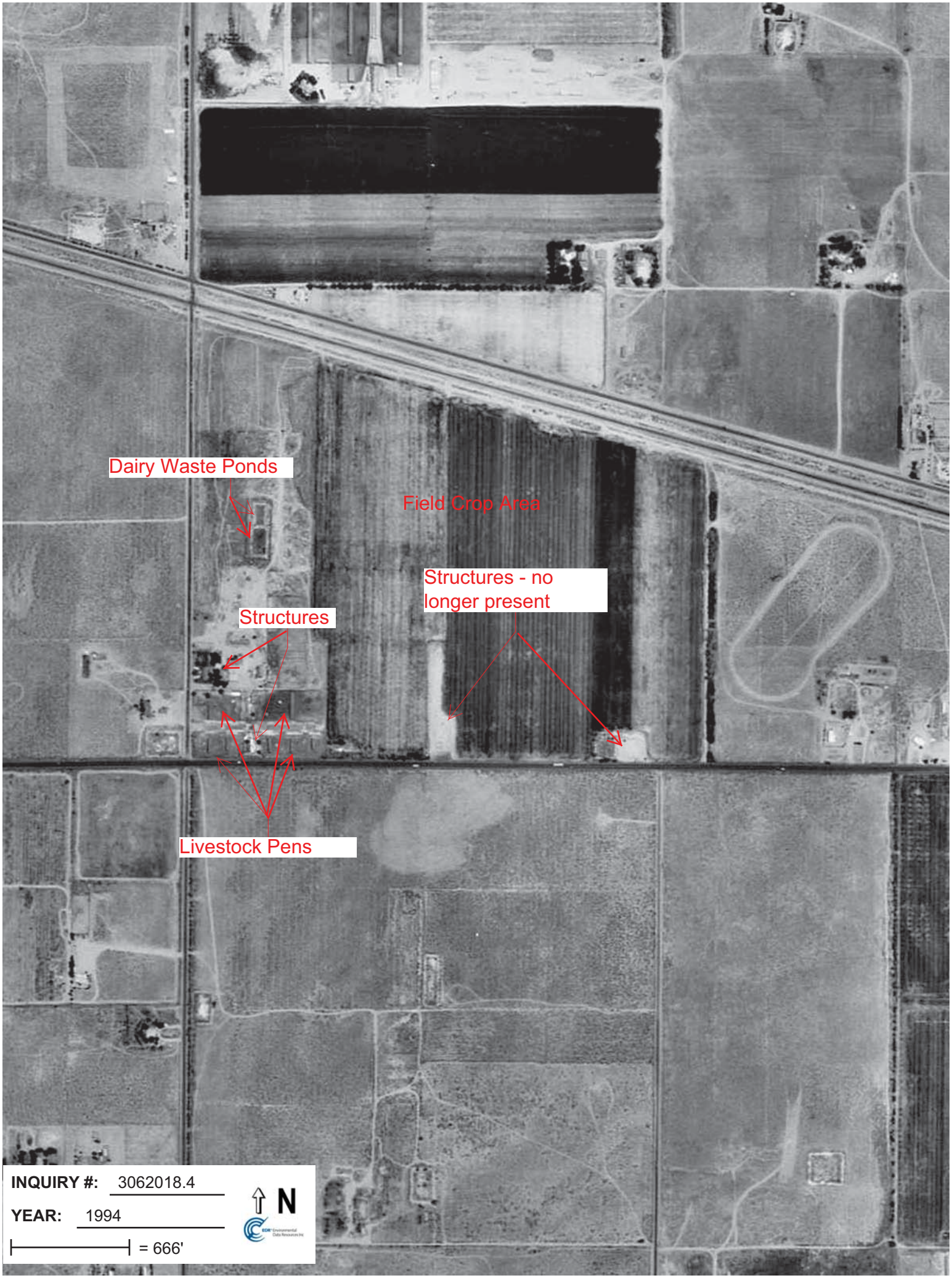
| ***Year*** | ***Scale*** | ***Details*** | ***Source*** |
|---|---|---|---|
| 1953 | Aerial Photograph. Scale: 1"=555' | Flight Year: 1953 | Southwestern |
| 1964 | Aerial Photograph. Scale: 1"=666' | Flight Year: 1964 | Mark Hurd |
| 1973 | Aerial Photograph. Scale: 1"=666' | Flight Year: 1973 | Teledyne |
| 1989 | Aerial Photograph. Scale: 1"=666' | Flight Year: 1989 | USGS |
| 1994 | Aerial Photograph. Scale: 1"=666' | Flight Year: 1994 | USGS |
| 2002 | Aerial Photograph. Scale: 1"=666' | Flight Year: 2002 | USGS |
| 2005 | Aerial Photograph. Scale: 1"=604' | Flight Year: 2005 | EDR |

AXL
Field Crop Area
Structure
Structures
Pond
Livestock Pens
INQUIRY #: 3062018.4
YEAR: 1953
= 555'
N

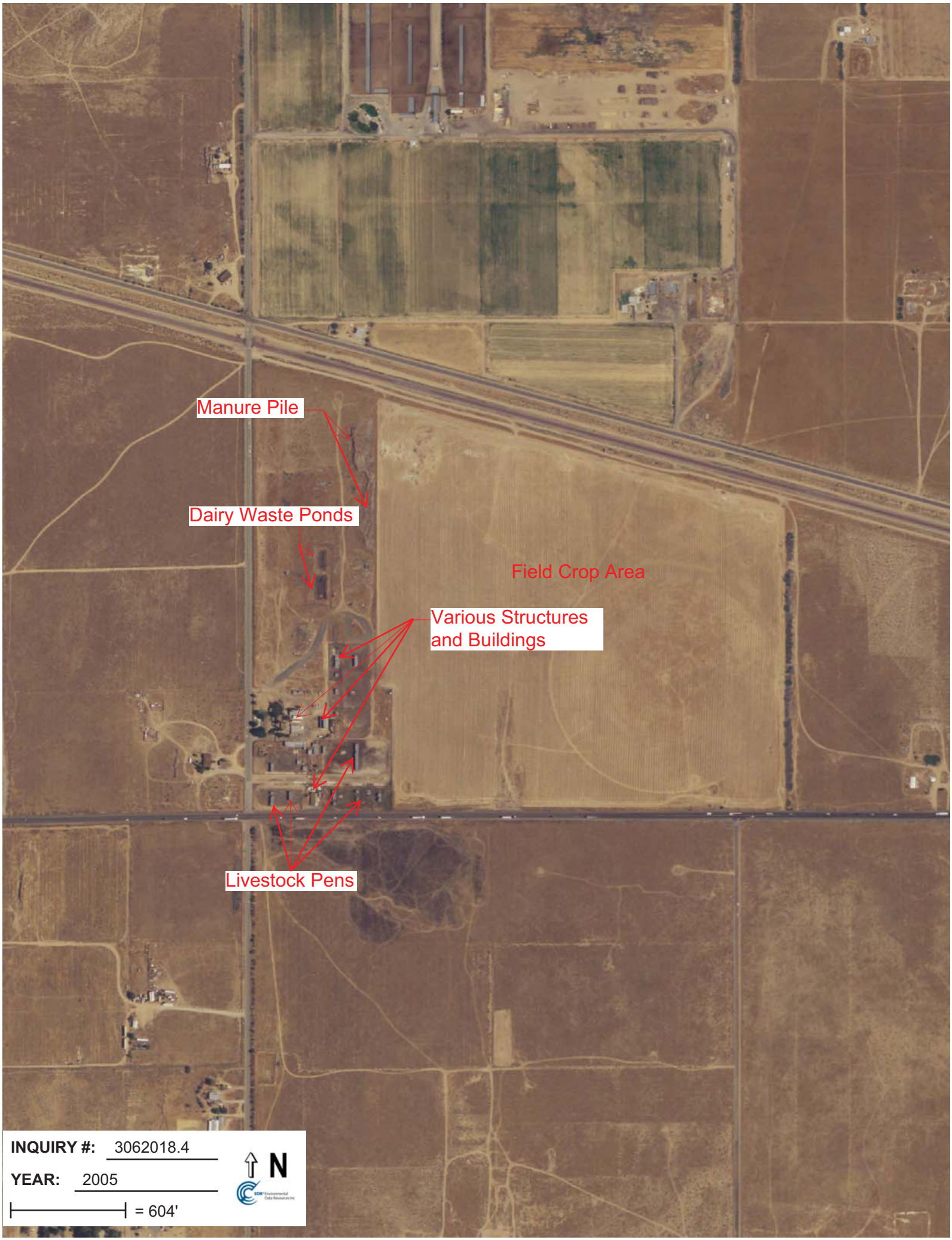
Field Crop Area
Structures
Ponds
Structure
Livestock Pens
INQUIRY #: 3062018.4
YEAR: 1964
= 666'
N


Field Crop Area
Structures
Field Crop Area
Livestock Pens
Ponds
INQUIRY #: 3062018.4
YEAR: 1973
= 666'
N


Dairy Waste Ponds
Field Crop Area
Structures
Livestock Pens
INQUIRY #: 3062018.4
YEAR: 1989
= 666'
N


Dairy Waste Ponds
Field Crop Area
Structures - no longer present
Structures
Livestock Pens
INQUIRY #: 3062018.4
YEAR: 1994
= 666'
N

Dairy Waste Ponds
Structures
Field Crop Area
Livestock Pens
INQUIRY #: 3062018.4
YEAR: 2002
= 666'
N


Manure Pile
Dairy Waste Ponds
Field Crop Area
Various Structures
and Buildings
Livestock Pens
INQUIRY #: 3062018.4
YEAR: 2005
= 604'
N

M/B&A | Meredith/Boli & Associates, Inc.
Scientific, Environmental Engineering, and Regulatory Consultants

9841 Airport Boulevard, Suite 1010
Los Angeles, CA 90045-5409
**telephone:** 310.670.9221
**fax:** 310.670.9512
**web:** www.meredithboli.com

**M/B&A Project No. MB-1998-51**

Reviewed historical photos 1944 to 1991 for
Sections 26
Section 35
and western portions of Sections 36 and 01

Evidence of livestock pens & surface impoundments were all inventoried for above sections.

# Summary of Observations from Historical Aerial Photographs Regarding Selected Residences, Ponds, and Pond-Related Wells in San Bernardino County, California

**Prepared by:**

MEREDITH/BOLI & ASSOCIATES, INC.
9841 Airport Boulevard, Suite 1010
Los Angeles, California 90045-5409

December 1998

* this BAO file excerpt for Section 26 only 12/13/10

## INTRODUCTION

This report presents the results from a focused evaluation of historical aerial photographs for a selected area of San Bernardino County, California (see Figure 1). The available aerial photographs (see Appendix A) were interpreted stereoscopically and monocularly to identify residences, structures, livestock pens, man-made ponds, water tanks/standpipes, and, in some instances, groundwater extraction wells/pumps at or near ponds that were not situated in the immediate vicinities of recorded wells.

Interpreted information was summarized in tabular and pictorial formats for each section or composite (i.e., Section 26, Section 35, and parts of Sections 1, 2, and 36 combined). The ensuing discussion uses Section 26 as an example. Similar tables and graphics are provided for the other sections, as well.

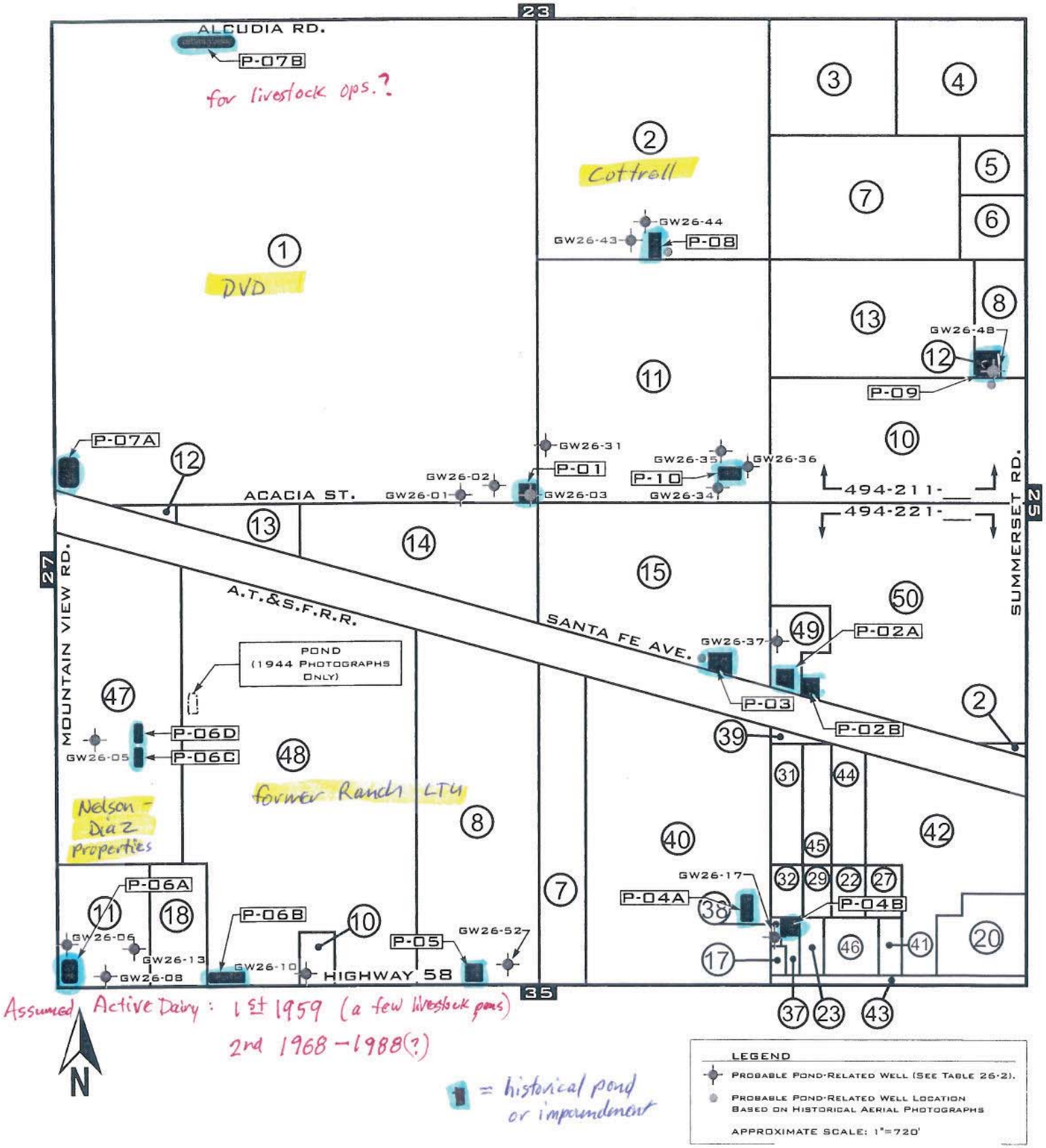
Table 26-1 contains information concerning residences in Section 26, TION, R3W, including the Assessor's Parcel Number (APN); street address, where available; approximate, line-of-sight, linear distance from the PG&E Hinkley Compressor Station at its closest point; approximate surficial dimensions of the main residential structure; timeframe first evident, based on aerial photograph dates; timeframe last evident, if applicable; location of the closest, possibly associated irrigation pond; the existence of a swimming pool at the residence; and other anecdotal observations/comments. Street/road names, APNs, and other locational information is depicted on Figure 26-1. Digital scans of various aerial photographs have been reproduced herein and should be referred to during review of the tables. Several abbreviations and/or identifiers were used to annotate the digital scans and are cross-referenced in the tables:

| | |
|---|---|
| R-25 | Residence Number 25. The abbreviation "R" includes one-story and two-story permanent residences, prefabricated homes, double mobile trailers, and structurally modified mobile trailers, with clear visual evidence of human occupancy. |
| S | Structure, such as a barn, shed, or building, for which a positive identification as a residence or mobile trailer could not be made solely from the available aerial photographs. |
| MT | Mobile trailer, which may or may not have been a residence. [Note: Double trailers were designated as permanent or prefabricated residences.] |
| T | Aboveground water tank or irrigation standpipe -- typically 5 feet or more in height. |
| P-12 | Pond Number 12. These man-made impoundments typically were associated with crop irrigation and were constructed with earthern dikes; sometimes they were lined with concrete. Surface drainage catch basins associated with livestock and dairy operations also were included in the "P" category. |

Table 26-2 contains information regarding probable pond-related, groundwater extraction wells. Owing to the high altitudes and small scales of many of the available aerial photographs, published records were the primary source of well information. The sources that were used to compile Table 26-2 are footnoted therein; the historical aerial photographs were interpreted to augment the published records primarily in instances where wells were not reported in close proximity to man-made ponds. The approximate locations of ponds and probable pond-related wells also are depicted on Figure 26-1.

# FIGURE 26-1

PARCEL NUMBERS, POND LOCATIONS, AND PROBABLE POND-RELATED WELLS
(SECTION 26, T10N, R3W, APN: 494-211-___ AND APN: 494-221-___).




Assumed Active Dairy: 1st 1959 (a few livestock pens)
2nd 1968 – 1988(?)

= historical pond or impoundment

MBA000265

## Table 26-3. Summary of Pond-Related Observations from Historical Aerial Photographs (Section 26)

| M/B&A Pond Identifier | 10/25/44[1] | 05/06/52 | 01/15/53 | 10/25/56 | 07/26/59 | 03/14/63 | 05/28/68 | 04/25/70 | 11/03/71 | 04/02/75[2] | 07/04/78 | 01/80 | 10/23/83 | 10/07/84 | 04/28/88 | 03/23/89 | 06/22/91 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P-01 | nc | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | Well at southwest corner (53); well at southeast corner (71) (75) |
| P-02A | nc | W | D | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| P-02B | nc | X | X | D | W | W | D | D | D | D | D | D | D | D | D | D | D | |
| P-03 | nc | W | W | W | W | D | W | W | W | D | X | X | X | X | X | X | X | Well at northwest corner (53) |
| P-04A | W | W | W | D | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| P-04B | X | X | W | W | W | X | X | X | X | X | X | X | X | X | X | X | X | Well at southwest corner (53) (56) (59) |
| P-05 | X | W | D | D | D | W | D | D | D | D | W | D | W | W | W | W | D | Well at northeast corner (53) (56) |
| P-06A | W | W | W | W | D | D | X | X | X | X | X | X | X | X | X | X | X | |
| P-06B | X | X | X | X | W | D | W | D | D | W | W | D | W | D | D | D | D | |
| P-06C | X | X | X | X | X | X | X | X | X | X | X | X | W | W | D | D | D | Associated with livestock pens |
| P-06D | X | X | X | X | X | X | X | X | X | X | X | X | X | X | W | D | D | Associated with livestock pens |
| P-07A | nc | X | X | W | W | W | W | W | W | W | X | X | X | X | X | X | X | |
| P-07B | X | X | X | X | X | X | X | X | X | nc | X | X | W | D | D | D | D | Possible catch basin for livestock feed lot dramace |
| P-08 | nc | W | W | W | D | W | W | W | W | nc | W | D | D | D | D | D | D | Well at southeast corner (53) |
| P-09 | nc | W | D | D | D | D | D | D | D | nc | D | D | D | D | D | D | D | Well at southeast corner (53) (56) (71) |
| P-10 | nc | W | W | W | D | D | W | W | W | W | W | W | W | W | W | W | D | |

(1) The available 10/25/44 aerial photographs did not cover ("nc") most of Section 26.
(2) The available 04/02/75 aerial photographs did not cover ("nc") the P-08 or P-09 locations.
(56) Year date of aerial photographs in which a probable well/pump was identified.

W = Wet -- either containing standing water or exhibiting wetted soil indicative of recent use.
D = Dry.
X = Not present.
nc = Area not covered by the available aerial photographs.

Historical Impoundments

on DVD farm/dairy

on Nelson-Diaz dairy

# SECTION 26
## -1983-

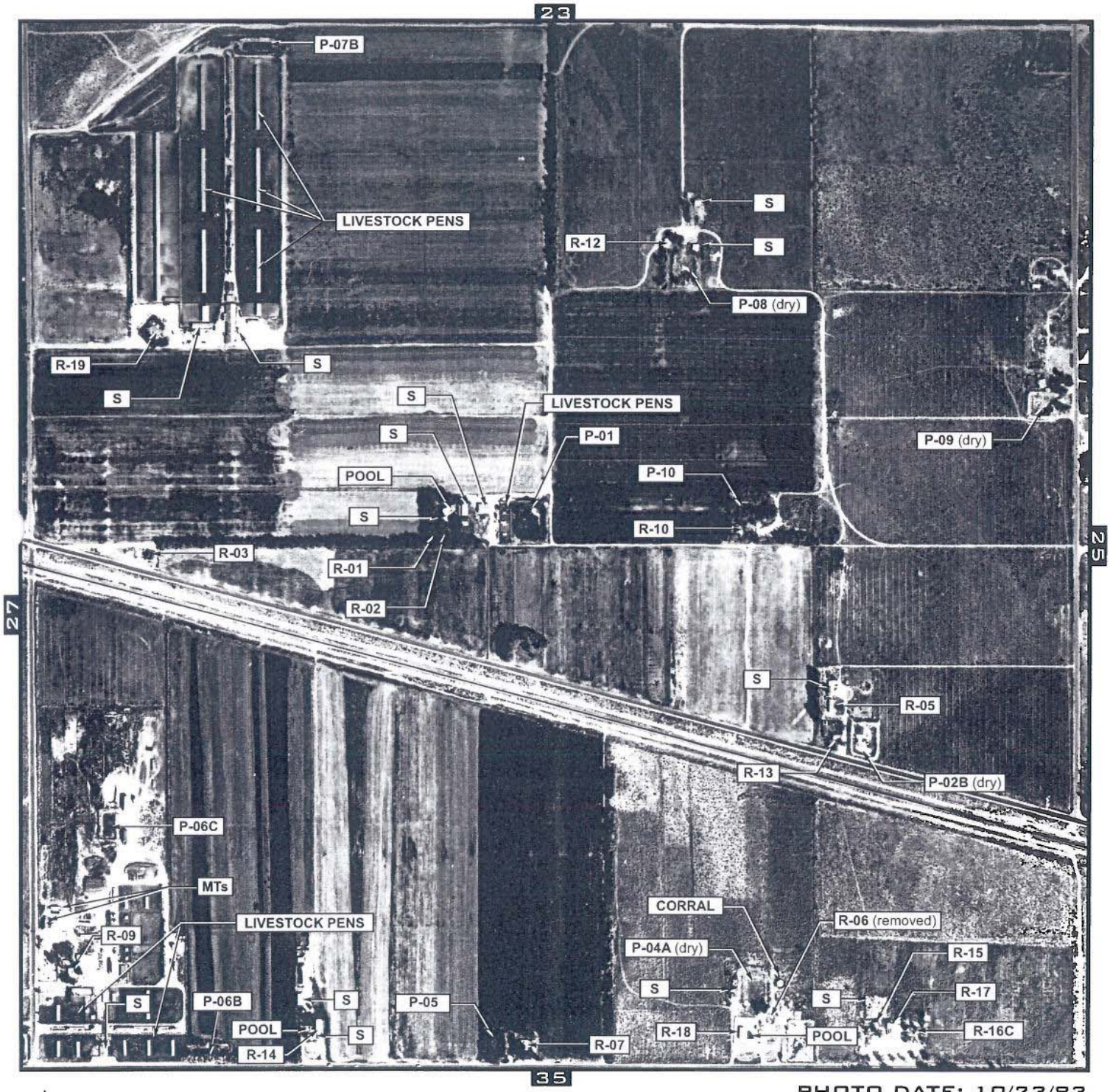



PHOTO DATE: 10/23/83
APPROXIMATE SCALE: 1"=720'
FRAME No.: 3-15

N

MBA000277

# SECTION 26
## -1984-

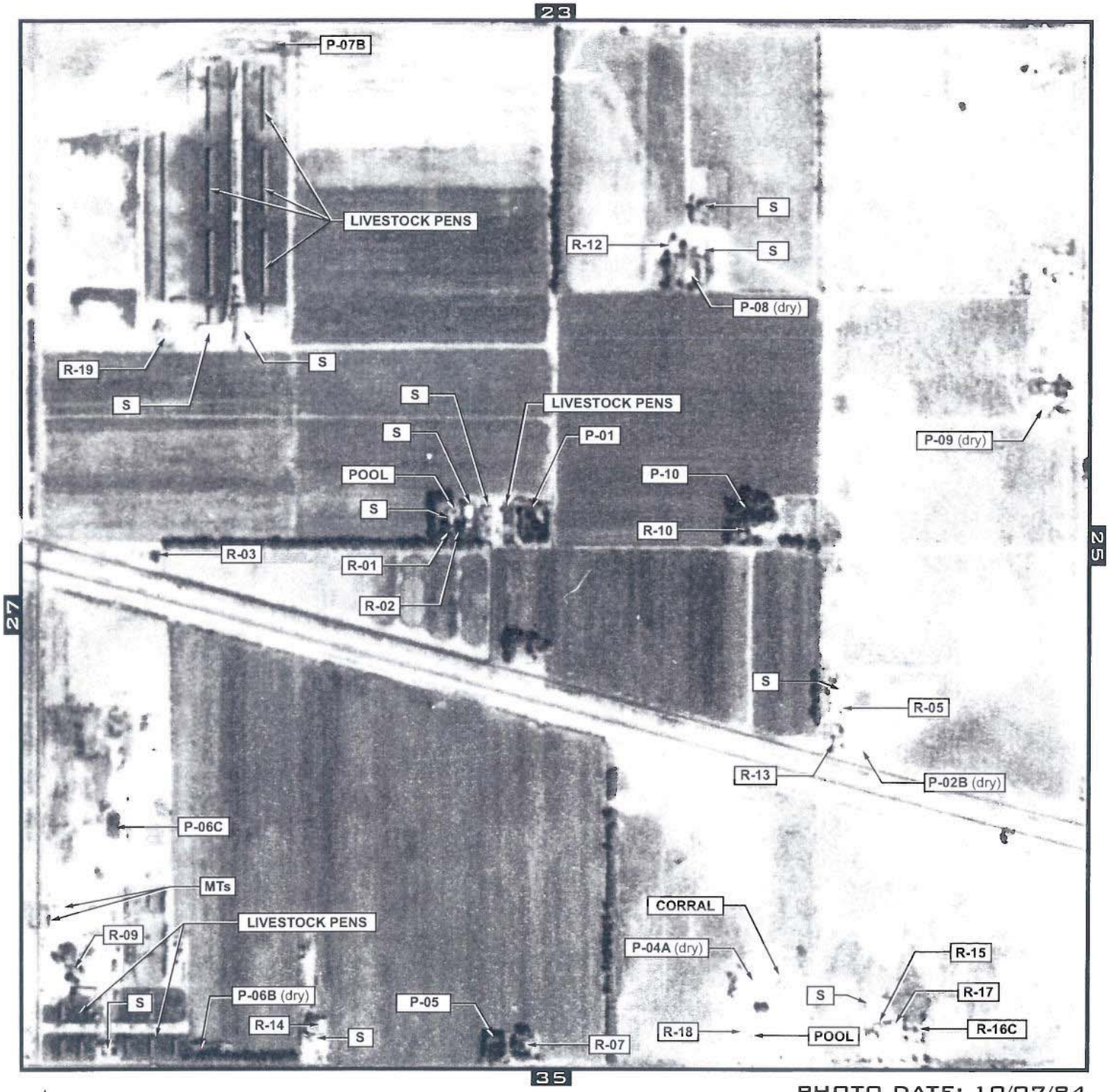



PHOTO DATE: 10/07/84
APPROXIMATE SCALE: 1"=720'
FRAME No.: 273-115

N

MBA000278

# SECTION 26
## -1988-

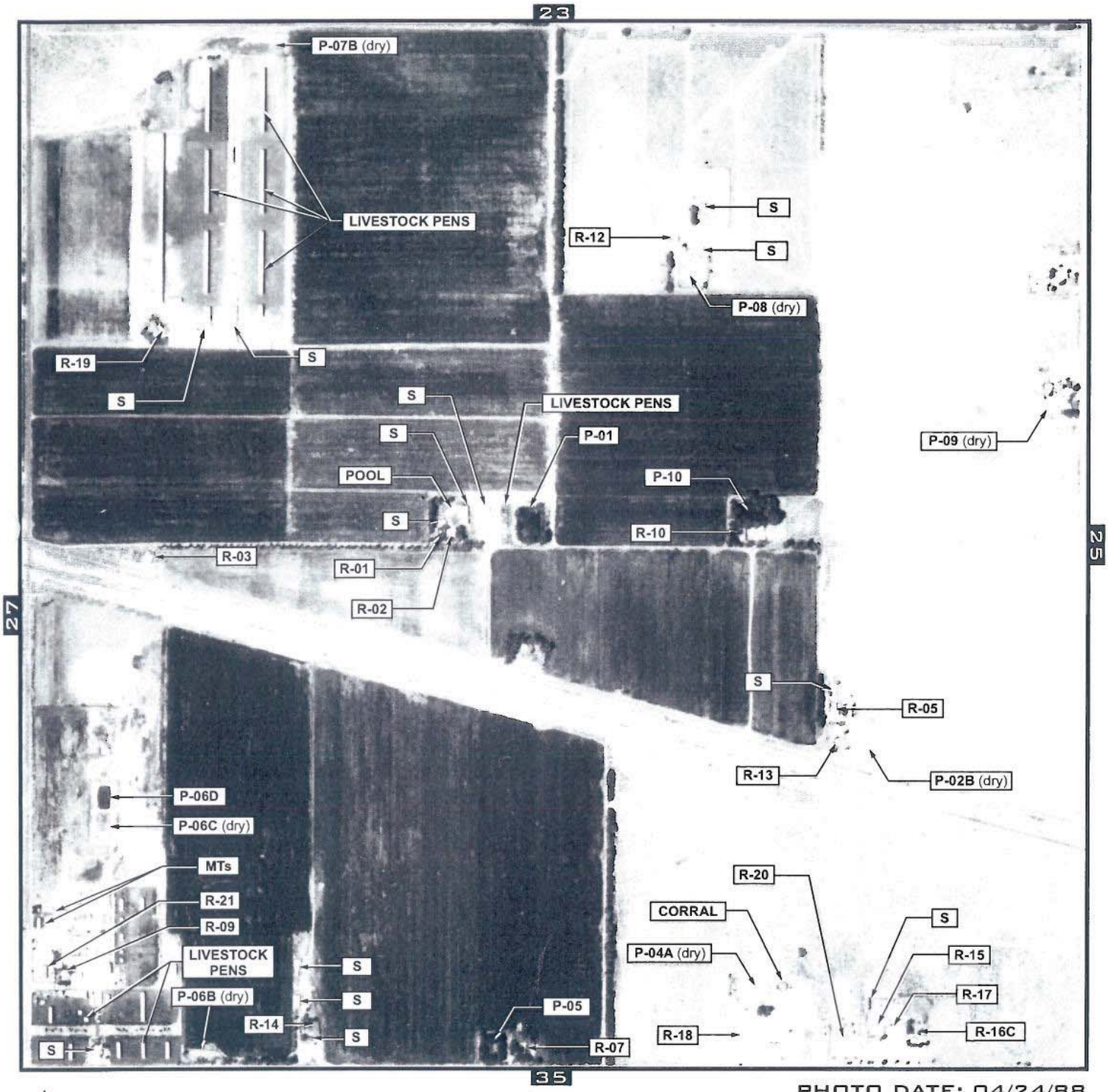



PHOTO DATE: 04/24/88
APPROXIMATE SCALE: 1"=720'
FRAME No.: 48

N

MBA000279

# SECTION 26
## -1989-

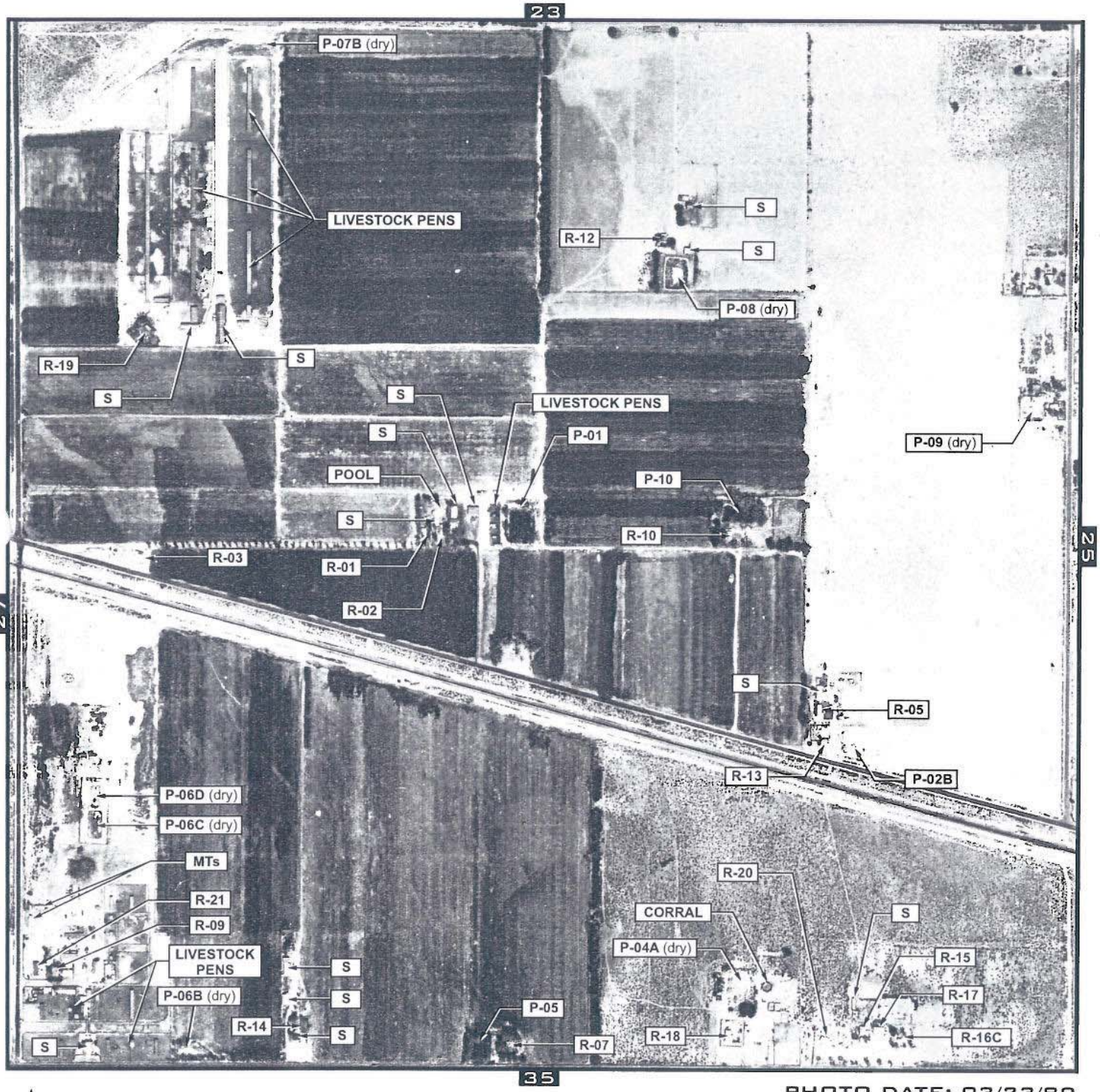



PHOTO DATE: 03/23/89
APPROXIMATE SCALE: 1"=720'
FRAME No.: 398

N

MBA000280

# Appendix B
# Drilling and Well Construction Records

# B-1
# Boring Logs

**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-14S*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 97.5 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2181.8 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 518,257.00 | **EASTING (CCS NAD 27 Z 5):** 2,250,968.00 | **DATE STARTED:** 5/18/2011 12:25:00 PM / **DATE COMPLETED:** 5/18/2011 5:05:00 PM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 87.0 (MW-14A) | **DRILLING EQUIPMENT:** 6" x 4" sonic tooling with 4" continuous core samples |
| **LOCATION:** | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 0 | | CC1 | 90 | SM | SILTY SAND (SM) - Yellowish brown (5YR 5/6), 50% silt, 50% sand, fine to medium grained, dry, loose, subangular to subrounded. | Hand auger to 5 ft bgs. Temporary conductor casing (7") to 20 ft bgs prior to drilling 6" hole. |
| | | CC2 | 90 | | | Continunous 4" core collection in 5-foot increments, divided into two 2.5' bags. Each bag tagged as a sample. |
| 5 | | CC3 | 90 | SP | POORLY GRADED SAND (SP) - Pale yellow (2.5Y 8/2), 90% fine to coarse sand, 10% silts/clay, dry, loose. | |
| | | CC4 | 90 | SM | SILTY SAND (SM) - Yellowish brown (5YR 5/6), 70% silt, fine to coarse, 30% very fine sand, dry, loose. | |
| 10 | | CC5 | 90 | | | |
| | | CC6 | 90 | | | 12.5 to 14 ft - 10% gravels present, subangular to subrounded. |
| 15 | | CC7 | 90 | | | |
| | | CC8 | 90 | SP | POORLY GRADED SAND (SP) - Pale brown (10YR 6/3), 95% very fine to coarse sand, 5% coarse silt, subangular to subrounded sand, dry, loose. | |
| 20 | | CC9 | 90 | SM | SILTY SAND (SM) - Pale brown (10YR 6/3), 70% silt fine to medium grained, 30% sand, very fine grained, dry, loose. | |
| | | CC10 | 90 | ML | SANDY SILT (ML) - Pinkish white (7.5YR 8/2), 80% silt, fine to coarse, 20% sand, very fine, dry, loose. | |
| 25 | | CC11 | 95 | SM | SILTY SAND (SM) - Pinkish white (7.5YR 8/2), 85% fine to coarse sand, 15% silt, dy, loose. | |
| | | CC12 | 95 | | | |
| 30 | | CC13 | 95 | | | |
| | | CC14 | 95 | SW | WELL GRADED SAND (SW) - Pinkish white (7.5YR 8/2), 100% sand fine to medium grained, little fines, loose, dry. | 32 to 32.5 ft - Thin layer of calcite (white salts) present. |
| | | | | | SANDY SILT (ML) - Pinkish white (7.5YR 8/2), 75% silt, fine to | |

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**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-14S*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 97.5 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2181.8 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 518,257.00 | **EASTING (CCS NAD 27 Z 5):** 2,250,968.00 | **DATE STARTED:** 5/18/2011 12:25:00 PM / **DATE COMPLETED:** 5/18/2011 5:05:00 PM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 87.0 (MW-14A) | **DRILLING EQUIPMENT:** 6" x 4" sonic tooling with 4" continuous core samples |
| **LOCATION:** | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 35 | | CC15 | 95 | ML | medium, 25% fine grained sand. | |
| | | CC16 | 95 | | | |
| 40 | | CC17 | 95 | SM | SILTY SAND (SM) - Pinkish white (7.5YR 8/2), 80% fine grained sand, 20% silt, fine grained, loose, dry. | |
| | | CC18 | 95 | | | 43 to 47 ft - Same fines increasing 25% silt, 5% clay, 70% fine sand. |
| 45 | | CC19 | 95 | SC | CLAYEY SAND (SC) - Light reddish brown (2.5YR 7/3), 35% fine sand, 35% silt, 30% clay, medium stiff to stiff, moist. | |
| | | CC20 | 95 | SP | POORLY GRADED SAND (SP) - Pinkish gray (7.5YR 7/2), 95% fine to medium grained sand, <5% silt, loose, dry. | |
| 50 | | CC21 | 95 | | | 50 to 53 ft - very fine to coarse grained sand. |
| | | CC22 | 95 | SM | SILTY SAND (SM) - Pinkish gray (7.5YR 7/2), 65% silt, 30% fine sand, 5% clay, loose, dry. | |
| 55 | | CC23 | 95 | | | |
| | | CC24 | 95 | | | |
| 60 | | CC25 | 95 | SP | POORLY GRADED SAND (SP) - Pinkish gray (7.5YR 7/2), 100% fine to very fine sand, loose, dry. | |
| | | CC26 | 95 | SM | SILTY SAND (SM) - 80% fine sand, 20% silt, loose, dry. | |
| 65 | | CC27 | 95 | CL | SILTY CLAY (CL) - Pale brown (10YR 6/3), 50% silt, 40%clay, 10% fine sand, medium stiff, low plasticity, moist. | |
| | | CC28 | 95 | SM | SILTY SAND (SM) - 55% silt, 40% sand (fine), 5% clay, loose, moist. | All samples moist beginning at 69 ft |

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| PROJECT NUMBER: | BORING NUMBER: |
|---|---|
| 422396.FP.02.FW | *MW-14S* |

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | **HOLE DEPTH (ft):** 97.5 | **DRILLING CONTRACTOR:** Boart Longyear | |
| **SURFACE ELEVATION:** 2181.8 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 518,257.00 | **EASTING (CCS NAD 27 Z 5):** 2,250,968.00 | **DATE STARTED:** 5/18/2011 12:25:00 PM | **DATE COMPLETED:** 5/18/2011 5:05:00 PM |
| **DRILLING METHOD:** Rotosonic | **WATER LEVEL (ft):** 87.0 (MW-14A) | **DRILLING EQUIPMENT:** 6" x 4" sonic tooling with 4" continuous core samples | |
| **LOCATION:** | | **LOGGED BY:** I. Wood | |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 70 | | CC29 | 95 | CL | SILTY CLAY (CL) - Pinkish gray (7.5YR 7/2), 65% clay, medium plasticity, 40% silt, 5% fine sand, stiff to very stiff, moist. | bgs. |
| | | CC30 | 95 | | | |
| 75 | | CC31 | 95 | | | Same white CaCO3 gravels whithin clay unit. 77.5 ft - Moisture content increasing, plasticity increasing |
| | | CC32 | 95 | SM | SILTY SAND (SM) - Pinkish gray (7.5YR 7/2), 75% fine to medium grained sand, 25% silt, loose, moist. | |
| 80 | | CC33 | 95 | | | |
| | | CC34 | 95 | CL | SILTY CLAY (CL) - Pinkish gray (7.5YR 7/2), 65% clay, medium plasticity, 40% silt, 5% fine sand, stiff to very stiff, moist. | 82.5 ft - Sand content decreases to 50% |
| 85 | | CC35 | 95 | SC | CLAYEY SAND (SC) - Light brown (7.5YR 6/3), 60% clay, 20% silt, 20% fine sand, medium stiff to stiff, moist. | |
| | | CC36 | 95 | SM | SILTY SAND (SM) - Light brown (7.5YR 6/3). 60% silt, 30% fine to medium grained sand, 10% clay, soft, loose, moist to wet. | |
| 90 | | CC37 | 95 | SP | POORLY GRADED SAND (SP), 95% fine to medium grained sand, <5% fines, loose, wet. | |
| | | CC38 | 95 | | | |
| 95 | | CC39 | 95 | SC | CLAYEY SAND (SC) - Brown, 30% clay, soft to medium stiff, medium plasticity, 40% silt, 30% sand, fine grained, moist to wet. | |

*Boring Terminated at 97.5 ft*

***ABBREVIATIONS***

*ft bgs = Feet below ground surface*

*cc = Continuous core run*

*CaCO3 = Carbonate, calcite*

*BR = Bedrock formation*

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**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-108S/D*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 125.0 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2174.9 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 519,899.15 | **EASTING (CCS NAD 27 Z 5):** 2,249,003.88 | **DATE STARTED:** 5/20/2011 10:50:00 AM / **DATE COMPLETED:** 5/23/2011 2:15:00 PM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 84.0 (MW-28A) | **DRILLING EQUIPMENT:** 10 x 6 sonic tooling with 4 continuous core samples |
| **LOCATION:** Center of Nelson Diaz Dairy | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 0 | | CC1 | 100 | SM | SILTY SAND (SM) - Brown (7.5YR 5/4), 70% silt, 15% fine grained sand, 10% clay, 5% gravels, subrounded, loose, dry. | Hand auger to 5 ft bgs. Temporary conductor casing to 20 ft bgs. |
| | | CC2 | 100 | | | Continunous 4 core collection in 5-foot increments, divided into two 2.5' bags. Each bag tagged as a sample. |
| 5 | | CC3 | 100 | | | |
| | | CC4 | 60 | | | 7.5 to 10 ft - Rock in core, poor recovery. |
| 10 | | CC5 | 100 | | | |
| | | CC6 | 80 | SW | WELL GRADED SAND (SW) - Pinkish white (7.5YR 7/2), 95% fine to coarse sand, <5% fines, loose, dry. | |
| 15 | | CC7 | 100 | | | |
| | | CC8 | 80 | SP | POORLY GRADED SAND (SP) - Sand grades to fine to medium grained, <5% fines. | |
| 20 | | CC9 | 95 | SM | SILTY SAND (SM) - Gray (10YR 6/1), 65% fine to very fine sand, 25% silt, 10% clay, medium dense, loose, dry. | |
| | | CC10 | 100 | | | |
| 25 | | CC11 | 90 | SP | POORLY GRADED SAND (SW) - Tan, 95% very fine to medium grained sand, <5% fines, loose, dry. | |
| | | CC12 | 100 | SM | SILTY SAND (SM) - Brown, 70% fine to very fine grained sand, 25% silt, 5% clay, loose, dry. | |
| 30 | | CC13 | 100 | CL | SILTY CLAY (CL) - Brown, 75% silt, 20% clay, 5% very fine sand, loose, dry. | |
| | | CC14 | 100 | SP | POORLY GRADED SAND (SP) - Light brown, 95% very fine to fine sand, <5% fines, loose, dry. | |
| | | | | | SILTY CLAY (CL) - brown, 60% silt, 25% clay, 15% fine to very fine | |

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**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-108S/D*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 125.0 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2174.9 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 519,899.15 | **EASTING (CCS NAD 27 Z 5):** 2,249,003.88 | **DATE STARTED:** 5/20/2011 10:50:00 AM / **DATE COMPLETED:** 5/23/2011 2:15:00 PM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 84.0 (MW-28A) | **DRILLING EQUIPMENT:** 10 x 6 sonic tooling with 4 continuous core samples |
| **LOCATION:** Center of Nelson Diaz Dairy | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 35 | | CC15 | 100 | CL | sand, soft/loose, dry. | |
| | | CC16 | 100 | | | |
| | | | | SM/SC | SANDY SILT/CLAYEY SAND (SM/SC) - 50% clay, medium stiff, low plasticity, 30% silt, 20% fine to very fine sand, dry. | |
| 40 | | CC17 | 100 | SP | POORLY GRADED SAND (SP) - Light brown, 95% very fine to fine sand, <5% fines, loose, dry. | |
| | | | | CL | SILTY CLAY (CL) - Brown, 50% silt, 40% clay, 10% fine grained sand, soft, medium stiff, dry. | |
| | | CC18 | 100 | | | |
| 45 | | CC19 | 100 | SM | SILTY SAND (SM) - Brown with tan sand, 70% fine sand, 25% silt, <5% clay, loose, dry. | |
| | | CC20 | 100 | CL | LEAN CLAY (CL) - Brown with white CaCO3, gravels within, <5% silts and fine sands. | |
| 50 | | CC21 | 100 | SC | CLAYEY SAND (SC) - Brown, 30% fine to very fine sand, 30% silt, 40% clay, loose, dry. | |
| | | CC22 | 100 | SP | POORLY GRADED SAND (SP) - Pinkish white, 95% fine to very fine sand, 30% silt, 40% clay, loose, dry. | |
| 55 | | CC23 | 100 | SM | SILTY SAND (SM) - Light brown, with tan/white sand, 60% fine grained, 35% silt, 5% clay, loose, dry. | |
| | | CC24 | 100 | CL | LEAN CLAY (CL) - Brown, 95% clay, <5% fines, soft to medium stiff, low to medium plasticity, slightly moist. | |
| 60 | | CC25 | 100 | SM | SILTY SAND (SM) - light gray (10YR 7/1), 50% fine grained sand, 45% silt, <5% clay, loose, dry. | |
| | | CC26 | 100 | | | |
| 65 | | | | SW | WELL GRADED SAND (SW) - fine to coarse grained, loose, dry. | |
| | | CC27 | 100 | | LEAN CLAY (CL) - Brown, stiff to very stiff, massive, medium plasticity, moist. | |
| | | CC28 | 100 | | | |

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**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-108S/D*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 125.0 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2174.9 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 519,899.15 | **EASTING (CCS NAD 27 Z 5):** 2,249,003.88 | **DATE STARTED:** 5/20/2011 10:50:00 AM / **DATE COMPLETED:** 5/23/2011 2:15:00 PM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 84.0 (MW-28A) | **DRILLING EQUIPMENT:** 10 x 6 sonic tooling with 4 continuous core samples |
| **LOCATION:** Center of Nelson Diaz Dairy | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 70 | | CC29 | 100 | CL | | |
| | | CC30 | 100 | | | |
| 75 | | CC31 | 100 | | | |
| | | CC32 | 100 | | | |
| 80 | | CC33 | 100 | SC | CLAYEY SAND (SC) - Light brownish gray (10YR 6/2), 40% clay, medium plasticity, 30% silt, 30% fine sand, soft/loose, moist. | |
| | | CC34 | 100 | SM | SILTY SAND (SM) - Light brownish gray, 60% fine to very fine grained sand, 30% silt, 10% clay, loose, dry. | |
| 85 | | | | CL | LEAN CLAY (CL) - Reddish brown (5YR 4/4), 90% clay, stiff to very stiff, medium plasticity, 10% fine sand and silt. | Note: Core at around 84 ft bgs and below would be saturated but sample method allows core to drain during retrieval. |
| | | CC35 | 100 | SC | CLAYEY SAND (SC) - Light brownish gray (10YR 6/2), 70% clay, medium stiff to stiff, 30% fine to very fine sand, moist-wet, sparkly sand sized grains present throughout (pyrite). | |
| | | CC36 | 100 | | | |
| 90 | | CC37 | 100 | SP/SC | POORLY GRADED SAND (SP)/CLAYEY SAND (SC) - Light brownish gray (10YR 2/2), 75% very fine to fine grained sand, 20% clay, <5% silt, soft/loose, wet. | |
| | | CC38 | 100 | SW | WELL GRADED SAND (SW) - Light gray (10YR 7/2), 95% very fine to coarse grained sand, subangular to subrounded, <5% fines, loose, moist. | |
| 95 | | CC39 | 100 | | | |
| | | CC40 | 100 | CL | LEAN CLAY (CL) - brown, 05% clay, medium stiff, medium plasticity, <5% fine sand, moist. | |
| 100 | | | | SM/SC | SANDY SILT/CLAYEY SAND (SM/SC) - Pinkish grey (7.5YR 6/2), 70% 20% fine to very fine sand, 15% silt, 15% clay, loose, moist. | |
| | | CC41 | 100 | CL | LEAN CLAY (CL) - Grayish brown (10YR 5/2), medium stiff to stiff, low to medium plasticity, <5% silt and sand. | |
| | | CC42 | 100 | | | |

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**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-108S/D*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 125.0 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2174.9 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 519,899.15 | **EASTING (CCS NAD 27 Z 5):** 2,249,003.88 | **DATE STARTED:** 5/20/2011 10:50:00 AM / **DATE COMPLETED:** 5/23/2011 2:15:00 PM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 84.0 (MW-28A) | **DRILLING EQUIPMENT:** 10 x 6 sonic tooling with 4 continuous core samples |
| **LOCATION:** Center of Nelson Diaz Dairy | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION: SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE. | COMMENTS: DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES. |
|---|---|---|---|---|---|---|
| 105 | | CC43 | 100 | SW | WELL GRADED SAND (SW) - Pale brown (10YR 6/3), 95% fine to coarse grained sand, subangular to subrounded, <5% fines, loose, wet. | |
| | | CC44 | 100 | | | |
| 110 | | CC45 | 100 | | | |
| | | CC46 | 100 | | | |
| 115 | | CC47 | 100 | | | |
| | | CC48 | 100 | CH | FAT CLAY (CH) - Greenish blue (Gley 2 4/10 GB), Blue Clay, moderate to high plasticity, very stiff, moist. | |
| 120 | | CC49 | 100 | | | |
| | | CC50 | 100 | | | |
| 125 | | | | | *Boring Terminated at 125 ft* | |

***ABBREVIATIONS***

*ft bgs = Feet below ground surface*

*cc = Continuous core run*

*CaCO3 = Carbonate, calcite*

*BR = Bedrock formation*

CH2MHILL

**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-109*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 112.5 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2174.9 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 520,936.35 | **EASTING (CCS NAD 27 Z 5):** 2,248,764.72 | **DATE STARTED:** 5/25/2011 1:00:00 PM / **DATE COMPLETED:** 5/27/2011 10:20:00 AM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 84.6 (MW-28A) | **DRILLING EQUIPMENT:** 10" x 6" sonic tooling with 4 continuous core samples |
| **LOCATION:** Mountain View and Santa Fe Ave. | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 0 | | CC1 | 60 | SM | SILTY SAND (SM) - Yellowish brown (5YR 5/6), 70% silt, 25% fine to medium grained sand, <5% clay, loose, loose, dry | Hand auger to 5 ft bgs. Temporary conductor casing (12) was set for well installation, then removed. |
| | | CC2 | 90 | | | Continunous 4 core collection in 5-foot increments, divided into two 2.5' bags. Each bag logged as a sample. |
| 5 | | CC3 | 90 | | | |
| | | CC4 | 90 | | | |
| 10 | | CC5 | 90 | | | |
| | | CC6 | 90 | | | |
| 15 | | CC7 | 90 | | | |
| | | CC8 | 90 | | | |
| 20 | | CC9 | 100 | | | |
| | | CC10 | 100 | | | |
| 25 | | CC11 | 100 | CL | SILTY CLAY (CL) - Light olive brown (2.5Y 6/3), 60% silt, 30% clay, 10% fine sand, soft to medium stiff, dry. | |
| | | CC12 | 100 | SP | POORLY GRADED SAND (SP) - Plae yellow, (5Y 8/3), 90% very fine to medium grained sand, <10% fines, loose, dry. | |
| 30 | | CC13 | 100 | SM | SILTY SAND (SM) - Light brownish gray, (2.5Y 6/2), 70% silt, 10% fine sand, !0% clay, loose, dry. | |
| | | CC14 | 100 | | SILTY CLAY (CL) - Light olive brown (2.5Y 4/3), 50% silt, 40% clay, | |

CH2MHILL

**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-109*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 112.5 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2174.9 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 520,936.35 | **EASTING (CCS NAD 27 Z 5):** 2,248,764.72 | **DATE STARTED:** 5/25/2011 1:00:00 PM / **DATE COMPLETED:** 5/26/2011 10:20:00 AM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 84.6 (MW-28A) | **DRILLING EQUIPMENT:** 10 x 6 sonic tooling with 4 continuous core samples |
| **LOCATION:** Mountain View and Santa Fe Ave. | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 35 | | CC15 | 100 | CL | 10% very fine sand, soft to medium stiff, medium density, dry. | |
| | | CC16 | 100 | SM | SILTY SAND (SM) - Light olive brown (2.5YR 6/3), 75% fine sand, 20% silt, <5% clay, loose, dry. | |
| | | | | CL | SILTY CLAY (CL) - Dark brown, 60% clay, 30% silt, 10% fine grained sand, dense, stiff, dry. | |
| 40 | | CC17 | 100 | SM/CL | SILTY SAND/SANDY CLAY (SM/CL) - Light olive brown, 40% fine sand, 35% silt, 25% clay, loose, dry. | |
| | | CC18 | 100 | | | |
| 45 | | CC19 | 75 | | | |
| | | CC20 | 100 | SM | SILTY SAND (SM) - Light olive brown, 80% very fine sand, 5% silt, <5% clay, loose, dry. | |
| 50 | | CC21 | 100 | CL | SILTY CLAY (CL) - Grayish brown (10YR 5/2). 55% clay, 40% silt, <5% fine sand, soft to medium stiff, dry. | |
| | | CC22 | 100 | | | |
| 55 | | CC23 | 100 | SM | SILTY SAND (SM) - Brown, 50% fine sand, %0% silt, loose, dry. | |
| | | CC24 | 100 | CL | LEAN CLAY (CL) - Brown, 75% clay, low plasticity, 20% silt, <5% fine sand, stiff, dry. | |
| 60 | | CC25 | 100 | | | |
| | | CC26 | 100 | CL/SM | SILTY CLAY/SILTY SAND (CL/SM) - Light brown, 60% silt, 25% clay, 15% fine sand, loose, slight moist. | |
| 65 | | CC27 | 100 | SM | SILTY SAND (SM) - Tan, 55% fine to medium grained sand, <5% clay, loose, dry. | |
| | | CC28 | 100 | | SILTY CLAY (CL) - Gray (7.5YR 5/1), 80% clay, 15% silt, <5% sand and white gravels (calcite), stiff to very stiff, medium plasticity, slight | |

CH2MHILL

**PROJECT NUMBER:** 422396.FP.02.FW

**BORING NUMBER:** *MW-109*

# SOIL BORING LOG

| | | | |
|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 112.5 | **DRILLING CONTRACTOR:** Boart Longyear |
| **SURFACE ELEVATION:** 2174.9 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 520,936.35 | **EASTING (CCS NAD 27 Z 5):** 2,248,764.72 | **DATE STARTED:** 5/25/2011 1:00:00 PM / **DATE COMPLETED:** 5/26/2011 10:20:00 AM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 84.6 (MW-28A) | **DRILLING EQUIPMENT:** 10 x 6 sonic tooling with 4 continuous core samples |
| **LOCATION:** Mountain View and Santa Fe Ave. | | | **LOGGED BY:** I. Wood |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 70 | | CC29 | 100 | CL | moist. | |
| | | CC30 | 100 | | | |
| 75 | | CC31 | 100 | | | Becoming moist at 75.5 ft bgs |
| | | CC32 | 100 | SM | SILTY SAND (SM) - Tan, 65% fine to medium grained sand, 25% silt, <10% clay, loose, moist. | |
| 80 | | CC33 | 100 | SW | WELL GRADED SAND (SW) - Tan, 95% fine to coarse grained sand, <5% fines, subangular to subrounded sand, loose, moist. | |
| | | CC34 | 100 | CL | LEAN CLAY (CL) - Gray, 90% clay, medium plasticity, 5% silt, 5% sand, stiff to very stiff, slightly moist. | |
| | | | | SW | WELL GRADED SAND (SW) - Tan, 95% fine to coarse grained sand, <5% fines, subangular to subrounded sand, loose, moist. | |
| 85 | | CC35 | 100 | CL | LEAN CLAY (CL) - Gray, 90% clay, medium plasticity, 5% silt, 5% sand, stiff to very stiff, slightly moist. | First saturated core evidence at 84.5 ft bgs. Core below 84.5 ft looks moist, sample method lets water drain from core before opening at surface. Cores below 84 feet are likely wet in situ. |
| | | CC36 | 100 | SP | POORLY GRADED SAND (SP) - gray, 90% very fine to fine sand, <10% fines, loose, moist. | |
| 90 | | CC37 | 100 | SM | SILTY SAND (SM) - Gray, 70% very fine to fine sand, poorly graded, 25% silt, 55% clay, loose, moist. | |
| | | CC38 | 100 | SP | POORLY GRADED SAND (SP) - gray, 90% very fine to fine sand, <10% fines, loose, moist. | |
| 95 | | CC39 | 100 | SM | SILTY SAND (SM) - Gray, 70% very fine to fine sand, poorly graded, 25% silt, 55% clay, loose, moist. | |
| | | CC40 | 100 | SW | WELL GRADED SAND (SW) - Tan, 95% fine to coarse grained sand, <5% fines, subangular to subrounded sand, loose, moist. | |
| 100 | | CC41 | 100 | SP | POORLY GRADED SAND (SP) - Light gray, 95% fine to medium grained sand, <5% fines, loose, moist. | |
| | | CC42 | 100 | | | |

CH2MHILL

| PROJECT NUMBER: | BORING NUMBER: |
|---|---|
| 422396.FP.02.FW | *MW-109* |

# SOIL BORING LOG

| | | | | |
|---|---|---|---|---|
| **PROJECT NAME:** Hinkley Nitrate Investigation | | **HOLE DEPTH (ft):** 112.5 | **DRILLING CONTRACTOR:** Boart Longyear | |
| **SURFACE ELEVATION:** 2174.9 ft. MSL | **NORTHING (CCS NAD 27 Z 5):** 520,936.35 | **EASTING (CCS NAD 27 Z 5):** 2,248,764.72 | **DATE STARTED:** 5/25/2011 1:00:00 PM | **DATE COMPLETED:** 5/26/2011 10:20:00 AM |
| **DRILLING METHOD:** Rotosonic | | **WATER LEVEL (ft):** 84.6 (MW-28A) | **DRILLING EQUIPMENT:** 10 x 6 sonic tooling with 4 continuous core samples | |
| **LOCATION:** Mountain View and Santa Fe Ave. | | | **LOGGED BY:** I. Wood | |

| DEPTH BGS (feet) | SAMPLE INTERVAL | SAMPLE TYPE/ NUMBER | SAMPLE RECOVERY (%) | USCS CODE | SOIL DESCRIPTION (SOIL NAME, USCS SYMBOL, COLOR, PERCENT COMPOSITION, GRADING, GRAIN SHAPE, MINERALOGY, DENSITY/CONSISTENCY, STRUCTURE, MOISTURE.) | COMMENTS (DRILLING OBSERVATIONS AND OPERATIONS, DAILY START AND END TIMES , DRILL RATE, REFUSALS, SAMPLING AND TESTING NOTES.) |
|---|---|---|---|---|---|---|
| 105 | | CC43 | 100 | SW | WELL GRADED SAND (SW) - Multicolored grains, >5% fine to coarse grained sand, subangular to subrounded, loose, moist. | |
| | | CC44 | 100 | SC | CLAYEY SAND (SC) - Gray, 85%clay, 15% fine sand, fragments of black weathered bedroch present, top of blue clay, soft to very soft, moist to wet. | |
| | | | | CL/SC | CLAY/CLAYEY SAND (CL/SC) - White and greenish blue clay, fragments of bedrock are sand size, angular, within unit, soft to medium stiff, moist to wet. | |
| 110 | | CC45 | 100 | CH | FAT CLAY (CH) - Blue clay unit, greenish blue, medium plasticity, medium stiff to stiff, moist to wet. | |
| | | | | BR | BEDROCK - Black, volcanic looking, shattered into angular coarse grain sized fragments from drilling, very hard drilling encountered at 112.5 ft bgs | |

*Boring Terminated at 112.5 ft*

***ABBREVIATIONS***

*ft bgs = Feet below ground surface*

*cc = Continuous core run*

*CaCO3 = Carbonate, calcite*

*BR = Bedrock formation*

CH2MHILL

# B-2
# Well Completion

| PROJECT NUMBER | WELL NUMBER | |
|---|---|---|
| 422396.FP.02.FW | MW-14S | 1 OF 1 |

# SINGLE ABOVEGROUND WELL COMPLETION DIAGRAM

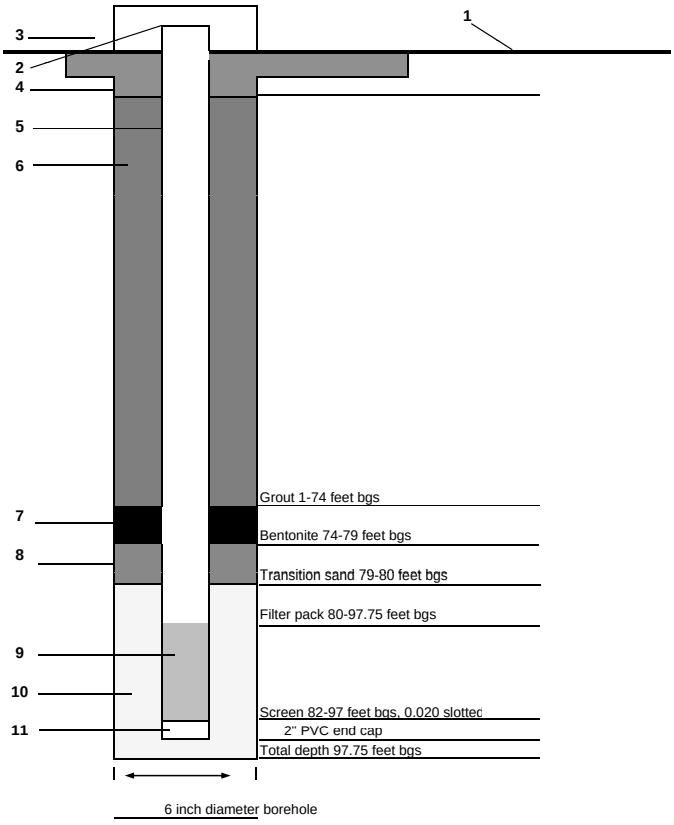
PROJECT : Hinkley Nitrate Investigation — LOCATION : Hinkley, Hwy. 58 and Fairview Rd.

DRILLING CONTRACTOR : Boart Longyear

DRILLING METHOD AND EQUIPMENT USED : Rotosonic, 6-inch borehole with 4-inch continuous sampling

NORTHING: 2249410 — EASTING: 520713

WATER LEVELS: 85.95 — START : ########### — END : 5/16/2011 15:30 — LOGGER : I. Wood




*NOT TO SCALE*

| | |
|---|---|
| 1- Ground elevation at well | 2173 |
| 2- Top of casing elevation | Not Measured |
| 3- Wellhead protection cover type: | flushmount well cover, 3 x 3 foot concrete pad |
| Concrete pad dimensions: | |
| 4- Diameter of surface casing: | 6-inch |
| Surface casing type: | |
| 5- Diameter of well casing: | 2-inch |
| Well casing type: | PVC |
| 6- Grout | |
| a) Grout mix used | 6 bags portland cement, 21 gal. water, 15 lbs bentonite |
| b) Method of placement | positive pressure tremmie pipe |
| c) Qty. of surface casing grout | |
| d) Qty. of well casing grout | 5 batches of grout mix to seal well to 1 ft bgs. |
| 7- Type of seal | bentonite chips, medium hole plug |
| a) Quantity used: | 1.5 50lb bags |
| 8- Transition sand: | 30 |
| a) Quantity used: | 0.2 bags (100 lbs) |
| 9- Type/slot size of screen: | 0.02 |
| | PVC |
| 10- Type of filter pack: | #2/12 Monterey silica sand |
| a) Quantity used: | (4) 50 pounds sacks |
| 11- PVC end cap: | 4" PVC end cap |
| Centralizers: | |
| a) Type: | stainless steel worm gear |
| b) Depths (feet, bgs): | 22, 52, 82, 97 |
| Development: | |
| a) Method: | Surge, swab, bail, pump |
| b) Duration: | 4 hours |
| c) Purge Volume: | 110 gallons |

Comments

| DATE: | PROJECT NUMBER | WELL NUMBER | |
|---|---|---|---|
| | 422396.FP.02.FW | MW-108S/D (nested well) | 1 OF 1 |

# BELOW-GROUND: DUAL NESTED WELL COMPLETION DIAGRAM

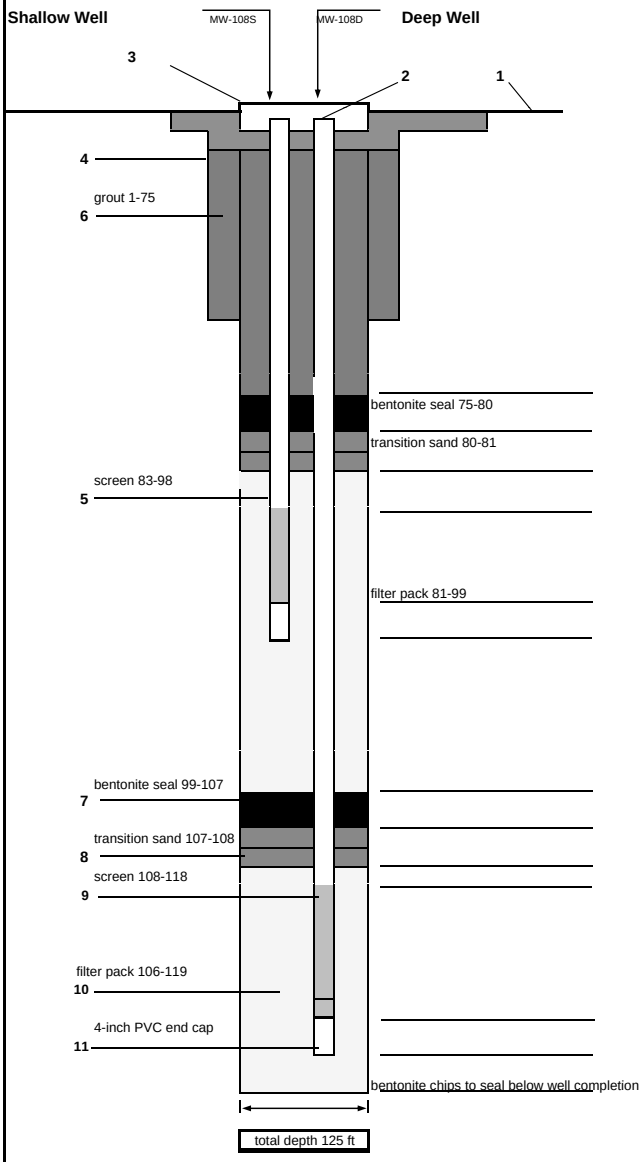
PROJECT : I Hinkley Nitrate Investigation — LOCATION : Center of former Nelson Diaz-Dairy off of Mountain View Ave.

DRILLING CONTRACTOR : Boart Longyear

DRILLING METHOD AND EQUIPMENT USED : Rotosonic with 10-inch borehole and 6 inch continuous core sampling.

NORTHING: not measured — EASTING: not measured

WATER LEVELS: MW-108S = 84.25, MW-108D = 84.31 — START 5/24/2011 9:00 — END : 5/24/11 18:00 — LOGGER : I.Wood




*NOT TO SCALE*

| | |
|---|---|
| **1-** Ground elevation at well | 2175 |
| **2-** Top of casing elevation | not measured |
| **3-** Wellhead protection cover type: | flushmount well cover |
| Concrete pad dimensions: | 3 by 3 foot box |
| **4-** Diameter of surface Casing: | 10-inch |
| Surface casing type: | PVC |
| **5-** Diameter of Well Casing: | 2-inch |
| Well casing type: | PVC |
| **6-** Grout | |
| a) Grout mix used | 6 bags portland cement, 21 gal. water, 15 lbs bentonite |
| b) Method of placement | positive pressure tremmie pipe |
| c) Qty of surface casing grout | |
| d) Qty of well casing grout | 10 batches |
| **7-** Type of seal | bentonite chips, medium hole plug |
| a) Quantity used: | (4) 50lb bags |
| **8-** Transition sand: | 030 |
| a) Quantity used: | (1) bag (100 lbs) |
| **9-** Type of screen: | PVC |
| Slot size of screen: | 0.02 |
| **10-** Type of filter pack: | #2/12 Monterey silica sand |
| a) Quantity used: | (10) 50lb bags |
| **11-** PVC end cap or Sump: | 4" PVC end cap |
| Centralizers: | |
| a) Type: | stainless steel worm gear |
| b) Depths (feet, bgs): | 19, 49, 77, 83, 88,107, 118 |
| Development: | |
| a) Method: | swab, surge, pump |
| b) Duration: | 3.5 hrs MW-108D, 2.5 hrs MW-108S, to less than 4 NTUs |
| c) Purge Volume: | 100 gallons MW-108D, 62 gallons MW-108S |

Comments Total borehole depth was 125 feet, bottom 7 feet were 'blue clay', borehole was back filled to 119 feet with bentonite prior to building well.

| PROJECT NUMBER | WELL NUMBER | |
|---|---|---|
| 422396.FP.02.FW | MW-109 | 1 OF 1 |

# SINGLE ABOVEGROUND WELL COMPLETION DIAGRAM

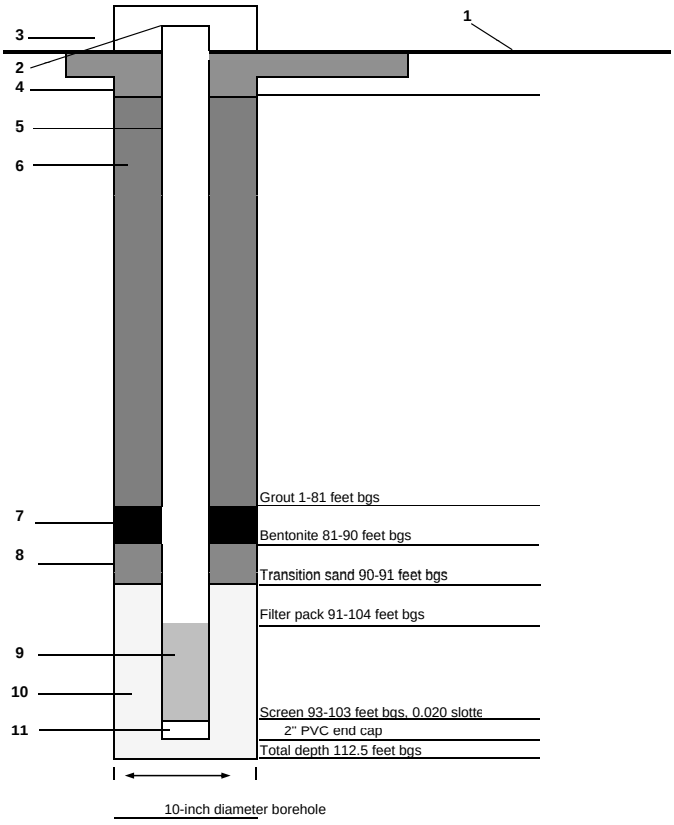
PROJECT : Hinkley Nitrate Investigation LOCATION : Hinkley, northwest corner of former Nelson-Diaz Dairy, Mountain View Ave. and Santa Fe Ave.

DRILLING CONTRACTOR : Boart Longyear

DRILLING METHOD AND EQUIPMENT USED : Rotosonic, 10-inch borehole with 6-inch continuous sampling

NORTHING: not measured EASTING: not measured

WATER LEVELS: 83.64 START : 5/26/2011 15:00:00 PM END : 5/27/2011 11:00 LOGGER : I. Wood




*NOT TO SCALE*

| | |
|---|---|
| 1- Ground elevation at well | 2174.7 |
| 2- Top of casing elevation | Not Measured |
| 3- Wellhead protection cover type: | flushmount well cover, 3 x 3 foot concrete pad |
| Concrete pad dimensions: | |
| 4- Diameter of surface casing: | 10-inch |
| Surface casing type: | |
| 5- Diameter of well casing: | 2-inch |
| Well casing type: | PVC |
| 6- Grout | |
| a) Grout mix used | 6 bags portland cement, 21 gal. water, 15 lbs bentonite |
| b) Method of placement | positive pressure tremmie pipe |
| c) Qty. of surface casing grout | |
| d) Qty. of well casing grout | 12 batches of grout mix to seal well to 1 ft bgs. |
| 7- Type of seal | bentonite chips, medium hole plug |
| a) Quantity used: | (10) 50lb bags |
| 8- Transition sand: | 030 |
| a) Quantity used: | (1) bag (100 lbs) |
| 9- Type/slot size of screen: | 0.02 |
| | PVC |
| 10- Type of filter pack: | #2/12 Monterey silica sand |
| a) Quantity used: | (20) 50 pounds sacks |
| 11- PVC end cap: | 4" PVC end cap |
| Centralizers: | |
| a) Type: | stainless steel worm gear |
| b) Depths (feet, bgs): | 15, 32, 62, 92, 103 |
| Development: | |
| a) Method: | Surge, swab, bail, pump |
| b) Duration: | 4 hours |
| c) Purge Volume: | 110 gallons |

Comments Nested well planned however saturated thickness of aquifer and lithology indicated that single completion was only option. After reaching total depth, borehole was backfilled to 104 feet with bentonite chips prior to building well.

# B-3
# DWR Completion Reports

File Original with DWR

State of California

# Well Completion Report

*Refer to Instruction Pamphlet*

No. e0132544

Page 1 of 1

Owner's Well Number MW-14S

Date Work Began 5/18/2011 Date Work Ended 5/19/2011

Local Permit Agency San Bernardino County Department of Health Services

Permit Number 2011050277 Permit Date 5/9/11

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N Latitude W Longitude

APN/TRS/Other

## Geologic Log

Orientation ⦿ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Sonic Drilling Fluid Fresh Water

| Depth from Surface Feet | to Feet | Description Describe material, grain size, color, etc |
|---|---|---|
| 0 | 5 | SILTY SAND |
| 5 | 6 | POORLY GRADED SAND |
| 6 | 17.5 | SILTY SAND |
| 17.5 | 20 | POORLY GRADED SAND |
| 20 | 23 | SILTY SAND |
| 23 | 25 | SANDY SILT |
| 25 | 32.5 | SILTY SAND |
| 32.5 | 34 | WELL GRADED SAND |
| 34 | 40 | SANDY SILT |
| 40 | 46 | SILTY SAND |
| 46 | 49 | CLAYEY SAND |
| 49 | 53.5 | POORLY GRADED SAND |
| 52.5 | 60 | SILTY SAND |
| 60 | 61.5 | POORLY GRADED SAND |
| 61.5 | 64 | SILTY SAND |
| 64 | 67 | SILTY CLAY |
| 67 | 70 | SILTY SAND |
| 70 | 78.5 | SILTY CLAY |
| 78.5 | 83.5 | SILTY SAND |
| 83.5 | 86 | SILTY CLAY |
| 86 | 87 | CLAYEY SAND |
| 87 | 89 | SILTY SAND |
| 89 | 95 | POORLY GRADED SAND |
| 95 | 97.75 | CLAYEY SAND |

Total Depth of Boring 97.75 Feet

Total Depth of Completed Well 97.2 Feet

## Well Owner

Name Pacific Gas and Electric Company

Mailing Address 35863 Fairview Rd.

City Hinkley State CA Zip 92347

## Well Location

Address South of Hwy 58 at Fairview Ave.

City Hinkley County San Bernardino

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

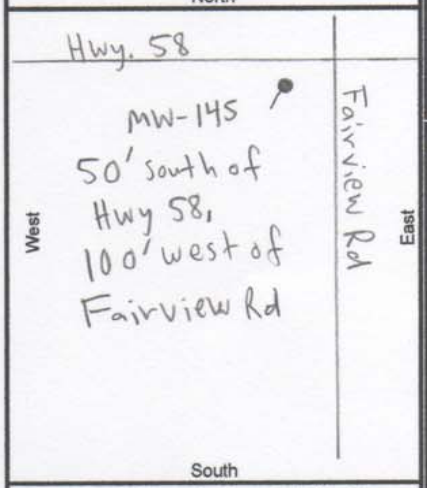
Datum Decimal Lat. Decimal Long.

APN Book 0494 Page 251 Parcel 35

Township 10N Range 3W Section 35

## Location Sketch

(Sketch must be drawn by hand after form is printed.)




Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

## Activity

⦿ New Well
○ Modification/Repair
○ Deepen
○ Other
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

## Planned Uses

○ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
⦿ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

## Water Level and Yield of Completed Well

Depth to first water 85.95 (Feet below surface)

Depth to Static Water Level 85.95 (Feet) Date Measured 6/2/11

Estimated Yield * 5 (GPM) Test Type Constant Rate

Test Length 1.5 (Hours) Total Drawdown 0.45 (Feet)

*May not be representative of a well's long term yield.

## Casings

| Depth from Surface Feet | to Feet | Borehole Diameter (Inches) | Type | Material | Wall Thickness (Inches) | Outside Diameter (Inches) | Screen Type | Slot Size if Any (Inches) |
|---|---|---|---|---|---|---|---|---|
| 1 | 82 | 6 | Blank | PVC Sch. 40 | 0.154 | 2.375 | | |
| 82 | 97 | 6 | Screen | PVC Sch. 40 | 0.154 | 2.375 | Milled Slots | 0.020 |

## Annular Material

| Depth from Surface Feet | to Feet | Fill | Description |
|---|---|---|---|
| 1 | 74 | Cement | GROUT |
| 74 | 79 | Bentonite | |
| 79 | 80 | Filter Pack | 030 FINE SAND |
| 80 | 97.75 | Filter Pack | 2/12 SAND |

## Attachments

☑ Geologic Log
☑ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

## Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name (Person, Firm or Corporation)

Address City State Zip

Signed (C-57 Licensed Water Well Contractor) Date Signed C-57 License Number



IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

# Well Completion Report

*Refer to Instruction Pamphlet*

No. e0132584

Page 1 of 1

Owner's Well Number MW-108D (aka N-1D nest)

Date Work Began 5/20/11 Date Work Ended 5/23/11

Local Permit Agency San Bernardino County Department of Public Health

Permit Number 2011050278 Permit Date 5/9/11

DWR Use Only – Do Not Fill In

State Well Number/Site Number

Latitude N Longitude W

APN/TRS/Other

## Geologic Log

Orientation ⦿ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Sonic Drilling Fluid Fresh Water

| Depth from Surface Feet | to Feet | Description (Describe material, grain size, color, etc) |
|---|---|---|
| 0 | 12 | SILTY SAND |
| 12 | 16.5 | WELL GRADED SAND |
| 16.5 | 20 | POORLY GRADED SAND |
| 20 | 25.5 | SILTY SAND |
| 25.5 | 27.5 | POORLY GRADED SAND |
| 27.5 | 29.5 | SILTY SAND |
| 29.5 | 32 | SILTY CLAY |
| 32 | 34 | POORLY GRADED SAND |
| 34 | 39 | SILTY CLAY |
| 39 | 40.5 | SANDY SILT/CLAYEY SAND |
| 40.5 | 41.5 | POORLY GRADED SAND |
| 41.5 | 45.5 | SILTY CLAY |
| 45.5 | 48.5 | SILTY SAND |
| 48.5 | 50.5 | LEAN CLAY |
| 50.5 | 53 | CLAYEY SAND |
| 53 | 54.5 | POORLY GRADED SAND |
| 54.5 | 57 | SILTY SAND |
| 57 | 59 | LEAN CLAY |
| 59 | 64.5 | SILTY SAND |
| 64.5 | 65 | WELL GRADED SAND |
| 65 | 81 | LEAN CLAY |
| 81 | 83 | CLAYEY SAND |
| 83 | 84 | LEAN CLAY |
| 84 | 86 | CLAYEY SAND |
| 86 | 90.5 | POORLY GRADED SAND/CLAYEY SAND |
| 90.5 | 98 | WELL GRADED SAND |
| 98 | 105 | LEAN CLAY |
| 105 | 117 | WELL GRADED SAND |
| 117 | 125 | FAT CLAY |
| | | Install nested well MW-108S/MW-108D |

Total Depth of Boring 125 Feet

Total Depth of Completed Well 118 Feet

## Well Owner

Name Pacific Gas and Electric Company

Mailing Address 35863 Fairview Rd.

City Hinkley State CA Zip 92347

## Well Location

Address East Mountain View Ave.bewteen Hwy 58 and Santa Fe.

City Hinkley County San Bernardino

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

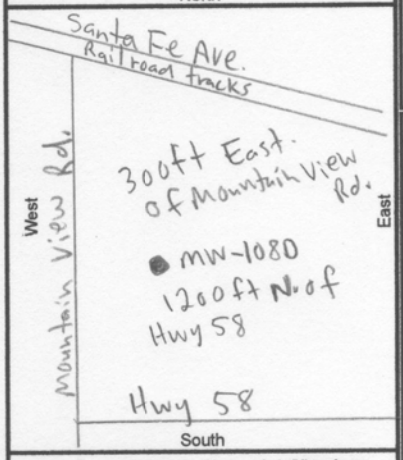
Datum Decimal Lat. Decimal Long.

APN Book 0494 Page 221 Parcel 47

Township 10N Range 3W Section 26

## Location Sketch

(Sketch must be drawn by hand after form is printed.)




Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

## Activity

⦿ New Well
○ Modification/Repair
○ Deepen
○ Other
○ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

## Planned Uses

○ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
⦿ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

## Water Level and Yield of Completed Well

Depth to first water 84 (Feet below surface)

Depth to Static Water Level 84.31 (Feet) Date Measured 6/1/11

Estimated Yield * 10 (GPM) Test Type Constant Rate

Test Length 4 (Hours) Total Drawdown 0.33 (Feet)

*May not be representative of a well's long term yield.

## Casings

| Depth from Surface Feet | to Feet | Borehole Diameter (Inches) | Type | Material | Wall Thickness (Inches) | Outside Diameter (Inches) | Screen Type | Slot Size if Any (Inches) |
|---|---|---|---|---|---|---|---|---|
| 0 | | 108 | Blank | PVC Sch. 40 | 0.154 | 2.375 | | |
| 108 | 118 | 10 | Screen | PVC Sch. 40 | 0.154 | 2.375 | Milled Slots | 0.020 |

## Annular Material

| Depth from Surface Feet | to Feet | Fill | Description |
|---|---|---|---|
| 1 | 75 | Cement | grout |
| 75 | 80 | Bentonite | |
| 80 | 81 | Filter Pack | 030 fine sand |
| 81 | 99 | Filter Pack | |
| 99 | 107 | Bentonite | |
| 107 | 119 | Filter Pack | 2/12 sand |

## Attachments

☑ Geologic Log
☑ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☐ Other

Attach additional information, if it exists.

## Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name (Person, Firm or Corporation)

Address City State CA Zip

Signed (C-57 Licensed Water Well Contractor) Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and print the completed form.

File Original with DWR

State of California

# Well Completion Report

*Refer to Instruction Pamphlet*

No. e0132546

Page 1 of 1

Owner's Well Number MW-108S (aka N-1S)

Date Work Began 5/20/11 Date Work Ended 5/23/11

Local Permit Agency San Bernardino County Department of Public Health

Permit Number 2011050278 Permit Date 5/9/11

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

## Geologic Log

Orientation ⦿ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Sonic Drilling Fluid Fresh Water

| Depth from Surface Feet | to Feet | Description Describe material, grain size, color, etc |
|---|---|---|
| 0 | 12 | SILTY SAND |
| 12 | 16.5 | WELL GRADED SAND |
| 16.5 | 20 | POORLY GRADED SAND |
| 20 | 25.5 | SILTY SAND |
| 25.5 | 27.5 | POORLY GRADED SAND |
| 27.5 | 29.5 | SILTY SAND |
| 29.5 | 32 | SILTY CLAY |
| 32 | 34 | POORLY GRADED SAND |
| 34 | 39 | SILTY CLAY |
| 39 | 40.5 | SANDY SILT/CLAYEY SAND |
| 40.5 | 41.5 | POORLY GRADED SAND |
| 41.5 | 45.5 | SILTY CLAY |
| 45.5 | 48.5 | SILTY SAND |
| 48.5 | 50.5 | LEAN CLAY |
| 50.5 | 53 | CLAYEY SAND |
| 53 | 54.5 | POORLY GRADED SAND |
| 54.5 | 57 | SILTY SAND |
| 57 | 59 | LEAN CLAY |
| 59 | 64.5 | SILTY SAND |
| 64.5 | 65 | WELL GRADED SAND |
| 65 | 81 | LEAN CLAY |
| 81 | 83 | CLAYEY SAND |
| 83 | 84 | LEAN CLAY |
| 84 | 86 | CLAYEY SAND |
| 86 | 90.5 | POORLY GRADED SAND/CLAYEY SAND |
| 90.5 | 98 | WELL GRADED SAND |
| 98 | 105 | LEAN CLAY |
| 105 | 117 | WELL GRADED SAND |
| 117 | 125 | FAT CLAY |
| | | Install nested well MW-108S/MW-108D |

Total Depth of Boring 125 Feet

Total Depth of Completed Well 118 Feet

## Well Owner

Name Pacific Gas and Electric Company

Mailing Address 35863 Fairview Rd.

City Hinkley State CA Zip 92347

## Well Location

Address East Mountain View Ave.bewteen Hwy 58 and Santa Fe.

City Hinkley County San Bernardino

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

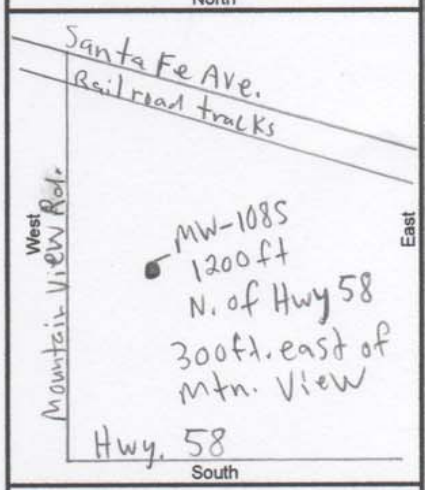
Datum ___ Decimal Lat. ___ Decimal Long. ___

APN Book 0494 Page 221 Parcel 47

Township 10N Range 3W Section 26

## Location Sketch

(Sketch must be drawn by hand after form is printed.)




Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

## Activity

- ⦿ New Well
- ○ Modification/Repair
  - ○ Deepen
  - ○ Other ___
- ○ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

## Planned Uses

- ○ Water Supply
  - ☐ Domestic ☐ Public
  - ☐ Irrigation ☐ Industrial
- ○ Cathodic Protection
- ○ Dewatering
- ○ Heat Exchange
- ○ Injection
- ⦿ Monitoring
- ○ Remediation
- ○ Sparging
- ○ Test Well
- ○ Vapor Extraction
- ○ Other ___

## Water Level and Yield of Completed Well

Depth to first water 84 (Feet below surface)

Depth to Static Water Level 84.31 (Feet) Date Measured 6/1/11

Estimated Yield * 10 (GPM) Test Type Constant Rate

Test Length 4 (Hours) Total Drawdown 0.33 (Feet)

*May not be representative of a well's long term yield.

## Casings

| Depth from Surface Feet | to Feet | Borehole Diameter (Inches) | Type | Material | Wall Thickness (Inches) | Outside Diameter (Inches) | Screen Type | Slot Size if Any (Inches) |
|---|---|---|---|---|---|---|---|---|
| 0 | 83 | 10 | Blank | PVC Sch. 40 | 0.154 | 2.375 | | |
| 83 | 98 | 10 | Screen | PVC Sch. 40 | 0.154 | 2.375 | Milled Slots | 0.020 |

## Annular Material

| Depth from Surface Feet | to Feet | Fill | Description |
|---|---|---|---|
| 1 | 75 | Cement | grout |
| 75 | 80 | Bentonite | |
| 80 | 81 | Filter Pack | 030 fine sand |
| 81 | 99 | Filter Pack | 2/12 sand |

## Attachments

- ☑ Geologic Log
- ☑ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☐ Other ___

Attach additional information, if it exists.

## Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name ___ (Person, Firm or Corporation)

Address ___ City ___ State CA Zip ___

Signed ___ (C-57 Licensed Water Well Contractor) Date Signed ___ C-57 License Number ___



IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

# Well Completion Report

*Refer to Instruction Pamphlet*

No. e0132547

Page 1 of 1

Owner's Well Number MW-109 (aka N-2)

Date Work Began 5/25/11 Date Work Ended 5/27/11

Local Permit Agency San Bernardino County Department of Health Services

Permit Number 2011050279 Permit Date 5/11/2011

DWR Use Only – Do Not Fill In

State Well Number/Site Number

Latitude N Longitude W

APN/TRS/Other

## Geologic Log

Orientation ⦿ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Sonic Drilling Fluid Fresh Water

| Depth from Surface Feet | to Feet | Description Describe material, grain size, color, etc |
|---|---|---|
| 0 | 25 | SILTY SAND |
| 25 | 27.5 | SILTY CLAY |
| 27.5 | 28 | POORLY GRADED SAND |
| 28 | 34 | SILTY SAND |
| 34 | 37 | SILTY CLAY |
| 37 | 39.5 | SILTY SAND |
| 39.5 | 40 | SILTY CLAY |
| 40 | 47.5 | SILTY SAND/SANDY CLAY |
| 47.5 | 50 | SILTY SAND |
| 50 | 55 | SILTY CLAY |
| 55 | 57.5 | SILTY SAND |
| 57.5 | 62.5 | LEAN CLAY |
| 62.5 | 65.5 | SILTY CLAY/SILTY SAND |
| 65.5 | 68.5 | SILTY SAND |
| 68.5 | 76.5 | SILTY CLAY |
| 76.5 | 80 | SILTY SAND |
| 80 | 81.5 | WELL GRADED SAND |
| 81.5 | 84 | LEAN CLAY |
| 84 | 85 | WELL GRADED SAND |
| 85 | 87.5 | LEAN CLAY |
| 87.5 | 89.5 | POORLY GRADED SAND |
| 89.5 | 91.5 | SILTY SAND |
| 91.5 | 95 | POORLY GRADED SAND |
| 95 | 97.5 | SILTY SAND |
| 97.5 | 100 | WELL GRADED SAND |
| 100 | 105 | POORLY GRADED SAND |
| 105 | 108 | WELL GRADED SAND |
| 108 | 110.5 | CLAYEY SAND |
| 110.5 | 112.5 | FAT CLAY |
| 112.5 | ? | BEDROCK, BORING TERMINATED |

Total Depth of Boring 112.5 Feet

Total Depth of Completed Well 103 Feet

## Well Owner

Name Pacific Gas and Electric Company

Mailing Address 35863 Fairview Rd.

City Hinkley State CA Zip 92347

## Well Location

Address Mtn. View Ave east side S of Santa Fe Ave/rail road tracks

City Hinkley County San Bernardino

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

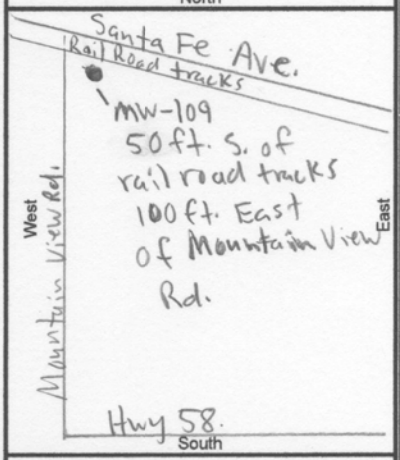
Datum Decimal Lat. Decimal Long.

APN Book 0494 Page 221 Parcel 47

Township 10N Range 3W Section 26

## Location Sketch

(Sketch must be drawn by hand after form is printed.)




Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

## Activity

- ⦿ New Well
- ○ Modification/Repair
  - ○ Deepen
  - ○ Other
- ○ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

## Planned Uses

- ○ Water Supply
  - ☐ Domestic ☐ Public
  - ☐ Irrigation ☐ Industrial
- ○ Cathodic Protection
- ○ Dewatering
- ○ Heat Exchange
- ○ Injection
- ⦿ Monitoring
- ○ Remediation
- ○ Sparging
- ○ Test Well
- ○ Vapor Extraction
- ○ Other

## Water Level and Yield of Completed Well

Depth to first water 82 (Feet below surface)

Depth to Static Water Level 81.28 (Feet) Date Measured 6/1/11

Estimated Yield * 4 (GPM) Test Type Constant Rate

Test Length 2 (Hours) Total Drawdown 3.7 (Feet)

*May not be representative of a well's long term yield.

## Casings

| Depth from Surface Feet | to Feet | Borehole Diameter (Inches) | Type | Material | Wall Thickness (Inches) | Outside Diameter (Inches) | Screen Type | Slot Size if Any (Inches) |
|---|---|---|---|---|---|---|---|---|
| 0 | 93 | 10 | Blank | PVC Sch. 40 | 0.154 | 2.375 | | |
| 93 | 103 | 10 | Screen | PVC Sch. 40 | 0.154 | 2.375 | Milled Slots | 0.020 |

## Annular Material

| Depth from Surface Feet | to Feet | Fill | Description |
|---|---|---|---|
| 1 | 81 | Cement | grout |
| 81 | 90 | Bentonite | |
| 90 | 91 | Filter Pack | 030 fine sand |
| 91 | 104 | Filter Pack | 2/12 sand |
| 104 | 112.5 | Bentonite | |

## Attachments

- ☑ Geologic Log
- ☑ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☐ Other

Attach additional information, if it exists.

## Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name (Person, Firm or Corporation)

Address City State CA Zip

Signed (C-57 Licensed Water Well Contractor) Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

# Appendix C
# Groundwater Sample Logs and Laboratory Reports

# C-1
# Field Logs

# Well Survey Form
## Hinkley, California

Picture #_____

| Well ID: | PG&E ID: | 22-17 | Date & Time of Field Visit |
|---|---|---|---|
| | DWR ID: | | Date: 4/8/11 |
| | Owner ID: | | Time: 1130 |

Could this well be located? (Check): (Yes) | No

**Well Location:**

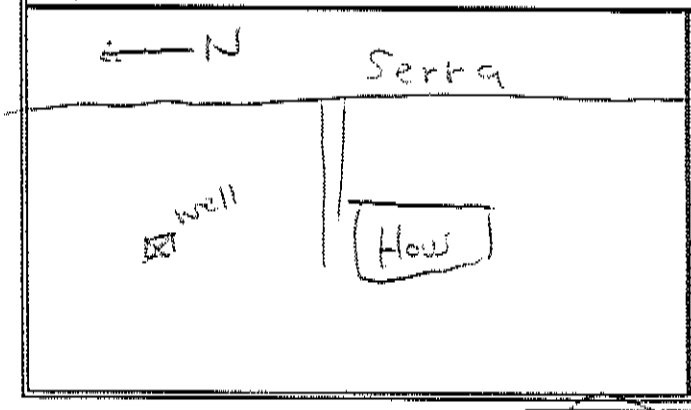
Physical Address: 37776 Serra Rd, Hinkley CA

APN Number:

GPS Coordinates (NAD 27 Zone 5 in feet) Northing: _____ Easting: _____

Other Location Info:

Map of Location on Parcel:




**Owner Information:**

Name: Andrew Helmark

Address: 37776 Serra Rd

Phone #s: (760) 253-3559

Leave Msg if Home

**Tenant Information**

Name:

Phone #s:

Well Status? (Check): (Active) | Inactive | Abandoned | Destroyed

Parcel Inhabitated? (Check): (Yes) | No

Number of residences served:

Agricultural Practices:

**Well Construction:** Material:

Screen Interval

In-Line Treatment System:

Installation Date:

Required Sampling Method: (Spigot) | Other (describe):

**Well Type (Check):** (Domestic) | Agricultural | Other (Describe):

**Well Usage History:**

**Comments:** 1st plug, need retro DO NOT SAMPLE WITHOUT OWNER - Big Mean Dogs

1) Complete one Well Survey Form per well.
2) For all wells that can be located, leave no blanks. Where information is not available mark NA.

WellSurveyForm

3/4/2011

# Well Survey Form
# Hinkley, California

Picture #_____

| Well ID: | PG&E ID: | 22-66 | Date & Time of Field Visit |
|---|---|---|---|
| | DWR ID: | | Date: 4/8/11 |
| | Owner ID: | | Time: 1145 |

Could this well be located? (Check): (Yes) | No

**Well Location:**

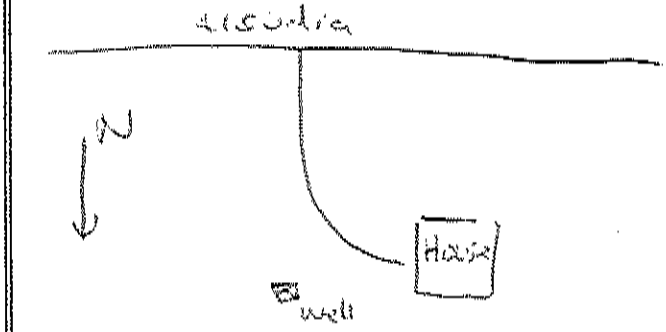
Physical Address: _____

APN Number: _____

GPS Coordinates Northing: _____ Easting: _____
NAD 27 Zone 5 in feet

Other Location Info: _____

Map of Location on Parcel:




**Owner Information:**

Name: James Nelson
Address: 21878 Alcudra
Phone #s: (760) 253-7969
Cell (760) 590 5504 ← Best #

**Tenant Information**

Name: _____
Phone #s: _____

Well Status? (Check): (Active) | Inactive | Abandoned | Destroyed

Parcel Inhabitated? (Check): (Yes) | No

Number of residences served: _____

Agricultural Practices: _____

**Well Construction:** Material: _____

Screen Interval _____

In-Line Treatment System: _____

Installation Date: _____

Required Sampling Method: (Spigot) | Other (describe): _____

**Well Type (Check):** (Domestic) | Agricultural | Other (Describe): _____

**Well Usage History:** _____

**Comments:** Home every day, just truck, willing to sample every day any time, call first, dogs may be loose

1) Complete one Well Survey Form per well.
2) For all wells that can be located, leave no blanks. Where information is not available mark NA.

# Well Survey Form
## Hinkley, California

Picture #_____

| Well ID: | PG&E ID: | 22-16 | Date & Time of Field Visit |
|---|---|---|---|
| | DWR ID: | | Date: 4/8/11 |
| | Owner ID: | | Time: 1220 |

Could this well be located? (Check): (Yes) | No

**Well Location:**

Physical Address: ~~31~~ 21846 Alcudia

APN Number:

GPS Coordinates NAD 27 Zone 5 In feet — Northing: _____ Easting: _____

Other Location Info:

Map of Location on Parcel:

**Owner Information:**

Name: Bostwright

Address:

Phone #s:

**Tenant Information**

Name: ~~Bob~~ ~~Carol~~ Carol Harris

Phone #s: (760) 307-5101

Well Status? (Check): (Active) | Inactive | Abandoned | Destroyed

Parcel Inhabitated? (Check): (Yes) | No

Number of residences served:

Agricultural Practices:

**Well Construction:** Material:

Screen Interval

In-Line Treatment System:

Installation Date:

Required Sampling Method: (Spigot) | Other (describe):

**Well Type (Check):** Domestic | Agricultural | Other (Describe):

**Well Usage History:**

**Comments:** Dogs should be roped up. Call first to make appointment.

1) Complete one Well Survey Form per well.
2) For all wells that can be located, leave no blanks. Where information is not available mark NA.

**Project Name** PGE Hinkley
Job Number 405579.GW.FW.SW
Sampler RC Field Team 1 Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
Date 4/4/11
Page 1 of 1

**Well/Sample Number** 02-02A-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1343 Purge Method Bladder Ded. Pump

Flow Cell Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1348 | 5 | 7.59 | 522 | 1 | 1.05 | 22.04 | 0.25 | 0.339 | -35.2 | |
| — | 1351 | 8 | 7.64 | 522 | 1 | 1.10 | 22.13 | 0.25 | 0.339 | -37.8 | |
| — | 1354 | 11 | 7.65 | 521 | 1 | 1.15 | 22.02 | 0.25 | 0.339 | -33.2 | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | N/A | N/A | Y |
| Previous Field measurement (1/24/2011) | 7.93 | 250 | 1 | 0.7 | 22 | 0.012 | 167 | -105.2 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1359 Sample Location: pump tubing ____ well port ____ spigot ____ bailer Y other ____

Comments: Double filter post NTU 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (235)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/5/11

Sampler RP Field Team 1 Field Conditions Clear

Page 1 of 1

**Well/Sample Number** 10-02-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 0932 Purge Method Peristaltic Ded. Pump

Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 0937 | 5 | 7.16 | 786 | 88 | 5.53 | 20.26 | 0.38 | 0.510 | 141.2 | |
| — | 0940 | 8 | 7.63 | 793 | 27 | 5.52 | 20.24 | 0.39 | 0.515 | 3.0 | |
| — | 0943 | 11 | 7.73 | 792 | 21 | 5.54 | 20.25 | 0.39 | 0.515 | 1.2 | |
| — | 0947 | 15 | 7.79 | 794 | 16 | 5.62 | 20.18 | 0.39 | 0.516 | 3.1 | |
| — | 0950 | 18 | 7.83 | 794 | 13 | 5.71 | 20.17 | 0.39 | 0.518 | 6.7 | |
| — | 0953 | 21 | 7.84 | 799 | 12 | 5.88 | 20.11 | 0.39 | 0.520 | 14.1 | |
| — | 0956 | 24 | 7.84 | 800 | 12 | 5.90 | 20.10 | 0.39 | 0.520 | 15.0 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement 0 | | 0 | | | | | 0 | |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 0957 Sample Location: pump tubing ___ well port ___ spigot X bailer ___ other ___

Comments: Double Filter Post NTU < 1

Initial Depth to Water (ft BTOC): ___

Field measured confirmation of Well Depth (ft btoc ): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405579.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/4/11

Sampler RC Field Team 1 Field Conditions Clear

Page 1 of 1

**Well/Sample Number** 11-06-011-Q2

**QC Sample ID** NA

QC Sample Time

Purge Start Time 1130

Purge Method Domestic Ded. Pump

Flow Cell (Y) N

Min. Purge Volume (gal)/(L)

Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1135 | 5 | 7.55 | 625 | 4 | 6.57 | 20.90 | 0.30 | 0.399 | -50.4 | |
| — | 1138 | 8 | 7.51 | 615 | 4 | 6.56 | 20.96 | 0.30 | 0.400 | -47.9 | |
| — | 1141 | 11 | 7.47 | 621 | 4 | 6.51 | 21.30 | 0.30 | 0.404 | -42.0 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement 0 | | 0 | | | | | 0 | |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1142 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC):

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RJ Field Team 1 Field Conditions

Page ____ of ____

**Well/Sample Number** 14-06-011-Q2

**QC Sample ID** NA

QC Sample Time

Purge Start Time 0903

Purge Method ____ Ded. Pump Y

Flow Cell (Y) N

Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 0908 | 5 | 7.59 | 0.755 | 1 | 4.18 | 22.13 | 0.37 | 0.492 | 76.1 | |
| ↓ | 0911 | 8 | 7.69 | 0.768 | 1 | 4.35 | 21.99 | 0.37 | 0.499 | 74.1 | |
| ↓ | 0914 | 11 | 7.69 | 0.769 | 1 | 4.29 | 21.99 | 0.39 | 0.500 | 70.2 | |
| | | | | | | | | | | | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/6/2011) | 7.68 | 735 | 1 | 3.25 | 22.3 | 0.036 | 474,200 | 90.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 0915 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered, Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 9/14/11

Sampler RJ Field Team 1 Field Conditions

Page ____ of ____

**Well/Sample Number** 22-30-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1447 Purge Method Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) N/A Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1452 | 5 | 7.91 | 760 | 1 | 7.01 | 21.45 | 0.37 | 0.761 | 59.1 | |
| | 1455 | 8 | 7.90 | 764 | 1 | 7.07 | 21.45 | 0.37 | 0.761 | 61.4 | |
| | 1458 | 11 | 7.90 | 766 | 1 | 7.11 | 21.47 | 0.37 | 0.761 | 63.1 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/12/2011) | | | 7.89 | 825 | 1 | 0.14 | 21.9 | 0.041 | 540 | 72.9 | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 1459 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Post Eh, Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): N/A Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RF Field Team 1 Field Conditions Windy

**Sampling Event** 2011-DOM-011-Q2
Date 4/11/11
Page ____ of ____

**Well/Sample Number** 22-40-011-Q2 **QC Sample ID** 04-01-011-Q2 QC Sample Time 1525

Purge Start Time 1509 Purge Method ____ Ded. Pump no Y

Flow Cell: Y / N Min. Purge Volume (gal)/(L) ____ Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1514 | 5 | 7.69 | 888 | 1 | 6.23 | 21.45 | 0.44 | 0.596 | 49.4 | |
| ↓ | 1517 | 8 | 7.69 | 889 | 1 | 6.17 | 21.70 | 0.44 | 0.597 | 50.1 | |
| ↓ | 1520 | 11 | 7.70 | 892 | 1 | 6.19 | 21.71 | 0.44 | 0.597 | 52.0 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/10/2011) | 7.71 | 434 | 1 | 4.87 | 18 | 0.047 | 611 | 110.3 |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1521 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): N/A Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler RJ Field Team 1 Field Conditions _____ Page _____ of _____

**Well/Sample Number** 22-50-011-Q2 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 0943 Purge Method _____ Ded. Pump Y

Flow Cell (Y) N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 0948 | 5 | 7.75 | 717 | 1 | 6.11 | 21.37 | 0.35 | 0.465 | 62.8 | |
| ↓ | 0951 | 8 | 7.75 | 716 | 1 | 5.91 | 21.37 | 0.35 | 0.466 | 61.5 | |
| ↓ | 0954 | 11 | 7.75 | 716 | 1 | 5.90 | 21.40 | 0.35 | 0.466 | 60.2 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (12/14/2010) | 7.78 | 727 | 1 | 4.84 | 21.85 | 0.35 | 473 | 90.4 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 0957 Sample Location: pump tubing _____ well port _____ spigot ✓ bailer _____ other _____

Comments: Double filtered - post filter turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc ): _____

WD (Well Depth - from database) ft btoc _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal _____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-[redacted] GMP-010-Q2
**Date** 4/7/11

Sampler RJ Field Team 1 Field Conditions _____ Page _____ of _____

**Well/Sample Number** [redacted] G42R-010-Q2
**QC Sample ID** NA
QC Sample Time _____
Purge Start Time 0910
Purge Method _____ Ded. Pump Y
Flow Cel (Y) / N
Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA ~~0915~~ | 0915 | 5 | 6.75 | 2628 | 1 | 4.63 | 21.74 | 1.36 | 1.706 | 133.0 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement 0 | | | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 0915 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____
Comments: Double Filtered - Post Filter Turbidity = .1 NTU

Initial Depth to Water (ft BTOC): NA
Field measured confirmation of Well Depth (ft btoc ): _____
WD (Well Depth - from database) ft btoc _____
SWH (Standing Water Height) = WD-Initial Depth _____
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 _____
One Casing Volume = D*SWH _____
Three Casing Volumes = _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal _____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Hinkley Sampling Log

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011[redacted]-Q2 MP-010-
**Date** 9/4/11

Sampler RJ Field Team 1 Field Conditions WINDY

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**Well/Sample Number** [redacted]-Q2 9-5R-010-Q2

**QC Sample ID** NA

QC Sample Time ____

Purge Start Time 0925

Purge Method ____ Ded. Pump Y

Flow Cell: (Y) N

Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 0930 | 5 | 7.42 | 1357 | 1 | 3.62 | 21.83 | 0.63 | 0.885 | 81.7 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stabilize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement 0 | | | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 0930 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 0

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RJ Field Team 1 Field Conditions

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**Well/Sample Number** 23-13-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1012 Purge Method Ded Ded. Pump Y

Flow Cell: Y N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged (gallons/liters) | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1017 | 5 | 6.84 | 5812 | 1 | 2.58 | 21.72 | 3.16 | 3.779 | 44.7 | |
| ↓ | 1020 | 8 | 6.85 | 5816 | 1 | 2.56 | 21.73 | 3.16 | 3.781 | 44.3 | |
| ↓ | 1023 | 11 | 6.85 | 5819 | 1 | 2.57 | 21.73 | 3.16 | 3.783 | 44.6 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/10/2011) | 6.84 | 5,591 | 1 | 2.36 | 21.73 | 0.302 | 3,651 | 76.2 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1024 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered, Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal ____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler _____ Field Team 1 Field Conditions _____ Page _____ of _____

**Well/Sample Number** 23-20-011-Q2 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 1149 Purge Method _____ Ded. Pump _____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1150 | 5 | 6.91 | 3996 | 1 | 1.08 | 21.50 | 2.12 | 2.597 | 73.0 | |
| ↓ | 1155 | 8 | 6.91 | 3997 | 1 | 1.01 | 21.52 | 2.12 | 2.579 | 72.0 | |
| ↓ | 1200 | 11 | 6.91 | 3997 | 1 | 1.11 | 21.56 | 2.12 | 2.558 | 71.1 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (8/11/2009) | 6.77 | 3,852 | -3.1 | 3.83 | 23.04 | 0.204 | 2,509 | 46.6 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1201 Sample Location: pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: Double Filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc ): _____

WD (Well Depth - from database) ft btoc _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal _____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler PC Field Team 1 Field Conditions Hot

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**Well/Sample Number** 23-22-011-Q2 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1118 Purge Method ____ Ded. Pump ____

Flow Cell (Y) N Min. Purge Volume (gal)(L) NA Purge Rate (gpm)(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1121 | 5 | 7.12 | 2359 | 2 | 4.55 | 22.39 | 1.21 | 1.576 | 52.1 | |
| ↓ | 1124 | 8 | 7.14 | 2373 | 1 | 4.49 | 22.39 | 1.22 | 1.540 | 50.7 | |
| ↓ | 1127 | 11 | 7.15 | 2378 | 1 | 4.39 | 22.39 | 1.22 | 1.542 | 49.0 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/25/2011) | 7.03 | 2,079 | 3 | 1.35 | 22.27 | 0.106 | 1,352 | 144 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1128 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered, Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc): ↓

WD (Well Depth - from database) ft btoc ↓

SWH (Standing Water Height) = WD-Initial Depth ↓

D (Volume as per diameter) 2"= 0.17, 4"= 0.65, 1"=0.041 ↓

One Casing Volume = D*SWH ↓

Three Casing Volumes = ↓

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ____ Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RJ Field Team 1 Field Conditions
**Sampling Event** 2011-DOM-011-Q2
Date 4/5/11
Page of

**Well/Sample Number** 23-24-011-Q2 **QC Sample ID** NA QC Sample Time
Purge Start Time 1045 Purge Method Ded. Ded. Pump Y
Flow Cell (Y) / N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1040 | 5 | 6.94 | 6055 | 1 | 3.95 | 22.07 | 3.29 | 3.923 | 52.5 | |
| ↓ | 1053 | 8 | 6.93 | 6074 | 1 | 3.91 | 22.13 | 3.31 | 3.955 | 54.7 | |
| ↓ | 1056 | 11 | 6.92 | 6090 | 1 | 3.90 | 22.15 | 3.32 | 3.963 | 55.0 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/9/2011) | 7.12 | 5,370 | 1 | 3.79 | 22.03 | 0.29 | 3,488 | 160.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1057 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____
Comments: Double Filtered, Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
Field measured confirmation of Well Depth (ft btoc ):
WD (Well Depth - from database) ft btoc (235)
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (8 in)
One Casing Volume = D*SWH
Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RJ Field Team 1 Field Conditions

**Sampling Event** 2011-DOM-011-Q2
Date 4/6/11
Page 1 of 1

**Well/Sample Number** 23-25-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1334 Purge Method Ded. Pump Y

Flow Cell (Y) N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged (gallons / liters) | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1339 | 5 | 7.26 | 1370 | 1 | 2.71 | 22.10 | 0.69 | 0.900 | 55.8 | |
| ↓ | 1342 | 8 | 7.23 | 1376 | 1 | 2.74 | 22.13 | 0.70 | 0.906 | 53.5 | |
| ↓ | 1345 | 11 | 7.21 | 1380 | 1 | 2.79 | 22.16 | 0.70 | 0.910 | 52.7 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/9/2011) | 7.79 | 718 | 1 | 3.01 | 22.03 | 0.035 | 467 | 127.2 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1346 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Port Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ____ Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RS Field Team 1 Field Conditions Hot

Page ____ of ____

**Well/Sample Number** 23-26-011-Q2 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1145 Purge Method ____ Ded. Pump ____

Flow Cell (Y) N Min. Purge Volume (gal)/(L) ____ Purge Rate (gpm)/(mLpm) ____

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1150 | 5 | 6.93 | 6208 | 1 | 2.70 | 24.30 | 3.33 | 3.987 | 13.6 | |
| | 1153 | 8 | 6.95 | 6029 | 1 | 2.60 | 23.34 | 3.33 | 3.974 | 10.4 | |
| | 1156 | 11 | 6.90 | 6082 | 1 | 2.53 | 22.62 | 3.31 | 3.956 | 14.1 | |
| | 1159 | 14 | 6.92 | 6086 | 1 | 2.57 | 22.70 | 3.31 | 3.956 | 14.0 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/9/2011) | 7.11 | 5,274 | 1 | 2.05 | 21.38 | 0.282 | 3,416 | -10.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1200 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double filtered, Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (212)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (8 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ____ Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
Date 4/7/11
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**Well/Sample Number** 23-27-011-Q2
**QC Sample ID** NA
QC Sample Time
Purge Start Time 0909
Purge Method Domestic Ded. Pump
Flow Cell (Y) / N
Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 0914 | 5 | 8.45 | 695 | 1 | 0.50 | 23.00 | 0.34 | 0.452 | 58.0 | |
| — | 0917 | 8 | 8.51 | 697 | 1 | 0.40 | 23.54 | 0.34 | 0.453 | 43.9 | |
| — | 0920 | 11 | 8.49 | 693 | 1 | 0.35 | 23.71 | 0.34 | 0.451 | 34.2 | |
| — | 0923 | 14 | 8.49 | 693 | 1 | 0.31 | 23.58 | 0.34 | 0.456 | 30.1 | |
| — | 0926 | 17 | 8.49 | 692 | 1 | 0.29 | 23.61 | 0.34 | 0.450 | 28.2 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (1/24/2011) | 8.68 | 667 | 2 | 0.32 | 24.12 | 0.033 | 432 | 57.4 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 0927 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____
Comments: Double Filter Post NTU=1

Initial Depth to Water (ft BTOC): ____
Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____
Field measured confirmation of Well Depth (ft btoc ): ____
WD (Well Depth - from database) ft btoc (290)
SWH (Standing Water Height) = WD-Initial Depth ____
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (5 in)
One Casing Volume = D*SWH ____
Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RS Field Team 1 Field Conditions

**Sampling Event** 2011-DOM-011-Q2
Date 4/6/11
Page 1 of 1

**Well/Sample Number** 23-28-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1013 Purge Method Ded. Pump

Flow Cell (Y) N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1018 | 5 | 7.67 | 735 | 1 | 4.08 | 21.98 | 0.36 | 0.479 | 71.0 | |
| ↓ | 1021 | 8 | 7.64 | 740 | 1 | 4.16 | 21.97 | 0.36 | 0.482 | 70.1 | |
| ↓ | 1024 | 11 | 7.63 | 742 | 1 | 4.20 | 21.97 | 0.36 | 0.482 | 69.7 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/10/2011) | 7.63 | 790 | 1 | 4.06 | 22.3 | 0.039 | 514 | 120.9 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1025 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RJ Field Team 1 Field Conditions Windy/Hot

**Sampling Event** 2011-DOM-011-Q2
Date 4/5/11
Page 1 of 1

**Well/Sample Number** 23-32-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time ~~1450~~ 1650 Purge Method Ded. Pump Y

Flow Cell (Y) N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA 1655 | ~~1457~~ | 5 | 7.61 | 1262 | 10 | 2.38 | 22.11 | 0.63 | 0.816 | 13.1 | |
| 1658 | ~~1458~~ | 8 | 7.66 | 1218 | 5 | 2.10 | 22.73 | 0.60 | 0.786 | -30.1 | |
| 1702 | ~~1500~~ | 11 | 7.68 | 1185 | 4 | 2.60 | 23.63 | 0.59 | 0.770 | -50.7 | |
| 1705 | — | 14 | 7.69 | 1190 | 4 | 2.71 | 23.14 | 0.60 | 0.778 | -52.7 | |
| | 1708 | 17 | 7.69 | 1192 | 4 | 2.79 | 23.40 | 0.60 | 0.778 | -51.0 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (2/7/2011) | 7.45 | 1,023 | 12 | 1.1 | 21.72 | 0.051 | 665 | -80.5 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time ~~1505~~ Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: 1709 Double Filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

**If Transducer**

| Initial DTW / Before Removal | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler RC Field Team 1 Field Conditions Cloudy

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**Well/Sample Number** 24-02-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 0910 Purge Method Domestic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 0924 | 5 | 7.70 | 593 | 1 | 2.73 | 21.09 | 0.29 | 0.394 | 45.1 | |
| — | 0927 | 8 | 7.70 | 600 | 2 | 2.61 | 21.04 | 0.30 | 0.396 | 30.3 | |
| — | 0930 | 11 | 7.70 | 614 | 5 | 2.59 | 21.09 | 0.30 | 0.399 | 32.6 | |
| — | 0933 | 14 | 7.70 | 616 | 8 | 2.54 | 21.80 | 0.30 | 0.402 | 29.3 | |
| | | | | | | | | | | | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (2/7/2011) | 7.57 | 610 | 6 | 1.27 | 21.91 | 0.03 | 396 | 65.9 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 0934 Sample Location: pump tubing ___ well port ___ spigot X bailer ___ other ___

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc ): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (8 in)

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ___ Time of Reinstallation ___ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler BJ Field Team 1 Field Conditions

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**Well/Sample Number** 24-03-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1302 Purge Method Ded. Pump Y

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1307 | 5 | 7.89 | 422 | 1 | 2.76 | 21.64 | 0.20 | 0.274 | 34.8 | |
| ↓ | 1310 | 8 | 7.89 | 429 | 1 | 2.79 | 21.77 | 0.20 | 0.274 | 36.1 | |
| ↓ | 1313 | 11 | 7.90 | 429 | 1 | 2.91 | 21.81 | 0.20 | 0.274 | 37.9 | |
| | | | | | | | | | | | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/9/2011) | 8.08 | 427 | 1 | 4.22 | 21.72 | 0.02 | 276 | 85 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1314 Sample Location: pump tubing ___ well port ___ spigot ✓ bailer ~~BJ~~ other

Comments: Double Filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (6 in)

One Casing Volume = D*SWH

Three Casing Volumes =

**If Transducer**

| Initial DTW / Before Removal | | Approx. 5 min After Reinstallation | |
|---|---|---|---|
| Time | Initial DTW | Time | Final DTW |
| | | | |

Time of Removal

Time of Reinstallation

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler RJ Field Team 1 Field Conditions _____ Page _____ of _____

**Well/Sample Number** 24-04-011-Q2 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 1040 Purge Method _____ Ded. Pump Y

Flow Cell (Y) N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1045 | 5 | 7.73 | 847 | 1 | 6.07 | 21.42 | 0.42 | 0.550 | 58.4 | |
| | 1048 | 8 | 7.72 | 845 | 1 | 5.93 | 21.44 | 0.42 | 0.549 | 58.1 | |
| | 1051 | 11 | 7.72 | 844 | 1 | 5.90 | 21.47 | 0.42 | 0.547 | 57.0 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/9/2011) | 7.79 | 862 | 1 | 4.77 | 21.84 | 0.042 | 559 | 118.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1052 Sample Location: pump tubing _____ well port _____ spigot ✓ bailer _____ other _____

Comments: Double Filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Field measured confirmation of Well Depth (ft btoc ): _____

WD (Well Depth - from database) ft btoc _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (6 in) _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal _____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
Date 4/6/11
Page 1 of 1

**Well/Sample Number** 24-07-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1246 Purge Method Dom ed rc Ded. Pump

Flow Cell Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1251 | 5 | 7.85 | 583 | 1 | 3.35 | 21.47 ~~3.55~~ | 0.28 | 0.379 | 80.1 | |
| — | 1254 | 8 | 7.87 | 585 | 1 | 2.84 | 22.20 | 0.28 | 0.380 | 75.6 | |
| — | 1257 | 11 | 7.82 | 590 | 2 | 2.65 | 22.02 | 0.29 | 0.384 | 75.1 | |
| — | 1300 | 14 | 7.80 | 600 | 5 | 2.67 | 22.05 | 0.29 | 0.390 | 74.2 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (8/10/2010) | 7.9 | 640 | 5 | 4.45 | 22.3 | 0.31 | 416 | 117.7 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1300 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: Double Filter Post PTW #1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal ____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler RP Field Team 1 Field Conditions Cloudy

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**Well/Sample Number** 24-08-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1138 Purge Method Dome st c Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1143 | 5 | 7.92 | 465 | 4 | 2.40 | 20.91 | 0.22 | 0.302 | -86.7 | |
| — | 1146 | 8 | 7.92 | 464 | 1 | 2.39 | 20.95 | 0.22 | 0.302 | -89.9 | |
| — | 1149 | 11 | 7.84 | 464 | 1 | 2.31 | 20.96 | 0.22 | 0.302 | -92.1 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | N/A | N/A | Y |
| Previous Field measurement (2/7/2011) | 7.92 | 444 | 1 | 0.62 | 21.71 | 0.021 | 288 | 18.1 |
| Are measurements consistent with previous? | Y | Y | Y | N | NA | Y | Y | N |

Sample Time 1150 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RJ Field Team 1 Field Conditions Windy/Hot

Page 1 of 1

**Well/Sample Number** 24-09-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1412 Purge Method Ded. Pump Y

Flow Cell: Y N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol.-Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1417 | 5 | 7.40 | 1999 | 1 | 6.17 | 21.77 | 1.04 | 1.325 | 32.1 | |
| ↓ | 1420 | 8 | 7.42 | 1974 | 1 | 6.15 | 21.79 | 1.01 | 1.283 | 33.5 | |
| ↓ | 1423 | 11 | 7.42 | 1970 | 1 | 6.10 | 21.83 | 1.01 | 1.287 | 35.8 | |
| | | | | | | | | | | | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/26/2011) | 7.29 | 1,971 | 1 | 6.2 | 22.01 | 0.1 | 1,280 | 43 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1424 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered, post Filter Turbidity = 1

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ____ |
| | | | | Time of Reinstallation ____ |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
Date 4/6/11
Page 1 of 1

**Well/Sample Number** 24-10-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1503 Purge Method Domestic Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1508 | 5 | 8.01 | 567 | 2 | 1.20 | 22.13 | 0.27 | 0.364 | 52.1 | |
| — | 1511 | 8 | 7.98 | 560 | 2 | 1.26 | 22.39 | 0.27 | 0.365 | 53.1 | |
| — | 1514 | 11 | 7.90 | 555 | 2 | 1.29 | 22.43 | 0.27 | 0.360 | 53.2 | |
| — | 1517 | 14 | 7.89 | 554 | 1 | 1.26 | 22.38 | 0.27 | 0.360 | 51.3 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (2/9/2011) | 7.89 | 658 | 1 | 4.69 | 22.19 | 0.032 | 423 | 125.7 |
| Are measurements consistent with previous? | Y | Y | Y | N | NA | Y | Y | Y |

Sample Time 1514 Sample Location: pump tubing ___ well port ___ spigot ___ bailer ___ other ___

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ___ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ___ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler RP Field Team 1 Field Conditions Cloudy

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**Well/Sample Number** 24-11-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1004 Purge Method Dedicated Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | EhORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1009 | 5 | 8.35 | 525 | 191 | 1.98 | 21.40 | 0.25 | 0.341 | 20.0 | |
| — | 1012 | 8 | 8.39 | 524 | 213 | 1.78 | 21.42 | 0.25 | 0.340 | -5.2 | |
| — | 1015 | 11 | 8.34 | 520 | 188 | 1.64 | 21.44 | 0.23 | 0.340 | -10.3 | |
| — | 1018 | 14 | 8.32 | 515 | 224 | 1.61 | 21.39 | 0.25 | 0.334 | -12.5 | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (3/4/2011) | 8.34 | 472 | 310 | 1.2 | 21.7 | 0.024 | 322 | 80.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | N |

Sample Time 1019 Sample Location: pump tubing ___ well port ___ spigot Y bailer ___ other ___

Comments: Double Filter Post-purge = 2

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc ): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RJ Field Team 1 Field Conditions

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**Well/Sample Number** 25-07-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1550 Purge Method Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1555 | 5 | 7.40 | 1378 | 42 | 5.05 | 21.15 | 0.69 | 0.890 | 46.9 | |
| ↓ | 1558 | 8 | 7.40 | 1377 | 42 | 5.65 | 21.83 | 0.69 | 0.870 | 49.5 | |
| ↓ | 1601 | 11 | 7.40 | 1375 | 41 | 5.59 | 21.89 | 0.69 | 0.869 | 49.9 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/26/2011) | 7.48 | 1,107 | 8 | 4.99 | 21.77 | 0.052 | 681 | 37.6 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1602 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double filtered - Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc ): ↓

WD (Well Depth - from database) ft btoc (200)

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler JJ Field Team 1 Field Conditions

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**Well/Sample Number** 25-10-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time ~~1423~~ 1410 Purge Method Ded. Pump

Flow Cell (Y) N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1415 | 5 | 7.47 | 1313 | 1 | 5.81 | 21.97 | 0.66 | 0.853 | 52.2 | |
| ↓ | 1418 | 8 | 7.46 | 1310 | 1 | 5.74 | 22.14 | 0.66 | 0.854 | 53.7 | |
| ↓ | 1421 | 11 | 7.46 | 1309 | 1 | 5.90 | 22.19 | 0.66 | 0.852 | 54.7 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/24/2011) | 7.41 | 292 | 1 | 4.34 | 22 | 0.014 | 191 | 103.9 |
| Are measurements consistent with previous? | Y | N | Y | Y | NA | N | N | Y |

Sample Time 1422 Sample Location: pump tubing ___ well port ___ spigot ✓ bailer ___ other ___

Comments: Double Filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (8 in)

One Casing Volume = D*SWH

Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RJ Field Team 1 Field Conditions Windy

Page ____ of ____

**Well/Sample Number** 25-11-011-Q2 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1512 Purge Method ____ Ded. Pump Y

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1517 | 5 | 7.22 | 2018 | 1 | 5.25 | 21.39 | 0.95 | 1.820 | 43.7 | |
| ↓ | 1520 | 8 | 7.22 | 2009 | 1 | 5.11 | 21.40 | 0.95 | 1.900 | 41.2 | |
| ↓ | 1523 | 11 | 7.22 | 2002 | 1 | 5.02 | 21.49 | 0.95 | 1.900 | 40.7 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/26/2011) | 7.24 | 1,344 | 37 | 4.54 | 21.61 | 0.071 | 920 | -16.8 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | N | ~~N~~ Y |

Sample Time 1524 Sample Location: pump tubing ____ well port ____ spigot / bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (160)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RJ Field Team 1 Field Conditions Windy

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**Well/Sample Number** 25-12-011-Q2 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1444 Purge Method ____ Ded. Pump Y

Flow Cell: Y / N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1449 | 5 | 7.22 | 1189 | 1 | 5.14 | 21.73 | 0.90 | 1.148 | 35.0 | |
| | 1452 | 8 | 7.29 | 1232 | 1 | 2.51 | 22.03 | 0.60 | 0.790 | 31.0 | |
| | 1455 | 11 | 7.45 | 1134 | 1 | 1.94 | 22.36 | 0.57 | 0.740 | 26.9 | |
| | 1458 | 14 | 7.45 | 1129 | 1 | 1.90 | 22.32 | 0.56 | 0.737 | 23.8 | |
| | 1501 | 17 | 7.46 | 1128 | 1 | 1.87 | 22.36 | 0.56 | 0.734 | 23.0 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (4/10/2008) | | | 7.62 | 703 | 2.9 | 3.83 | 22.7 | | 450 | 174 | |
| Are measurements consistent with previous? | | | Y | N | Y | Y | NA | — | N | Y | |

Sample Time 1502 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 7/4/5/11

Sampler RJ Field Team 1 Field Conditions Warm/Windy

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**Well/Sample Number** 25-14-011-Q2 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1610 Purge Method ____ Ded. Pump Y

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1615 | 5 | 7.90 | 0.941 | 1 | 0.28 | 23.47 | 0.47 | 0.615 | 32.1 | |
| ↓ | 1618 | 8 | 7.96 | 0.949 | 1 | 0.27 | 23.49 | 0.47 | 0.617 | 30.1 | |
| ↓ | 1621 | 11 | 7.96 | 0.952 | 1 | 0.27 | 23.51 | 0.47 | 0.618 | 29.0 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/10/2011) | 7.73 | 898 | 1 | 0.93 | 22.31 | 0.044 | 585 | 64.9 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1622 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
Date 4/6/11
Page 1 of

**Well/Sample Number** 25-17-011-Q2 **QC Sample ID** NA QC Sample Time
Purge Start Time 1545 Purge Method Dynestic Ded. Pump
Flow Cell (Y) N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1550 | 5 | 7.51 | 640 | 1 | 4.68 | 21.35 | 0.31 | 0.416 | 56.1 | |
| — | 1553 | 8 | 7.50 | 634 | 1 | 4.64 | 21.51 | 0.31 | 0.412 | 60.2 | |
| — | 1556 | 11 | 7.52 | 635 | 1 | 4.60 | 21.54 | 0.31 | 0.413 | 61.1 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | NA | NA | Y | |
| Previous Field measurement (2/3/2011) | | | 7.89 | 642 | 8 | 3.12 | 21.02 | 0.032 | 415 | 36.9 | |
| Are measurements consistent with previous? | | | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1557 Sample Location: pump tubing ____ well port ____ spigot Y bailer ____ other ____
Comments: Double Filter POSI NTU = 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____
Field measured confirmation of Well Depth (ft btoc ): ____
WD (Well Depth - from database) ft btoc ____
SWH (Standing Water Height) = WD-Initial Depth ____
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____
One Casing Volume = D*SWH ____
Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green 0 **Odor:** none, sulphur, organic, other 0 **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand 0

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler E.J Field Team 1 Field Conditions

Page ____ of ____

**Well/Sample Number** 26-49-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1802 Purge Method Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) N/A Purge Rate (gpm)/(mLpm) 4

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1807 | 5 | 7.59 | 1082 | 1 | 4.61 | 22.07 | 0.54 | 0.705 | 44.0 | |
| | 1810 | 8 | 7.58 | 1088 | 1 | 4.55 | 22.08 | 0.54 | 0.707 | 41.0 | |
| | 1813 | 11 | 7.58 | 1090 | 1 | 4.62 | 22.09 | 0.54 | 0.707 | 47.1 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when > 10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/24/2011) | 7.35 | 1,073 | 2 | 4.11 | 15 | 0.053 | 688 | 137.6 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1814 Sample Location: pump tubing ____ well cort ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity =

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler RC Field Team 1 Field Conditions Cloudy

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**Well/Sample Number** 26-50-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1346 Purge Method Domestic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1351 | 5 | 7.41 | 1352 | 1 | 4.94 | 22.05 | 0.68 | 0.876 | 74.1 | |
| — | 1354 | 8 | 7.44 | 1355 | 1 | 4.58 | 22.02 | 0.68 | 0.882 | 79.5 | |
| — | 1357 | 11 | 7.50 | 1355 | 1 | 4.49 | 22.02 | 0.68 | 0.880 | 80.2 | |
| — | 1400 | 14 | 7.49 | 1352 | 2 | 4.42 | 22.01 | 0.68 | 0.878 | 81.1 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (1/26/2011) | 7.65 | 1,111 | 1 | 7.16 | 22.12 | 0.056 | 737 | 50.3 |
| Are measurements consistent with previous? | Y | Y | Y | N | NA | Y | Y | Y |

Sample Time 1401 Sample Location: pump tubing ___ well port ___ spigot X bailer ___ other ___

Comments: Double Filter Post NTU=1

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (6 in)

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler RI Field Team 1 Field Conditions Clear/Windy

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**Well/Sample Number** 26-65-011-Q2 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1645 Purge Method ____ Ded. Pump Y

Flow Cell: (Y) N Min. Purge Volume (gal)(L) 4 NA Purge Rate (gpm)(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1650 | 5 | 7.37 | 2311 | 1 | 0.30 | 22.64 | 1.18 | 1499 | 41.7 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (3/3/2011) | 7.34 | 2,290 | 1 | 0.05 | 22 | 0.126 | 1,679 | 4.8 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1650 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc (296)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (8 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ____ |
| | | | | Time of Reinstallation ____ |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/6/11

Sampler RJ Field Team 1 Field Conditions Windy

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**Well/Sample Number** 26-66-011-Q2 **QC Sample ID** 04-04-011-Q2 QC Sample Time 1640

Purge Start Time 1630 Purge Method ____ Ded. Pump Y

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) ____ Purge Rate (lpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1635 | 5 | 7.70 | 1194 | 1 | 1.73 | 22.38 | 0.59 | 0.776 | 26.1 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (3/3/2011) | 7.44 | 1,240 | 1 | 0.2 | 22.2 | 0.066 | 846 | -35.6 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1635 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filtered Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (305)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (10 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu. Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
Date
Page ____ of ____

**Well/Sample Number** 27-03-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1333 Purge Method Dometic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | EhORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1338 | 5 | 7.62 | 948 | 1 | 5.41 | 20.57 | 0.47 | 0.614 | 37.8 | |
| — | 1341 | 8 | 7.50 | 945 | 1 | 5.10 | 20.69 | 0.47 | 0.614 | 30.2 | |
| — | 1344 | 11 | 7.48 | 944 | 1 | 5.03 | 20.70 | 0.47 | 0.614 | 26.3 | |
| — | 1347 | 14 | 7.47 | 943 | 1 | 4.93 | 20.72 | 0.47 | 0.614 | 25.2 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when > 10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | N |
| Previous Field measurement (1/24/2011) | 7.59 | 833 | 1 | 4.5 | 22.14 | 0.041 | 542 | 37.4 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1348 Sample Location: pump tubing ____ well port ____ spigot Y bailer ____ other ____

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (143)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RD Field Team 1 Field Conditions Clear

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**Well/Sample Number** 27-07-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1045 Purge Method Domestic Ded. Pump

Flow Cell (Y) N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1050 | 5 | 7.34 | 1448 | 3 | 4.48 | 21.36 | 0.74 | 0.945 | 126.9 | |
| — | 1053 | 8 | 7.33 | 1420 | 37 | 4.30 | 20.75 | 0.71 | 0.918 | 126.4 | |
| — | 1056 | 11 | 7.35 | 1461 | 43 | 4.42 | 20.88 | 0.73 | 0.946 | 128.0 | |
| — | 1059 | 14 | 7.37 | 1454 | 67 | 4.51 | 20.95 | 0.73 | 0.946 | 131.2 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | N | Y | NA | NA | NA | Y |
| Previous Field measurement (1/5/2011) | 7.01 | 1,478 | 3 | 3.01 | 21.5 | 0.074 | 962,100 | 124.1 |
| Are measurements consistent with previous? | Y | Y | N | Y | NA | Y | Y | Y |

Sample Time 1100 Sample Location: pump tubing ___ well port ___ spigot X bailer ___ other ___

Comments: Double Filter Pose NTU = 1

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc ): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ___ Time of Reinstallation ___ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions

**Sampling Event** 2011-DOM-011-Q2
Date 4/7/11
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**Well/Sample Number** 27-08-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1120 Purge Method Domestic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1125 | 5 | 7.31 | 2048 | 1 | 6.56 | 20.98 | 1.05 | 1.333 | 115.2 | |
| — | 1128 | 8 | 7.21 | 2057 | 1 | 5.83 | 20.96 | 1.05 | 1.337 | 110.9 | |
| — | 1131 | 11 | 7.21 | 2059 | 1 | 5.80 | 21.03 | 1.05 | 1.339 | 108.6 | |
| — | 1134 | 14 | 7.22 | 2060 | 1 | 5.79 | 21.01 | 1.05 | 1.339 | 107.5 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (2/7/2011) | 7.13 | 2,610 | 3 | 3.53 | 22.49 | 0.135 | 1,696 | 93.9 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1136 Sample Location: pump tubing ___ well port ___ spigot Y bailer ___ other ___

Comments: Double Filter Post NTU < 1

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal ___ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ___ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RP Field Team 1 Field Conditions Clear

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**Well/Sample Number** 27-16-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1540 Purge Method Peristaltic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1545 | 5 | 7.28 | 1307 | 1 | 5.00 | 20.65 | 0.65 | 0.850 | -2.6 | |
| — | 1548 | 8 | 7.35 | 1306 | 1 | 4.95 | 20.56 | 0.65 | 0.849 | -8.0 | |
| — | 1551 | 11 | 7.35 | 1309 | 1 | 4.90 | 20.59 | 0.66 | 0.851 | -10.1 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (3/3/2011) | 7.17 | 1,412 | 2 | 5.52 | 22.03 | 0.071 | 919 | 41 |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1552 Sample Location: pump tubing ____ well port ____ spigot Y bailer ____ other ____

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405979.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/5/11

Sampler RP Field Team 1 Field Conditions Clear

Page 1 of 1

**Well/Sample Number** 27-18-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1440 Purge Method Domestic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1445 | 5 | 7.52 | 731 | 1 | 3.02 | 20.72 | 0.36 | 0.475 | -10.1 | |
| — | 1448 | 8 | 7.50 | 722 | 1 | 2.88 | 21.44 | 0.35 | 0.467 | -15.2 | |
| — | 1451 | 11 | 7.55 | 718 | 1 | 2.62 | 21.50 | 0.35 | 0.465 | -18.3 | |
| — | 1454 | 14 | 7.54 | 715 | 2 | 2.60 | 21.54 | 0.35 | 0.462 | -20.2 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (3/4/2011) | 7.78 | 657 | 4 | 4.21 | 22.42 | 0.032 | 427 | 4.3 |
| Are measurements consistant with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1455 Sample Location: pump tubing ___ well port ___ spigot X bailer ___ other ___

Comments: Double Filter Pass MTA = 1

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc ): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ___ Time of Reinstallation ___ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 7/11/11

Sampler _____ Field Team 1 Field Conditions _____ Page _____ of _____

**Well/Sample Number** 27-21-011-Q2 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 1330 Purge Method _____ Ded. Pump _____

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) N/A Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1335 | 5 | 8.26 | 652 | 1 | 7.18 | 19.14 | 0.32 | 0.424 | 65.5 | |
| ↓ | 1338 | 8 | 8.20 | 652 | 1 | 7.01 | 19.20 | 0.32 | 0.424 | 67.1 | |
| ↓ | 1341 | 11 | 8.19 | 653 | 1 | 7.00 | 19.22 | 0.32 | 0.424 | 69.1 | |
| | | | | | | | | | | | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/24/2011) | 7.55 | 307 | 1 | 4.02 | 21.8 | 0.015 | 193 | 79.1 |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1342 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): N/A

Field measured confirmation of Well Depth (ft btoc ): _____

WD (Well Depth - from database) ft btoc (139)

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (6 in)

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal _____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RP Field Team 1 Field Conditions Clear

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**Well/Sample Number** 27-26-011-Q2

**QC Sample ID** NA

QC Sample Time

Purge Start Time 1242

Purge Method Domestic Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L)

Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1247 | 5 | 8.01 | 1060 | 1 | 6.96 | 20.74 | 0.52 | 0.680 | 22.1 | |
| — | 1250 | 8 | 7.95 | 978 | 2 | 6.64 | 20.95 | 0.48 | 0.634 | 19.2 | |
| — | 1253 | 11 | 7.90 | 1017 | 3 | 6.80 | 20.71 | 0.49 | 0.648 | 15.3 | |
| — | 1256 | 14 | 7.89 | 995 | 3 | 6.69 | 20.80 | 0.48 | 0.628 | 13.2 | |
| | | | | | | | | | | | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (3/4/2011) | 7.7 | 900 | 1 | 5.49 | 22 | 0.042 | 631 | 75.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | | | |

Sample Time 1257 Sample Location: pump tubing ✓ well port ✓ spigot ✓ bailer other

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC):

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
Date 4/5/11
Page 1 of 1

**Well/Sample Number** 27-27-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1201 Purge Method Domestic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1209 | 5 | 7.60 | 1637 | 1 | 4.58 | 20.94 | 0.83 | 1.064 | 10.5 | |
| — | 1212 | 8 | 7.54 | 1628 | 1 | 4.57 | 20.52 | 0.82 | 1.057 | 15.6 | |
| — | 1215 | 11 | 7.50 | 1581 | 1 | 4.37 | 21.00 | 0.80 | 1.026 | 19.4 | |
| — | 1218 | 14 | 7.49 | 1572 | 1 | 4.35 | 21.02 | 0.80 | 1.023 | 20.6 | |
| — | 1221 | 17 | 7.48 | 1570 | 1 | 4.30 | 21.08 | 0.79 | 1.019 | 25.4 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (3/4/2011) | 7.22 | 1,560 | 2 | 3.15 | 22.3 | 0.083 | 1,072 | 87.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1222 Sample Location: pump tubing ___ well port ___ spigot X bailer ___ other ___

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc ): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ___ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ___ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/4/11

Sampler RJ Field Team 1 Field Conditions Windy

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**Well/Sample Number** 27-36-011-Q2

**QC Sample ID** NA

QC Sample Time

Purge Start Time 1356

Purge Method

Ded. Pump Y

Flow Cell (Y) N

Min. Purge Volume (gal)/(L) N/A

Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons/liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1359 | 5 | 7.58 | 671 | 1 | 5.22 | 21.85 | 0.33 | 0.446 | 75.6 | |
| ↓ | 1402 | 8 | 7.56 | 677 | 1 | 4.99 | 21.85 | 0.33 | 0.446 | 77.1 | |
| ↓ | 1405 | 11 | 7.56 | 679 | 1 | 5.02 | 21.84 | 0.33 | 0.446 | 79.1 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when > 10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | | | | | NA | | | |
| Previous Field measurement (1/24/2011) | 7.55 | 690 | 1 | 4.73 | 21.5 | 0.034 | 443 | -65.3 |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1402 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): ____

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear/Windy

**Sampling Event** 2011-DOM-011-Q2
Date 4/7/11
Page 1 of 1

**Well/Sample Number** 27-38-011-Q2 **QC Sample ID** 04-05-011-Q2 QC Sample Time

Purge Start Time 1023 Purge Method Dedicated Ded. Pump 1050

Flow Cell: Y N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1028 | 5 | 7.65 | 990 | 1 | 6.76 | 22.01 | 0.49 | 0.644 | 130.2 | |
| — | 1031 | 8 | 7.67 | 950 | 1 | 6.18 | 21.97 | 0.47 | 0.618 | 122.1 | |
| — | 1034 | 11 | 7.67 | 969 | 1 | 5.78 | 21.93 | 0.48 | 0.631 | 119.1 | |
| — | 1037 | 14 | 7.67 | 990 | 1 | 5.69 | 21.95 | 0.50 | 0.656 | 118.6 | |
| — | 1040 | 17 | 7.67 | 995 | 1 | 5.75 | 21.94 | 0.54 | 0.714 | 118.1 | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (2/7/2011) | 7.69 | 885 | 3 | 3.22 | 22.06 | 0.042 | 562 | 109.7 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1041 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal ____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/7/11

Sampler RP Field Team 1 Field Conditions Clear/windy Page 1 of 1

**Well/Sample Number** 27-39-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1056 Purge Method Domestic Ded. Pump

Flow Cell (Y) N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1101 | 5 | 7.77 | 990 | 1 | 6.55 | 21.77 | 0.49 | 0.644 | 35.2 | |
| — | 1104 | 8 | 7.76 | 989 | 1 | 6.48 | 21.69 | 0.49 | 0.642 | 29.3 | |
| — | 1107 | 11 | 7.75 | 985 | 1 | 6.36 | 21.74 | 0.49 | 0.640 | 22.1 | |
| — | 1110 | 14 | 7.75 | 984 | 1 | 6.30 | 21.71 | 0.49 | 0.640 | 21.9 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (2/7/2011) | 7.71 | 926 | 1 | 4.24 | 21.68 | 0.045 | 602 | 58.6 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1111 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/7/11

Sampler RC Field Team 1 Field Conditions Clear/windy

Page 1 of 1

**Well/Sample Number** 27-40-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1145 Purge Method Domestic Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1150 | 5 | 7.33 | 2068 | 1 | 6.02 | 21.74 | 1.06 | 1.345 | 29.8 | |
| — | 1153 | 8 | 7.33 | 2070 | 1 | 5.88 | 21.77 | 1.06 | 1.346 | 31.5 | |
| — | 1156 | 11 | 7.33 | 2075 | 1 | 5.91 | 21.82 | 1.06 | 1.348 | 32.0 | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (2/7/2011) | 7.35 | 1,930 | 1 | 4.65 | 22.12 | 0.098 | 1,254 | 16 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1157 Sample Location: pump tubing ___ well port ___ spigot X bailer ___ other ___

Comments: Double Filter Post Work

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc ): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ___ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ___ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 9/9/11

Sampler RJS Field Team 1 Field Conditions Sunny

Page 1 of 1

**Well/Sample Number** 27-42-011-Q2

**QC Sample ID** NA

QC Sample Time

Purge Start Time 1252

Purge Method – Ded. Pump Yes

Flow Cell (Y) / N

Min. Purge Volume (gal)/(L) – Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| – | 1257 | 5 | 7.65 | 917 | 2 | 2.11 | 22.44 | 0.45 | 0.595 | 121.6 | |
| – | 1300 | 8 | 7.62 | 918 | 1 | 2.01 | 22.39 | 0.45 | 0.598 | 119.2 | |
| – | 1303 | 11 | 7.61 | 919 | 1 | 1.99 | 22.38 | 0.45 | 0.599 | 118.1 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (3/3/2011) | 7.59 | 902 | 3 | 1.91 | 22.14 | 0.044 | 588 | -2.9 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | X | N | Y, ORP Cal = Good |

Sample Time 1304 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: 2X filter = 1NTU

Initial Depth to Water (ft BTOC): ____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler [illegible] Field Team 1 Field Conditions

**Sampling Event** 2011-DOM-011-Q2
Date 4/7/11
Page 1 of 1

**Well/Sample Number** 27-43-011-Q2 **QC Sample ID** NA QC Sample Time
Purge Start Time 1322 Purge Method – Ded. Pump
Flow Cell Y / N Min. Purge Volume (gal)/(L) – Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / Liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1327 | 5 | 6.99 | 1101 | 1 | 6.58 | 22.24 | 0.63 | 0.725 | 204.6 | |
| — | 1330 | 8 | 6.99 | 1034 | 1 | 6.53 | 22.17 | 0.63 | 0.721 | 203.1 | |
| — | 1333 | 11 | 6.98 | 1003 | 1 | 6.52 | 22.15 | 0.63 | 0.719 | 200.8 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (2/19/2008) | 6.95 | 987 | 4.2 | 8.24 | 22.07 | — | 620 | 234 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | — | Y | Y |

Sample Time 1334 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments:
2X Filter = 1NTU

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____
WD (Well Depth - from database) ft btoc ____
SWH (Standing Water Height) = WD-Initial Depth ____
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____
One Casing Volume = D*SWH ____
Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405579.GW.FW.SW
Sampler DB Field Team 1 Field Conditions Windy

**Sampling Event** 2011-DOM-011-Q2
Date 4/4/11
Page 1 of 1

**Well/Sample Number** 27-48-011-Q2 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1430 Purge Method — Ded. Pump Yes

Flow Cell: Y N Min. Purge Volume (gal)/(L) — Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1435 | 5 | 7.61 | 767 | 1 | 5.45 | 22.14 | 0.38 | 0.499 | 133.6 | |
| — | 1438 | 8 | 7.54 | 765 | 1 | 5.67 | 22.13 | 0.38 | 0.501 | 130.1 | |
| — | 1441 | 11 | 7.57 | 766 | 1 | 5.69 | 22.11 | 0.38 | 0.503 | 127.2 | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement () | | 0 | | | | | 0 | |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1442 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments:
2X filter = 1NTU

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ____ |
| | | | | Time of Reinstallation ____ |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/14/11

Sampler BB Field Team 1 Field Conditions Windy

Page 1 of 1

**Well/Sample Number** 27-49-011-Q2

**QC Sample ID** NA

QC Sample Time

Purge Start Time 1412

Purge Method —

Ded. Pump yes

Flow Cell (Y) N

Min. Purge Volume (gal)/(L) —

Purge Rate (dpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1417 | 5 | 7.66 | 789 | 1 | 7.66 | 22.31 | 0.39 | 0.517 | 141.3 | |
| — | 1420 | 8 | 7.68 | 769 | 1 | 7.59 | 22.33 | 0.37 | 0.491 | 143.2 | |
| — | 1423 | 11 | 7.69 | 766 | 1 | 7.57 | 22.34 | 0.36 | 0.488 | 145.1 | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement 0 | | 0 | | | | | 0 | |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1424 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: 2x Filter = 1 NTU

Initial Depth to Water (ft BTOC): ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler BB Field Team 1 Field Conditions Windy

**Sampling Event** 2011-DOM-011-Q2
Date 4/4/11
Page 1 of 1

**Well/Sample Number** 28-17-011-Q2 **QC Sample ID** NA QC Sample Time –
Purge Start Time 1215 Purge Method – Ded. Pump Yes
Flow Cell (Y) N Min. Purge Volume (gal)/(L) – Purge Rate (cpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| – | 1220 | 5 | 7.49 | 882 | 1 | ~~882~~ 1.77 | 31.89 | 0.43 | 0.574 | 133.0 | ✓✓ Temp. |
| – | 1223 | 8 | 7.47 | 884 | 1 | 1.73 | 32.25 | 0.43 | 0.575 | 129.6 | |
| – | 1224 | 11 | 7.47 | 886 | 1 | 1.70 | 32.29 | 0.43 | 0.575 | 128.5 | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement () | | 0 | | | | | 0 | |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1225 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: 2X Filter = 1 NTU Dog in yard tied up

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** ~~2011-SOM-011-Q2~~ 2011-GMP-010 B-Q2
**Date** 4/7/11

Sampler BB Field Team 1 Field Conditions WINDY

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**Well/Sample Number** [redacted] FW-01-010B-Q2 **QC Sample ID** NA EB-03-010-Q2 QC Sample Time 1130

Purge Start Time 1142 Purge Method Temp RF2 Ded. Pump

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 112.5 Purge Rate (gpm)/(mLpm) 4 gpm

| Water Level | Time | Vol. Purged gallons/liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 74.25 | 1147 | 20 | 7.30 | 426 | 57 | 3.87 | 21.15 | 0.20 | 0.277 | -11.8 | |
| 74.25 | 1152 | 40 | 7.29 | 430 | 31 | 4.96 | 21.12 | 0.21 | 0.279 | -21.6 | |
| 24.26 | 1157 | 60 | 7.28 | 430 | 22 | 4.83 | 21.10 | 0.21 | 0.280 | -25.6 | |
| 24.26 | 1202 | 80 | 7.28 | 432 | 18 | 4.91 | 21.11 | 0.21 | 0.281 | -24.5 | |
| 24.26 | 1207 | 100 | 7.27 | 432 | 17 | 4.94 | 21.11 | 0.21 | 0.281 | -28.1 | |
| 24.26 | 1212 | 120 | 7.27 | 432 | 16 | 5.03 | 21.10 | 0.21 | 0.281 | -26.7 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (6/20/2007) | | | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 1213 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: ~~2011-BB~~ BB
Very Windy - Pump Slowed for Sampling

Initial Depth to Water (ft BTOC): 74.21 Measure Point: Well TOC (Steel Casing) WATER LEVEL METER SERIAL NUMBER: 24622

Field measured confirmation of Well Depth (ft btoc): 117.31

WD (Well Depth - from database) ft btoc -

SWH (Standing Water Height) = WD-Initial Depth 43.10

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 8" = 2.61

One Casing Volume = D*SWH 112.5

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal — |
| — | — | — | — | Time of Reinstallation — |

Comments: —

**Color:** (clear), grey, yellow, brown, black, cloudy, green **Odor:** (none), sulphur, organic, other **Solids:** (Trace), Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOW-011-Q2
Date 4/8/11

Sampler RJ Field Team 1 Field Conditions Windy

Page 1 of 1

**Well/Sample Number** [redacted] 23-30-011-Q2 QC Sample ID ~~NA~~ 04-02-011-Q2 QC Sample Time 1030

Purge Start Time 1010 Purge Method _____ Ded. Pump _____

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1015 | 5 | 6.77 | 6177 | 10 | 4.93 | 21.85 | 3.34 | 3.974 | 102.3 | Purge began turbid, cleared |
| | 1018 | 8 | 6.77 | 6116 | 4 | 4.23 | 21.91 | 3.33 | 3.976 | 95.2 | up quickly |
| | 1021 | 11 | 6.78 | 6121 | 3 | 4.24 | 21.95 | 3.34 | 3.979 | 94.2 | |
| | 1024 | 14 | 6.78 | 6124 | 3 | 4.21 | 21.96 | 3.34 | 3.979 | 93.7 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (6/20/2007) | — | 0 | — | — | — | — | 0 | — | |
| Are measurements consistent with previous? | — | — | — | — | NA | — | — | — | |

Sample Time 1025 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 1 NTU
Carmella moved to Virginia - Contact richard for sampling @ 760-887-3580

Initial Depth to Water (ft BTOC): NA

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Field measured confirmation of Well Depth (ft btoc): _____

WD (Well Depth - from database) ft btoc _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/8/11

Sampler RJ Field Team 1 Field Conditions Clear/windy

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**Well/Sample Number** [redacted] 22-16

**QC Sample ID** NA

QC Sample Time ____

Purge Start Time 1224

Purge Method ____ Ded. Pump Y

Flow Cell (Y) / N

Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged (gallons / liters) | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1229 | 5 | 7.96 | 1245 | 1 | 4.82 | 21.43 | 0.62 | 0.809 | 59.1 | |
| ↓ | 1232 | 8 | 7.94 | 1244 | 1 | 4.80 | 21.50 | 0.62 | 0.808 | 61.0 | |
| ↓ | 1235 | 11 | 7.93 | 1244 | 1 | 4.81 | 21.54 | 0.62 | 0.808 | 61.4 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (6/20/2007) | | | — | 0 | — | — | — | — | 0 | — | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 1236 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - 0.45 Filter turbidity - 1 NTU

Initial Depth to Water (ft BTOC): nd

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.65, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/7/11

Sampler RJ Field Team 1 Field Conditions

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**Well/Sample Number** [redacted] EX-25-010-QL **QC Sample ID** NA QC Sample Time

Purge Start Time 1130 Purge Method Ded. Pump Y

Flow Cell: Y / N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1135 | 5 | 7.17 | 2821 | 1 | 4.82 | 21.45 | 1.46 | 1.380 | 72.5 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | | | | | NA | | | | |
| Previous Field measurement (6/20/2007) | | | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 1135 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 2/4/11

Sampler KS Field Team 1 Field Conditions

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**Well/Sample Number** [redacted] 22-31 **QC Sample ID** NA QC Sample Time

Purge Start Time McAllister West Purge Method Ded. Pump Y

Flow Cell: Y N Min. Purge Volume (gal)/(L) N/A Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1247 | 5 | 8.07 | 1192 | 1 | 7.30 | 21.39 | 0.59 | 0.775 | 62.2 | |
| | 1250 | 8 | 8.06 | 1194 | 1 | 7.41 | 21.39 | 0.59 | 0.775 | 63.7 | |
| | 1253 | 11 | 8.06 | 1195 | 1 | 7.32 | 21.40 | 0.59 | 0.775 | 67.1 | |
| | | | | | | | | | | | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when > 10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (6/20/2007) | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | NA | | | | |

Sample Time 1254 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Western most well on McAllister property Double Filtered - Filter Tub. = 1
34.948201, -117.172964

Initial Depth to Water (ft BTOC): N/A

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | |
| Time | Initial DTW | Time | Final DTW | Time of Removal |
| | | | | Time of Reinstallation |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405579.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/5/11

Sampler RP Field Team 1 Field Conditions Clear

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**Well/Sample Number** [redacted] 27-46-011-02 **QC Sample ID** NA QC Sample Time

Purge Start Time 1400 Purge Method Domestic Ded. Pump

Flow Cell: (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1405 | 5 | 7.63 | 746 | 1 | 5.43 | 20.87 | 0.37 | 0.488 | 40.6 | |
| — | 1408 | 8 | 7.64 | 750 | 1 | 5.25 | 20.99 | 0.37 | 0.487 | 38.2 | |
| — | 1411 | 11 | 7.67 | 727 | 1 | 5.06 | 21.06 | 0.35 | 0.470 | 30.1 | |
| — | 1414 | 14 | 7.68 | 735 | 1 | 5.07 | 21.13 | 0.35 | 0.468 | 30.3 | |
| — | 1417 | 17 | 7.69 | 736 | 1 | 5.08 | 21.13 | 0.35 | 0.468 | 29.7 | |
| | | | | | | | | | | | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | NA | NA | Y | |
| Previous Field measurement (6/20/2007) | | | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 1418 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/4/11

Sampler BB Field Team 1 Field Conditions Windy

Page 1 of 1

**Well/Sample Number** 28-28-011-Q2 **QC Sample ID** NA QC Sample Time —

Purge Start Time 1130 Purge Method — Ded. Pump Yes

Flow Cell (Y) N Min. Purge Volume (gal)/(L) — Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1135 | 5 | 7.61 | 648 | 1 | 4.25 | 22.20 | 0.31 | 0.421 | 165.0 | |
| — | 1138 | 8 | 7.58 | 648 | 1 | 4.13 | 22.34 | 0.32 | 0.421 | 144.3 | |
| — | 1141 | 11 | 7.53 | 649 | 1 | 4.06 | 22.36 | 0.32 | 0.422 | 140.1 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement 0 | | 0 | | | | | 0 | |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1142 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: 2X Filter = 1 NTU

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/7/11

Sampler RJ Field Team 1 Field Conditions WINDY

Page ____ of ____

**Well/Sample Number** 34-01-011-Q2 **QC Sample ID** 04-06-011-Q2 QC Sample Time ____

Purge Start Time 1630 Purge Method NB Ded. Pump Y

Flow Cell Y / N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1635 | 5 | 7.81 | 438 | 1 | 0.87 | 22.31 | 0.21 | 0.285 | 35.6 | |
| ↓ | 1638 | 8 | 7.80 | 436 | 1 | 0.87 | 22.40 | 0.21 | 0.285 | 34.1 | |
| ↓ | 1641 | 11 | 7.80 | 433 | 1 | 0.87 | 22.41 | 0.21 | 0.285 | 33.2 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/24/2011) | 7.72 | 220 | 2 | 0.1 | 22.7 | 0.01 | 141 | -138.6 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1642 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 0 NTU

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (8 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

**If Transducer**

| Initial DTW / Before Removal | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RJ Field Team 1 Field Conditions Windy

**Sampling Event** 2011-DOM-011-Q2
Date 4/7/11
Page ____ of ____

**Well/Sample Number** 34-34-011-Q2 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1610 Purge Method Ded. Ded. Pump Y

Flow Cell (Y)/ N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) NA

| Water Level | Time | Vol. Purged (gallons) liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1605 | NA | 8.02 | 443 | 2 | 1.06 | 21.28 | 0.21 | 0.290 | 29.6 | |
| ↓ | 1618 | ↓ | 7.99 | 434 | 2 | 1.04 | 21.29 | 0.21 | 0.287 | 27.2 | |
| ↓ | 1621 | ↓ | 7.97 | 437 | 2 | 1.00 | 21.37 | 0.21 | 0.286 | 25.1 | |
| | | | | | | | | | | | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/24/2011) | 7.8 | 420 | 3 | 7.22 FQ | 23.1 | 0.02 | 274 | -100.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1622 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ✓ other ____

Comments: Double Filtered - Post Filter Turbidity
Flowed into bucket for parameters

Initial Depth to Water (ft BTOC): NA Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

**If Transducer**

| Initial DTW / Before Removal | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/4/11

Sampler [illegible] Field Team 1 Field Conditions Clear

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**Well/Sample Number** 35-04-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1535 Purge Method Domestic Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) \

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1540 | 5 | 7.70 | 454 | 1 | 1.01 | 21.93 | 0.22 | 0.295 | -62.2 | |
| — | 1543 | 8 | 7.69 | 453 | 1 | 0.98 | 22.30 | 0.22 | 0.294 | -67.0 | |
| — | 1546 | 11 | 7.60 | 450 | 1 | 0.95 | 22.40 | 0.22 | 0.293 | -75.0 | |
| — | 1549 | 14 | 7.61 | 449 | 1 | 0.94 | 22.41 | 0.22 | 0.293 | -76.9 | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (1/24/2011) | 7.9 | 390 | 1 | 0.71 | 22.52 | 0.019 | 253 | 29 |
| Are measurements consistent with previous? | | Y | Y | Y | NA | Y | Y | N |

Sample Time 1550 Sample Location: pump tubing ___ well port ___ spigot X bailer ___ other ___

Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): ___

Field measured confirmation of Well Depth (ft btoc ): ___

WD (Well Depth - from database) ft btoc (200)

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (8 in)

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

Measure Point: ~~Well TOC~~ Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

**If Transducer**

| Initial DTW / Before Removal | | Approx. 5 min After Reinstallation | | Time of Removal |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/6/11

Sampler RP Field Team 1 Field Conditions Cloudy

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**Well/Sample Number** BGS-46-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1055 Purge Method Domestic Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1100 | 5 | 7.95 | 406 | 13 | 4.95 | 20.65 | 0.19 | 0.263 | -22.1 | |
| — | 1103 | 8 | 7.94 | 409 | 17 | 4.80 | 21.00 | 0.20 | 0.267 | -30.2 | |
| — | 1106 | 11 | 7.88 | 414 | 18 | 4.79 | 21.14 | 0.20 | 0.269 | -34.2 | |
| — | 1109 | 14 | 7.85 | 415 | 18 | 4.78 | 21.17 | 0.20 | 0.270 | -35.9 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (2/9/2011) | 7.96 | 391 | 1 | 4.47 | 21.71 | 0.018 | 248 | 146.7 |
| Are measurements consistent with previous? | Y | Y | N | Y | NA | Y | Y | N |

Sample Time 1110 Sample Location: pump tubing ___ well port ___ spigot Y bailer ___ other ___

Comments: Double Filter Rust NTU = 4

Initial Depth to Water (ft BTOC): ___ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ___

Field measured confirmation of Well Depth (ft btoc): ___

WD (Well Depth - from database) ft btoc ___

SWH (Standing Water Height) = WD-Initial Depth ___

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ___

One Casing Volume = D*SWH ___

Three Casing Volumes = ___

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal ___ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ___ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405579.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/6/11

Sampler RI Field Team 1 Field Conditions Warm

Page ____ of ____

**Well/Sample Number** MW-40-011-Q2 **QC Sample ID** NA QC Sample Time ____

Purge Start Time 1450 Purge Method Temp Ded. Pump ____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 28.7 Purge Rate (gpm)/(mLpm) 1.5

**Collect Equipment Blank: MW-40-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 93.31 | 1454 | 6 | 7.82 | 449 | 10 | 1.74 | 22.74 | 0.22 | 0.291 | 34.5 | |
| 93.31 | 1458 | 12 | 7.75 | 446 | 6 | 1.23 | 23.20 | 0.21 | 0.290 | 32.9 | |
| 93.31 | 1502 | 18 | 7.73 | 446 | 4 | 1.14 | 23.10 | 0.21 | 0.289 | 32.2 | |
| 93.31 | 1506 | 24 | 7.72 | 444 | 3 | 1.10 | 23.10 | 0.21 | 0.289 | 31.9 | |
| 93.31 | 1510 | 30 | 7.72 | 445 | 3 | 1.09 | 23.09 | 0.21 | 0.289 | 30.4 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/26/2011) | 6.15 | 442 | 4 | 0.94 | 22.7 | 0.021 | 287 | 50.9 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1511 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered – Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): 93.16 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 29437

Field measured confirmation of Well Depth (ft btoc): 137.30

WD (Well Depth - from database) ft btoc (135.2)

SWH (Standing Water Height) = WD-Initial Depth 44.14

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 28.7

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal ____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/7/11

Sampler EJ Field Team 1 Field Conditions WINDY

Page 1 of 1

**Well/Sample Number** MW-44A-011-Q2

**QC Sample ID** NA MW-44A-011-Q2-EB **QC Sample Time** 1530

Purge Start Time 1540 Purge Method Temp Ded. Pump N

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 5.7 Purge Rate (gpm)/(mLpm) 0.5

**Collect Equipment Blank: MW-44A-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 98.02 | 1544 | 2 | 7.52 | 1032 | 7 | 8.39 | 22.72 | 0.51 | 0.670 | 50.9 | |
| 98.02 | 1548 | 4 | 7.52 | 1029 | 4 | 8.37 | 23.03 | 0.51 | 0.669 | 51.4 | |
| 98.02 | 1552 | 6 | 7.51 | 1027 | 2 | 8.30 | 23.07 | 0.51 | 0.668 | 51.5 | |
| 98.02 | 1556 | 8 | 7.51 | 1029 | 2 | 8.30 | 23.07 | 0.51 | 0.669 | 51.6 | |
| 98.02 | 1600 | 10 | 7.51 | 1029 | 2 | 8.31 | 23.08 | 0.51 | 0.669 | 51.5 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/25/2011) | 7.32 | 1,128 | 2 | 7.13 | 24 | 0.056 | 0.734 | 52.8 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1601 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): 97.89 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): 106.57

WD (Well Depth - from database) ft btoc (104.3)

SWH (Standing Water Height) = WD-Initial Depth 8.68

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 5.7

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal ____ |
| | | | | Time of Reinstallation ____ |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
Date 4/7/11

Sampler RS Field Team 1 Field Conditions

Page of

**Well/Sample Number** MW-44B-011-Q2

**QC Sample ID** NA MW-44B-011-Q2-EB QC Sample Time 1450

Purge Start Time 1500

Purge Method Temp Ded. Pump N

Flow Cell (Y) N

Min. Purge Volume (gal)/(L) 14.8 Purge Rate (gpm)/(mLpm) 1

**Collect Equipment Blank: MW-44B-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged (gallons) / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 97.49 | 1504 | 4 | 7.73 | 747 | 12 | 6.20 | 22.92 | 0.36 | 0.485 | 44.2 | |
| 97.49 | 1508 | 8 | 7.72 | 747 | 6 | 6.15 | 22.96 | 0.36 | 0.485 | 45.9 | |
| 97.50 | 1512 | 12 | 7.70 | 747 | 4 | 6.21 | 22.95 | 0.36 | 0.485 | 46.7 | |
| 97.50 | 1516 | 16 | 7.70 | 746 | 3 | 6.12 | 22.94 | 0.36 | 0.485 | 47.1 | |
| 97.50 | 1520 | 20 | 7.70 | 746 | 3 | 6.17 | 22.94 | 0.36 | 0.485 | 47.4 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/25/2011) | 7.52 | 732 | 2 | 5.53 | 23.4 | 0.036 | 0.475 | 70.7 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1521 Sample Location: pump tubing ✓ well port spigot bailer other

Comments: Double Filtered - Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): 97.38

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc): 120.09

WD (Well Depth - from database) ft btoc (118.2)

SWH (Standing Water Height) = WD-Initial Depth 22.71

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 14.8

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** Approx. 5 min After Reinstallation | | Time of Removal |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/4/11

Sampler LP Field Team 1 Field Conditions Clear

Page 1 of 1

**Well/Sample Number** MW-67A-011-Q2 **QC Sample ID** 04-08-011-Q2 QC Sample Time 1530

Purge Start Time 1450 Purge Method Temp Ded. Pump

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 2.1 Purge Rate (gpm)/(mLpm) 0.15

**Collect Equipment Blank: MW-67A-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 98.08 | 1454 | 0.60 | 7.41 | 502 | 10 | 6.72 | 21.11 | 0.24 | 0.327 | 54.6 | |
| 98.08 | 1458 | 1.20 | 7.32 | 485 | 8 | 5.50 | 23.30 | 0.23 | 0.315 | 19.9 | |
| 98.08 | 1502 | 1.80 | 7.28 | 482 | 10 | 5.45 | 23.31 | 0.23 | 0.314 | 19.9 | |
| 98.08 | 1506 | 2.40 | 7.25 | 482 | 10 | 5.60 | 23.31 | 0.23 | 0.314 | 22.2 | |
| 98.08 | 1510 | 3.00 | 7.25 | 483 | 10 | 5.55 | 23.32 | 0.23 | 0.314 | 27.4 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stabilize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (1/27/2011) | 7.61 | 428 | 4 | 5.92 | 22.8 | 0.021 | 279 | 159.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1511 Sample Location: pump tubing ____ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filter Post NTU = 1
MW-67A-011-Q2 EB @ 1440

Initial Depth to Water (ft BTOC): 98.06

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): 110.01

WD (Well Depth - from database) ft btoc (107.3)

SWH (Standing Water Height) = WD-Initial Depth 11.93

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH 2.1

Three Casing Volumes = N/A

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

# TEST EQUIPMENT CALIBRATION LOG

| PROJECT NAME HINKLEY, CA TII CH2MHILL | | | | PROJECT NUMBER 110404-1251 | | | |
|---|---|---|---|---|---|---|---|
| EQUIPMENT NAME | EQUIPMENT NUMBER | DATE/TIME OF TEST | STANDARDS USED | EQUIPMENT READING | CALIBRATED TO: OR WITHIN 10%: | TEMP. | INITIALS |
| YSI 556 | 07L100814 | 4/11/11 0911 | 7, 10, 4 pH 3900 uS | 7.01, 4.00, 10.09 3900 uS | Yes, Yes, Yes Yes | 15°C | |
| ↓ | ↓ | ↓ | 244.0 mV 100% D.O. | 244.0 mV 98.2 % | Yes Yes | ↓ | |
| YSI 556 | 06F1362AR | 4/7/11 0900 | pH 7, 10, 4 3900 uS | 7.00, 4.00, 10.00 3900 uS | Yes Yes | 20°C | |
| ↓ | ↓ | ↓ | 237.5 mV 100% D.O. | 237.5 mV 97.9% | Yes Yes | ↓ | |
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# TEST EQUIPMENT CALIBRATION LOG

| PROJECT NAME CH2MHill @ Hinkley | | | | PROJECT NUMBER 110404-RS1 | | | |
|---|---|---|---|---|---|---|---|
| EQUIPMENT NAME | EQUIPMENT NUMBER | DATE/TIME OF TEST | STANDARDS USED | EQUIPMENT READING | CALIBRATED TO: OR WITHIN 10%: | TEMP. °C | INITIALS |
| YSI 556 | 09D101246 | 4/4/11 0900 | pH 7 | 7.01 | Y | 15.82 | RP |
| | | | pH 10 | 9.98 | Y | 15.90 | RP |
| | | | pH 4 | 3.90 | Y | 15.90 | RP |
| | | | ORP 243 | 241.2 | Y | 16.22 | RP |
| | | | Conductivity 3900 | 3880 | Y | 16.01 | RP |
| | | | DO 100% | 90.2 | Y | 15.00 | RP |
| YSI 556 | 09D101246 | 4/5/11 0800 | pH 7<br>10<br>4 | 7.02<br>9.90<br>3.98 | Y<br>Y<br>Y | 17.20<br>17.50<br>17.55 | RP<br>RP<br>RP |
| | | | ORP 240<br>Conductivity | 205.2<br>3908 | Y<br>Y | 17.02<br>17.32 | RP<br>RP |
| | | | DO 100% | 90.1 | Y | 17.02 | RP |
| YSI 556 | 09D101246 | 4/6/11 0745 | pH 7<br>10<br>4 | 7.00<br>9.98<br>3.99 | Y<br>Y<br>Y | 16.32<br>16.04<br>16.15 | RP<br>RP |
| | | | ORP 243<br>Conductivity | 3987 | Y<br>Y | 16.70<br>16.02 | RP<br>RP |
| | | | DO 100% | 90.4 | Y | 16.00 | RP |

# TEST EQUIPMENT CALIBRATION LOG

| PROJECT NAME CHRMHW | | | | PROJECT NUMBER 110404-RS1 | | | |
|---|---|---|---|---|---|---|---|
| EQUIPMENT NAME | EQUIPMENT NUMBER | DATE/TIME OF TEST | STANDARDS USED | EQUIPMENT READING | CALIBRATED TO: OR WITHIN 10%: | TEMP. | INITIALS |
| YSI 556 | 09D101246 | 4/4/11 0915 | pH 7 | 6.90 | Y | 13.43 | RP |
| ↓ | ↓ | ↓ | 10 | 9.91 | Y | 13.56 | RP |
| ↓ | ↓ | ↓ | 4 | 3.95 | Y | 13.22 | RP |
| ↓ | ↓ | ↓ | ORP 247.0 | 251.2 | Y | 12.66 | RP |
| ↓ | ↓ | ↓ | Conductivity | 3905 | Y | 13.01 | RP |
| ↓ | ↓ | ↓ | DO 100% | 97.5% | Y | 12.02 | RP |
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# TEST EQUIPMENT CALIBRATION LOG

| PROJECT NAME PGE Hinkley | | | | PROJECT NUMBER 110404-251 | | | |
|---|---|---|---|---|---|---|---|
| EQUIPMENT NAME | EQUIPMENT NUMBER | DATE/TIME OF TEST | STANDARDS USED | EQUIPMENT READING | CALIBRATED TO: OR WITHIN 10%: | TEMP. | INITIALS |
| YSI 556 | 10A10055 | 4/4/11 0900 | pH 4<br>7<br>10 | 4.02<br>6.98<br>10.14 | ✓<br>✓<br>✓ | 16.51<br>16.54<br>16.80 | RS |
| ↓ | ↓ | ↓ | Cond 3900<br>DO 100<br>ORP 244 | 3797<br>98.4<br>231.9 | ✓<br>✓<br>✓ | 16.11<br>16.57<br>16.14 | RS |
| YSI 556 | 10A10055 | 4/5/11 0800 | pH 4<br>7<br>10 | 4.01<br>7.08<br>10.11 | ✓<br>✓<br>✓ | 11.16<br>11.20<br>11.22 | RS |
| ↓ | ↓ | ↓ | Cond 3900<br>DO 100<br>ORP 248 | 3782<br>100.0<br>250.1 | ✓<br>✓<br>✓ | 11.09<br>11.47<br>11.62 | RS |
| YSI 556 | 10A10055 | 4/6/11 0900 | pH 4<br>7<br>10 | 4.03<br>7.05<br>10.19 | ✓<br>✓<br>✓ | 16.71<br>16.74<br>16.77 | RS |
| ↓ | ↓ | ↓ | Cond 3900<br>DO 100<br>ORP 244 | 3955<br>85.8<br>238.0 | ✓<br>✓<br>✓ | 16.72<br>16.10<br>16.59 | RS |
| YSI 556 | 10A10055 | 4/7/11 0800 | pH 4<br>7<br>10 | 4.07<br>7.04<br>10.03 | ✓<br>✓<br>✓ | 16.12<br>16.42<br>16.49 | RS |
| ↓ | ↓ | ↓ | Cond 3900<br>DO 100<br>ORP 244 | 3911<br>92.7<br>241.1 | ✓<br>✓<br>✓ | 16.20<br>16.18<br>16.09 | RS |
| YSI 556 | 10A10055 | 4/8/10 0800 | pH 4<br>7<br>10 | 4.09<br>7.08<br>10.11 | ✓<br>✓<br>✓ | 10.16<br>10.19<br>10.22 | RS |
| ↓ | ↓ | ↓ | Cond 3900<br>DO 100<br>ORP 248 | 3984<br>99.7<br>250.9 | ✓<br>✓<br>✓ | 10.24<br>10.41<br>10.39 | RS |
| | | | | | | | |

## Purge Form

**Project Name** PGE Hinkley
Job Number 405677.GW.FW.SW
Field Team MS
Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/27/11
Page 1 of 1

**Well/Sample Number** 03-25-011-Q2
**QC Sample ID** N/A
QC Sample Time
Purge Start Time ~~1605~~ 1605
Purge Method
Dedicated Pump
Min. Purge Volume (gal)
Purge Rate (gpm)/(mLpm)
Flow Cell: Y / N

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity mS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Eh/ORP mv | Salinity % | TDS g/L | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1610 | 5 | 8.22 | 1116 | 3 | 3.97 | 21.9 | 65.5 | 0.55 | 0.728 | |
| | 1613 | 8 | 8.23 | 1114 | 1 | 3.96 | 22.1 | 65.3 | 0.55 | 0.721 | |
| | 1616 | 11 | 8.15 | 1113 | 1 | 3.97 | 22.0 | 65.7 | 0.55 | 0.722 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | +/- 10 mV | NA | NA | |
| Did Parameters Stablize prior to sampling? | | | | | | | NA | | NA | NA | |
| Previous Field measurement | | | | | | | | | | | |
| Are measurements consistent with previous? | | | | | | | | | | | |

Sample Time 1620 Sample Location: 03-25 pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double filtered sample

Initial Depth to Water (ft BTOC):
Field measured confirmation of Well Depth (ft btoc ): N/A
WD (Well Depth - from database) ft btoc:
SWH (Standing Water Height) = WD-Initial Depth
Casing Diameter (inches) ____ D (conversion) = $\pi r^2 \times 7.48$
One Casing Volume (gallons) = D*SWH:
Three Casing Volumes (gallons):

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/25/11

Sampler MJ Field Team 1 Field Conditions

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**Well/Sample Number** 14-10-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1425 Purge Method Ded. Pump Y

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1 GPM

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1430 | 5 | 8.28 | 610 | 1 | 4.07 | 22.0 | 0.30 | 0.396 | 62.8 | |
| | 1433 | 8 | 8.31 | 608 | 1 | 3.97 | 22.0 | 0.30 | 0.396 | 68.8 | |
| | 1436 | 11 | 8.35 | 605 | 1 | 3.89 | 22.0 | 0.29 | 0.396 | 69.9 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement () | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | NA | | | | |

Sample Time 1440 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Sample Double filtered

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): N/A

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

## Purge Form

**Project Name** PGE Hinkley
Job Number 405679. GW. FW. SW
Field Team MS  Field Conditions Clear

**Sampling Event** 2011-Dom-011-Q2
**Date** 4/28/11
Page 1 of 1

**Well/Sample Number** 22-10-011-Q2  **QC Sample ID**  QC Sample Time
Purge Start Time 1245  Purge Method  Dedicated Pump ✓
Flow Cell (Y) N  Min. Purge Volume (gal)  Purge Rate (gpm)/(mLpm) 1 GPM

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity mS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Eh/ORP mv | Salinity % | TDS g/L | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1250 | 5 | 7.96 | 1011 | 3 | 4.50 | 22.4 | 50.1 | 0.48 | 0.637 | |
| | 1253 | 8 | 7.99 | 985 | 1 | 4.54 | 22.3 | 48.3 | 0.48 | 0.637 | |
| | 1256 | 11 | 8.0 | 979 | 1 | 4.56 | 22.2 | 47.0 | 0.48 | 0.637 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | +/- 10 mV | NA | NA | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | NA | NA | |
| Previous Field measurement | | | | | | | | | | | |
| Are measurements consistent with previous? | | | | | | | | | | | |

Sample Time 1300  Sample Location: 22-10  pump tubing ____ well port ____ spigot ✓ bailer ____ other ____
Comments: Sample Double Filtered

Initial Depth to Water (ft BTOC): N/A
Field measured confirmation of Well Depth (ft btoc ):
WD (Well Depth - from database) ft btoc:
SWH (Standing Water Height) = WD-Initial Depth
Casing Diameter (inches) ____ D (conversion) = $\pi r^2 \times 7.48$
One Casing Volume (gallons) = D*SWH:
Three Casing Volumes (gallons):

Measure Point: Well TOC  Steel Casing  WATER LEVEL METER SERIAL NUMBER:

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green  **Odor:** none, sulphur, organic, other  **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/28/11

Sampler MS Field Team 1 Field Conditions

Page 1 of 1

**Well/Sample Number** 22-19-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1050 Purge Method Ded. Pump Y

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1 Gpm

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1055 | 5 | 8.91 | 907 | 10 | 3.53 | 22.1 | 0.44 | 0.585 | 107 | |
| | 1058 | 8 | 8.93 | 888 | 9 | 3.61 | 21.9 | 0.43 | 0.572 | 106.7 | |
| | 1101 | 11 | 8.96 | 880 | 9 | 3.74 | 21.9 | 0.43 | 0.582 | 106.5 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement () | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | NA | | | | |

Sample Time 1105 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Sample Double filtered

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc ): N/A

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/27/11

Sampler MS Field Team 1 Field Conditions Clear

Page 1 of 1

**Well/Sample Number** 22-38-011-Q2 **QC Sample ID** NA ✓ QC Sample Time

Purge Start Time 1200 Purge Method Ded. Pump

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1 gpm

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1205 | 5 | 8.42 | 827 | 6 | 5.34 | 21.5 | 0.41 | 0.539 | 82.3 | |
| | 1208 | 8 | 8.44 | 831 | 5 | 5.40 | 21.6 | 0.41 | 0.539 | 77.1 | |
| | 1211 | 11 | 8.44 | 828 | 5 | 5.35 | 21.7 | 0.41 | 0.539 | 75.3 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement () | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | NA | | | | |

Sample Time 1217 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Sample Double filtered

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): N/A

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

## Purge Form

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Field Team RD Field Conditions Clear

**Sampling Event** 2011-DOM-011-02
**Date** 4/26/11
Page 1 of 1

**Well/Sample Number** 22-45-011-02
**QC Sample ID** _____ QC Sample Time _____
Purge Start Time 1225
Purge Method Domestic Dedicated Pump _____
Flow Cell: Y / (N) Min. Purge Volume (gal) _____ Purge Rate (gpm)/(mLpm) _____

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Eh/ORP mv | Salinity % | TDS g/L | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1230 | 5 | 6.90 | 761 | 1 | 5.73 | 22.76 | 117.6 | 0.37 | 0.496 | |
| — | 1235 | 8 | 7.78 | 770 | 1 | 5.50 | 21.97 | 80.2 | 0.37 | 0.500 | |
| — | 1239 | 11 | 7.80 | 778 | 1 | 5.49 | 21.88 | 83.2 | 0.37 | 0.498 | |
| — | 1245 | 14 | 7.81 | 780 | 1 | 5.43 | 21.88 | 84.2 | 0.37 | 0.498 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | +/- 10 mV | NA | NA | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | NA | NA | |
| Previous Field measurement 12/15/2010 | | | 8.21 | 728 | 1 | 4.59 | | 67.4 | 0.36 | | |
| Are measurements consistent with previous? | | | Y | Y | Y | Y | N/A | Y | Y | N/A | |

Sample Time 1246 Sample Location: _____ pump tubing ~~X~~ well port _____ spigot _____ bailer _____ (other) Top water tank
Comments: Double Filter Post NTU = 1

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
Field measured confirmation of Well Depth (ft btoc ): _____
WD (Well Depth - from database) ft btoc: _____
SWH (Standing Water Height) = WD-Initial Depth _____
Casing Diameter (inches) _____ D (conversion) = $\pi r^2 \times 7.48$ _____
One Casing Volume (gallons) = D*SWH: _____
Three Casing Volumes (gallons): _____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal _____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/27/11

Sampler _____ Field Team 1 Field Conditions Clear

Page 1 of _____

**Well/Sample Number** 22-69-011-Q2 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 0955 Purge Method _____ Ded. Pump X

Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1 GPM

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1000 | 5 | 7.60 | 1135 | 4 | 2.42 | 30.8 | 0.56 | 0.741 | 55.5 | |
| | 1003 | 8 | 7.81 | 1136 | 3 | 2.25 | 30.1 | 0.56 | 0.741 | 51.2 | |
| | 1006 | 11 | 7.81 | 1136 | 2 | 2.19 | 30.0 | 0.56 | 0.741 | 49.4 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | | | Y | |
| Previous Field measurement () | | | | 0 | | | | | 0 | | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 1010 Sample Location: pump tubing _____ well port _____ spigot X bailer _____ other _____

Comments: Sample Double filtered

Initial Depth to Water (ft BTOC): _____

Field measured confirmation of Well Depth (ft btoc ): N/A

WD (Well Depth - from database) ft btoc _____

SWH (Standing Water Height) = WD-Initial Depth _____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 _____

One Casing Volume = D*SWH _____

Three Casing Volumes = _____

**Color:** clear, grey, yellow, brown, black, cloudy, green

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal _____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |

Comments:

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

## Purge Form

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Field Team MS  Field Conditions Clear

**Sampling Event** 2011-DPM-011-Q2
**Date** 4/22/11
Page 1 of 1

**Well/Sample Number** 22-74-011,Q2  **QC Sample ID** N/A  QC Sample Time

Purge Start Time 1305  Purge Method  Dedicated Pump ✓

Flow Cell Y / N  Min. Purge Volume (gal)  Purge Rate (gpm)/(mLpm) 1 GPM

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity mS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Eh/ORP mv | Salinity % | TDS g/L | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N/A | 1310 | 5 | 7.97 | 865 | 4 | 5.87 | 21.5 | 46.2 | 0.43 | 0.559 | |
| | 1313 | 8 | 7.96 | 864 | 2 | 5.85 | 21.6 | 47.4 | 0.42 | 0.559 | |
| | 1316 | 11 | 7.96 | 863 | 2 | 5.85 | 21.6 | 48.2 | 0.42 | 0.559 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | +/- 10 mV | NA | NA | |
| Did Parameters Stablize prior to sampling? | | | ✓ | ✓ | ✓ | ✓ | NA | ✓ | NA | NA | |
| Previous Field measurement | | | | | | | | | | | |
| Are measurements consistent with previous? | | | | | | | | | | | |

Sample Time 1321  Sample Location: 22-74  pump tubing ___ well port ___ spigot ✓ bailer ___ other ___

Comments: Sample Double filtered

Initial Depth to Water (ft BTOC):  Measure Point: Well TOC Steel Casing  WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc: N/A

SWH (Standing Water Height) = WD-Initial Depth

Casing Diameter (inches) ___ D (conversion) = $\pi r^2 \times 7.48$

One Casing Volume (gallons) = D*SWH:

Three Casing Volumes (gallons):

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green  **Odor:** none, sulphur, organic, other  **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/27/11

Sampler RP Field Team 1 Field Conditions Clear

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**Well/Sample Number** 22-75-011-Q2

**QC Sample ID** NA 04-06-011-Q2 QC Sample Time 1715

Purge Start Time ~~1659~~ 1653

Purge Method Domestic Ded. Pump ~~1715~~

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1658 | 5 | 7.43 | 1192 | 0.7 | 6.74 | 21.39 | 0.59 | 0.775 | 72.0 | |
| — | 1701 | 8 | 7.44 | 1187 | 0.4 | 6.64 | 21.42 | 0.59 | 0.772 | 66.0 | |
| — | 1704 | 11 | 7.45 | 1191 | 0.4 | 6.57 | 21.44 | 0.59 | 0.772 | 65.2 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement () | | 0 | | | | | 0 | |
| Are measurements consistent with previous? | | | | | NA | | | |

Sample Time 1705 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: Double Filter Post NTU = 0.3

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/26/11
Page 1 of 1

**Well/Sample Number** 23-07-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 0855 Purge Method Domestic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 0900 | 5 | 6.82 | 3707 | 1 | 3.24 | 21.50 | 1.96 | 2.410 | 72.5 | |
| — | 0903 | 8 | 6.82 | 3699 | 1 | 3.48 | 21.52 | 1.96 | 2.406 | 71.5 | |
| — | 0906 | 11 | 6.82 | 3687 | 1 | 3.42 | 21.53 | 1.96 | 2.409 | 70.2 | |
| — | 0909 | 14 | 6.82 | 3681 | 1 | 3.35 | 21.55 | 1.94 | 2.399 | 70.1 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (3/7/2011) | 7.2 | 2,700 | 0.97 | 3.79 | 21.4 | 0.159 | 1,881 | 141 |
| Are measurements consistent with previous? | N | N | Y | Y | NA | Y | Y | Y |

Sample Time 0910 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments: Double Filter Pass NTU = 1

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.SW
Sampler RP Field Team 1 Field Conditions Clear/Windy

**Sampling Event** 2011-DOM-011-Q2
**Date** 4/25/11
Page 1 of 1

**Well/Sample Number** 25-04-011-Q2 **QC Sample ID** 04-03-011-Q2 QC Sample Time

Purge Start Time 1523 Purge Method Domestic Ded. Pump

Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1528 | 5 | 6.79 | 2255 | 1 | 5.41 | 21.6 | 1.16 | 1.465 | 11.4 | |
| | 1531 | 8 | 6.79 | 2256 | 1 | 5.31 | 21.7 | 1.16 | 1.466 | 2.3 | |
| | 1534 | 11 | 6.80 | 2257 | 1 | 5.37 | 21.6 | 1.16 | 1.467 | 3.0 | |
| | | | | | | | | | | | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | NA | NA | Y |
| Previous Field measurement (1/3/2011) | 6.88 | 2,099 | 1 | 4.59 | 20.7 | 0.107 | 137 | 61.6 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | N |

Sample Time Sample Location: pump tubing well port spigot X bailer other

Comments: Double Filter First NTU < 1

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Field measured confirmation of Well Depth (ft btoc ):

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 4/27/11

Sampler RJ Field Team 1 Field Conditions Hot

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**Well/Sample Number** MW-71D-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1252 Purge Method Temp Ded. Pump N

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 11.2 Purge Rate (gpm)/(mLpm) 0.5

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 113.26 | 1300 | 2 | 7.96 | 483 | >1000 | 0.20 | 22.5 | 0.24 | 0.3270 | 113.2 | |
| 113.29 | 1304 | 4 | 7.92 | 601 | 727 | 0.35 | 22.8 | 0.29 | 0.3965 | 98.9 | |
| 113.33 | 1308 | 6 | 7.88 | 694 | 274 | 0.35 | 23.0 | 0.34 | 0.4550 | 77.2 | |
| 113.33 | 1312 | 8 | 7.86 | 726 | 111 | 0.39 | 23.2 | 0.35 | 0.4770 | 69.2 | |
| 113.33 | 1316 | 10 | 7.85 | 730 | 102 | 0.42 | 23.2 | 0.36 | 0.4770 | 67.8 | |
| 113.33 | 1320 | 12 | 7.85 | 731 | 110 | 0.44 | 23.3 | 0.36 | 0.4810 | 67.4 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/25/2011) | | | 7.74 | 1,107 | 102 | 1.97 | 21.93 | 0.055 | 719 | 69.5 | |
| Are measurements consistent with previous? | | | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1321 Sample Location: pump tubing / well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Port Filter Turbidity = 1

Initial Depth to Water (ft BTOC): 111.13 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 71817

Field measured confirmation of Well Depth (ft btoc ): 176.50

WD (Well Depth - from database) ft btoc (179)

SWH (Standing Water Height) = WD-Initial Depth 65.37

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH 11.2

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal 1252 |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation 1328 |
| 1250 | 111.13 | 1328 | 111.37 | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 4/27/11

Sampler RJ Field Team 1 Field Conditions

Page of

**Well/Sample Number** MW-71S-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1340 Purge Method Temp Ded. Pump

Flow Cell: Y N Min. Purge Volume (gal)/(L) 3.3 Purge Rate (gpm)/(mLpm) 0.25

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 80.39 | 1344 | 1 | 6.83 | 4888 | >1000 | 6.56 | 20.8 | 2.63 | 3.1790 | 164.9 | Muddy |
| 80.39 | 1348 | 2 | 6.84 | 4835 | 327 | 7.10 | 21.1 | 2.63 | 3.1720 | 131.1 | Silty |
| 80.39 | 1352 | 3 | 6.86 | 4832 | 262 | 7.22 | 22.1 | 2.60 | 3.1720 | 102.7 | |
| 80.39 | 1356 | 4 | 6.86 | 4831 | 260 | 7.20 | 22.2 | 2.62 | 3.1720 | 100.4 | |
| 80.39 | 1400 | 5 | 6.86 | 4831 | 259 | 7.23 | 22.2 | 2.63 | 3.1720 | 99.7 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/25/2011) | 7.02 | 4,935 | 54 | 6.3 | 21.99 | 0.263 | 3,200 | 99.7 | |
| Are measurements consistent with previous? | Y | Y | N | Y | NA | Y | Y | Y | |

Sample Time 1401 Sample Location: pump tubing ✓ well port spigot bailer other

Comments: Double Filtered - Post-Filter Turbidity = 2

Initial Depth to Water (ft BTOC): 80.25

Field measured confirmation of Well Depth (ft btoc ): 99.87

WD (Well Depth - from database) ft btoc (100)

SWH (Standing Water Height) = WD-Initial Depth 19.62

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH 3.4

Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| 1320 | 80.25 | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 4/27/11

Sampler AO Field Team 1 Field Conditions Sunny

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**Well/Sample Number** MW-72D-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1347 Purge Method temp Ded. Pump N

Flow Cell Y N Min. Purge Volume (gal)/(L) 12.2 Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 95.24 | 1351 | 4 | 8.20 | 660 | 932 | 0.53 | 22.3 | 0.32 | 0.43 | -47.8 | |
| 95.24 | 1355 | 8 | 8.16 | 651 | 314 | 0.49 | 23.3 | 0.32 | 0.43 | -52.8 | |
| 95.24 | 1359 | 12 | 8.17 | 655 | 226 | 0.47 | 23.6 | 0.32 | 0.43 | -52.9 | |
| 95.24 | ~~1403~~ 1403 | 16 | 8.17 | 654 | 43 | 0.49 | 23.8 | 0.32 | 0.43 | -54.1 | |
| 95.24 | 1407 | 20 | 8.18 | 655 | 39 | 0.49 | 23.8 | 0.32 | 0.43 | -53.9 | |
| 95.24 | 1411 | 24 | 8.18 | 655 | 38 | 0.47 | 23.7 | 0.32 | 0.43 | -54.0 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/25/2011) | | | 8.14 | 606 | 39 | 0.33 | 22.76 | 0.029 | 393 | -45.8 | |
| Are measurements consistent with previous? | | | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1412 ~~1408~~ MP Sample Location: pump tubing ✓ well port ___ spigot ___ bailer ___ other ___

Comments: Double filtered - Post filter turbidity = 0

Initial Depth to Water (ft BTOC): 93.73

Field measured confirmation of Well Depth (ft btoc ): 165.30

WD (Well Depth - from database) ft btoc (164)

SWH (Standing Water Height) = WD-Initial Depth 71.57

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH 12.2

Three Casing Volumes = 36.6

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 27889

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal 1336 |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation 1420 |
| 1335 | 93.73 | 1425 | 94.05 | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 4/27/11

Sampler AO Field Team 1 Field Conditions Sunny

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**Well/Sample Number** MW-72S-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1437 Purge Method Temp Ded. Pump N

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 3.5 Purge Rate (gpm)/(mLpm) 0.25

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 82.24 | 1441 | 1 | 7.20 | 2166 | 254 | 4.65 | 23.1 | 1.1 | 1.40 | 41.3 | |
| 82.24 | 1445 | 2 | 7.22 | 2136 | 121 | 4.82 | 23.6 | 1.10 | 1.39 | 48.1 | |
| 82.24 | 1449 | 3 | 7.22 | 2133 | 92 | 4.94 | 23.7 | 1.10 | 1.39 | 48.3 | |
| 82.24 | 1453 | 4 | 7.22 | 2133 | 87 | 4.92 | 23.9 | 1.09 | 1.39 | 48.5 | |
| 82.24 | 1457 | 5 | 7.22 | 2130 | 85 | 4.95 | 23.8 | 1.09 | 1.39 | 48.5 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/25/2011) | 7.26 | 1,891 | 33 | 5.9 | 22.56 | 0.096 | 1,230 | 69.5 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1458 Sample Location: pump tubing ____ well port ✓ spigot ____ bailer ____ other ____

Comments: Double filtered - Post filter turbidity = 0

Initial Depth to Water (ft BTOC): 80.13

Field measured confirmation of Well Depth (ft btoc ): 100.37

WD (Well Depth - from database) ft btoc (100)

SWH (Standing Water Height) = WD-Initial Depth 20.24

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH 3.5

Three Casing Volumes = 10.5

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 27889

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal 1453 |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation 1510 |
| ~~1332~~ 1432 | 80.13 | 1515 | 80.31 | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 4/27/11

Sampler AO Field Team 1 Field Conditions Sunny

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**Well/Sample Number** MW-79D-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 0926 Purge Method temp Ded. Pump N

Flow Cell: Y N Min. Purge Volume (gal)/(L) 12.6 Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 89.67 | 0930 | 4 | 8.11 | 464.3 | 82 | 0.83 | 23.1 | 0.23 | 0.302 | 66.9 | |
| 89.67 | 0934 | 8 | 8.11 | 464.2 | 54 | 0.71 | 23.2 | 0.23 | 0.302 | 62.3 | |
| 89.67 | 0938 | 12 | 8.16 | 468.3 | 37 | 0.70 | 23.2 | 0.22 | 0.302 | 61.1 | |
| 89.67 | 0942 | 16 | 8.11 | 467.3 | 35 | 0.69 | 23.2 | 0.22 | 0.304 | 60.9 | |
| 89.67 | 0946 | 20 | 8.11 | 466.9 | 34 | 0.70 | 23.2 | 0.22 | 0.304 | 60.9 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/27/2011) | 8.03 | 435 | 53 | 0.96 | 22.5 | 0.021 | 283 | 81.5 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 0947 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double filtered - post filter turbidity = 1

Initial Depth to Water (ft BTOC): 88.35

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 27889

Field measured confirmation of Well Depth (ft btoc ): 161.98

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth 73.63

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH 12.6

Three Casing Volumes = 37.8

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal 0914 |
| 0912 | 88.35 | ~~0909~~ 1003 | 88.65 | Time of Reinstallation 0958 |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV
Sampler AO Field Team 1 Field Conditions

**Sampling Event** 2011-DVD-011-Q2
**Date** 4/27/11
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**Well/Sample Number** MW-79S-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1027 Purge Method temp Ded. Pump N

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 7.1 Purge Rate (gpm)/(mLpm) 0.5

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 81.91 | 1031 | 2 | 7.05 | 2200 | 526 | 4.72 | 22.6 | 1.13 | 1.43 | 69.2 | |
| 82.16 | 1035 | 4 | 7.03 | 2206 | 92 | 5.19 | 22.9 | 1.13 | 1.44 | 68.7 | |
| 82.16 | 1039 | 6 | 7.03 | 2206 | 72 | 5.15 | 22.9 | 1.13 | 1.44 | 70.0 | |
| 82.16 | 1043 | 8 | 7.02 | 2206 | 70 | 5.14 | 23.0 | 1.13 | 1.44 | 71.4 | |
| 82.16 | 1047 | 10 | 7.03 | 2206 | 69 | 5.14 | 23.0 | 1.13 | 1.44 | 71.6 | |
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| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/27/2011) | 7.11 | 2,091 | 225 | 3.7 | 22.93 | 0.107 | 1,361 | 77.1 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1048 Sample Location: pump tubing ✓ well port spigot bailer other

Comments: Double Filtered - Post filter turbidity = 1

Initial Depth to Water (ft BTOC): 78.60
Field measured confirmation of Well Depth (ft btoc ): 120.10
WD (Well Depth - from database) ft btoc
SWH (Standing Water Height) = WD-Initial Depth 41.5
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)
One Casing Volume = D*SWH 7.1
Three Casing Volumes = 21.3

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 27889

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal 1006 |
| 1005 | 78.60 | 1056 | 78.69 | Time of Reinstallation 1051 |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 4/27/11

Sampler AO Field Team 1 Field Conditions Sunny

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**Well/Sample Number** MW-80D-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1138 Purge Method temp Ded. Pump N

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 13.1 Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 80.79 | 1142 | 4 | 7.81 | 1007 | 529 | 0.40 | 22.8 | 0.50 | 0.66 | -31.4 | |
| 80.79 | 1146 | 8 | 7.77 | 1019 | 160 | 0.44 | 23.2 | 0.50 | 0.66 | -29.3 | |
| 80.79 | 1150 | 12 | 7.77 | 1019 | 39 | 0.43 | 23.3 | 0.50 | 0.66 | -26.3 | |
| 80.79 | 1154 | 16 | 7.77 | 1020 | 39 | 0.44 | 23.3 | 0.50 | 0.66 | -25.7 | |
| 80.79 | 1158 | 20 | 7.76 | 1021 | 38 | 0.43 | 23.3 | 0.50 | 0.66 | -25.5 | |
| ~~80.79~~ | | | | | | | | | | | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/27/2011) | 7.68 | 988 | 25 | 0.83 | 22.63 | 0.049 | 646 | -6.3 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1159 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double filtered - Post filter turbidity = 0

Initial Depth to Water (ft BTOC): 79.04

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 27889

Field measured confirmation of Well Depth (ft btoc): 155.64

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth 76.6

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH 13.1

Three Casing Volumes = 39.3

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal 1121 |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation 1205 |
| 1120 | 79.04 | 1210 | 79.24 | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 4/27/11

Sampler AO Field Team 1 Field Conditions Sunny

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**Well/Sample Number** MW-80S-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1220 Purge Method temp Ded. Pump N

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 3.9 Purge Rate (gpm)/(mLpm) 0.25

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 79.82 | 1224 | 1 | 7.31 | 2122 | 825 | 0.84 | 23.0 | 1.08 | 1.38 | 12.1 | |
| 79.82 | 1228 | 2 | 7.34 | 2112 | 463 | 0.92 | 23.2 | 1.09 | 1.38 | 7.9 | |
| 79.82 | 1232 | 3 | 7.36 | 2113 | 211 | 0.95 | 23.3 | 1.09 | 1.38 | 6.9 | |
| 79.82 | 1236 | 4 | 7.36 | 2113 | 209 | 0.95 | 23.3 | 1.09 | 1.38 | 6.5 | |
| 79.82 | 1240 | 5 | 7.36 | 2114 | 203 | 0.95 | 23.3 | 1.09 | 1.38 | 6.5 | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/27/2011) | 7.35 | 1,908 | 146 | 1.13 | 22.6 | 0.098 | 1,245 | -10.5 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1241 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double filtered - Post filter turbidity = 1

Initial Depth to Water (ft BTOC): 77.90

Field measured confirmation of Well Depth (ft btoc ): 100.52

WD (Well Depth - from database) ft btoc ~~22.62~~

SWH (Standing Water Height) = WD-Initial Depth 22.62

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (2 in)

One Casing Volume = D*SWH ~~3.85~~ 3.9

Three Casing Volumes = 11.7

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 27889

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal 1216 |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation 1250 |
| 1215 | 77.90 | 1255 | 78.12 | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV
Sampler RS Field Team 1 Field Conditions HOT

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11
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**Well/Sample Number** DVD-BS-01-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 0945 Purge Method Ded. Ded. Pump Y

Flow Cell: Y N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 0950 | 5 | 6.86 | 2521 | 4 | 5.65 | 20.46 | 1.30 | 1.643 | 132.9 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | | | | | NA | | | | |
| Previous Field measurement (1/26/2011) | | | 7.68 | 2,430 | 7 | 6.09 | 19.23 | 0.119 | 1,488 | 145.3 | |
| Are measurements consistent with previous? | | | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 0950 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity - 1 NTU

Initial Depth to Water (ft BTOC): NA

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

Measure Point: ~~Well TOC~~ Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV
Sampler BS Field Team 1 Field Conditions HOT

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11
Page 1 of 1

**Well/Sample Number** DVD-Tanks-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1055 Purge Method Ded Ded. Pump Y

Flow Cell (Y)/ N Min. Purge Volume (gal)/(L) NA Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged (gallons) / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NA | 1100 | 5 | 7.59 | 1530 | 1 | 4.66 | 22.34 | 0.78 | 1.004 | 93.5 | |
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| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | | | | | NA | | | | |
| Previous Field measurement (1/26/2011) | | | 7.55 | 1,721 | 10 | 5.12 | 19.31 | 0.085 | 1,093 | 276.5 | |
| Are measurements consistent with previous? | | | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1100 Sample Location: pump tubing ____ well port ____ spigot ✓ bailer ____ other ____

Comments: Double Filtered – Post Filter Turb – 1 NTU

Initial Depth to Water (ft BTOC): NA
Field measured confirmation of Well Depth (ft btoc ):
WD (Well Depth - from database) ft btoc
SWH (Standing Water Height) = WD-Initial Depth
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041
One Casing Volume = D*SWH
Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 3

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11

Sampler BJ Field Team 1 Field Conditions HOT

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**Well/Sample Number** DW-01-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1030 Purge Method QED Ded. Pump Y

Flow Cell: Y N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 500

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 83.99 | 1032 | 1 | 6.78 | 4319 | 2 | 6.69 | 20.36 | 2.30 | 2.796 | 112.4 | |
| 83.99 | 1034 | 2 | 6.65 | 4249 | 3 | 6.49 | 20.47 | 2.27 | 2.762 | 110.3 | |
| 83.99 | 1036 | 3 | 6.65 | 4250 | 3 | 6.51 | 20.45 | 2.27 | 2.763 | 110.1 | |
| 83.99 | 1038 | 4 | 6.65 | 4251 | 2 | 6.50 | 20.46 | 2.27 | 2.764 | 109.9 | |
| 83.99 | 1040 | 5 | 6.65 | 4253 | 2 | 6.48 | 20.46 | 2.27 | 2.764 | 109.9 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7.04 | 4,625 | 3 | 6.8 | 19.92 | 0.251 | 2,997 | 83.5 | |
| Are measurements consistent with previous? | | | | | NA | | | | |

Sample Time 1041 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turb - 1 NTU

Initial Depth to Water (ft BTOC): 83.96 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc): NA

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11

Sampler RJ Field Team 1 Field Conditions HOT

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**Well/Sample Number** DW-02-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 0915 Purge Method QED Ded. Pump Y

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 500

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 78.54 | 0917 | 1 | 7.06 | 4412 | 4 | 6.74 | 20.0 | 2.38 | 2.897 | 102.6 | |
| 78.54 | 0919 | 2 | 6.56 | 4506 | 3 | 1.68 | 19.8 | 2.40 | 2.911 | 101.2 | |
| 78.54 | 0921 | 3 | 6.56 | 4503 | 3 | 1.72 | 19.8 | 2.41 | 2.933 | 101.0 | |
| 78.54 | 0923 | 4 | 6.56 | 4508 | 3 | 1.76 | 19.8 | 2.41 | 2.929 | 101.2 | |
| 78.54 | 0925 | 5 | 6.56 | 4509 | 3 | 1.81 | 19.8 | 2.41 | 2.927 | 101.1 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 6.9 | 4,902 | 5 | 0.97 | 19.45 | 0.261 | 3,170 | 95.6 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 0926 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turb = 1 NTU

Initial Depth to Water (ft BTOC): 78.51 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc ): NA

WD (Well Depth - from database) ft btoc

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11

Sampler RS Field Team 1 Field Conditions HOT

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**Well/Sample Number** DW-03-011-Q2 **QC Sample ID** MW-931-011-Q2 QC Sample Time 0835

Purge Start Time 0820 Purge Method QED Ded. Pump Y

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 500

| Water Level | Time | Vol. Purged gallons / liters | pH ✓ | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 82.91 | 0822 | 1 | 6.58 | 6339 | 2 | 4.38 | 20.07 | 3.49 | 4.143 | 141.7 | |
| 82.91 | 0824 | 2 | 6.59 | 6404 | 1 | 4.73 | 20.12 | 3.51 | 4.165 | 138.9 | |
| 82.91 | 0826 | 3 | 6.59 | 6409 | 1 | 4.69 | 20.13 | 3.53 | 4.166 | 138.4 | |
| 82.91 | 0828 | 4 | 6.59 | 6411 | 1 | 4.68 | 20.12 | 3.53 | 4.166 | 138.1 | |
| 82.91 | 0830 | 5 | 6.59 | 6412 | 1 | 4.72 | 20.14 | 3.53 | 4.166 | 137.6 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/26/2011) | 7.26 | 6,449 | 3 | 6.21 | 19.55 | 0.365 | 4,275 | 101.2 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 0831 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turb - 1 NTU

Initial Depth to Water (ft BTOC): 82.89 Measure Point: ~~Well TOC~~ Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc): NA

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV
Sampler HH Field Team 1 Field Conditions Sunny/windy

**Sampling Event** 2011-DVD-011-Q2
**Date** 05/02/11
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**Well/Sample Number** EX-01-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1038 Purge Method Ded. Pump X yes

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1043 | 5 | 7.20 | 1893 | 4 | 6.08 | 20.54 | 0.90 | 1.161 | 245.6 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | Double Filtered |
| | | | | | | | | | | | Post Turbidity = 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | NA | NA | | NA | NA | NA | NA | NA | |
| Previous Field measurement (1/27/2011) | | | 7.59 | 1,801 | 3 | 5.85 | 19.8 | 0.092 | 1,172 | 236 | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 1043 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (169)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (10.25 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 08/02/11

Sampler HH Field Team 1 Field Conditions Sunny

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**Well/Sample Number** EX-02-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1053 Purge Method Ded. Pump X yes

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm)

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1058 | 5 | 7.40 | 2534 | 4 | 6.99 | 21.71 | 1.30 | 1.601 | 187.6 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | Double Filtered |
| | | | | | | | | | | | Post Turbidity = 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | NA | NA | NA | NA | NA | NA | NA | NA |
| Previous Field measurement (1/27/2011) | 7.52 | 2,336 | 2 | 7.21 | 19.85 | 0.12 | 1,514 | 193.7 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1058 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (160)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (10.25 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 05/02/11

Sampler HH Field Team 1 Field Conditions Somy

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**Well/Sample Number** EX-03-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1109 Purge Method Ded. Pump X yes

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 1.0

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1114 | 5 | 7.70 | 2862 | 6 | 6.91 | 20.11 | 1.49 | 1.811 | 66.4 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | Double Filtered |
| | | | | | | | | | | | Post Turbidity = 2 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | NA | NA | NA | NA | NA | NA | NA | NA | |
| Previous Field measurement (1/27/2011) | | | 7.81 | 2,851 | 4 | 6.83 | 19.43 | 0.149 | 1,855 | 87.8 | |
| Are measurements consistent with previous? | | | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1114 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (143)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (6 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 05/02/11

Sampler HH Field Team 1 Field Conditions Sunny

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**Well/Sample Number** EX-04-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 0940 Purge Method ~~Bailer~~ Ded. Pump yes

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| – | 0945 | 5 | 6.94 | 5187 | 4 | 6.92 | 20.82 | 2.78 | 2.917 | 369 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | Double Filtered |
| | | | | | | | | | | | Post Turbidity = 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | NA | NA | NA | NA | NA | NA | NA | NA |
| Previous Field measurement (1/27/2011) | 7.67 | 4,414 | 4 | 6.22 | 20.49 | 0.236 | 2,876 | 49.8 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 0945 Sample Location: pump tubing ____ well port ~~X~~ HH spigot ~~X~~ bailer ____ other ____

Comments: ____

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc (119)

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (6 in)

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal ____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 05/02/11

Sampler HH Field Team 1 Field Conditions Sunny

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**Well/Sample Number** EX-23-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1124 Purge Method Ded. Pump x yes

Flow Cell: Y N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| — | 1129 | 5 | 7.41 | 4710 | 10 | 5.61 | 20.04 | 2.50 | 3.111 | 119.6 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | Double Filtered |
| | | | | | | | | | | | Post Turbidity = 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | NA | NA | NA | NA | NA | NA | NA | NA |
| Previous Field measurement (1/27/2011) | 7.6 | 4,625 | 2 | 5.46 | 19.83 | 0.248 | 3,007 | 110.6 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1129 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 05/02/11

Sampler HH Field Team 1 Field Conditions Sunny

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**Well/Sample Number** EX-24-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1141 Purge Method Ded. Pump X YES

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 1

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| – | 1146 | 5 | 7.31 | 5219 | 11 | 6.26 | 20.33 | 2.89 | 3.410 | 95.6 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | Double Filtered |
| | | | | | | | | | | | Post Turbidity = 1 |
| | | | | | | | | | | | |
| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | NA | NA | NA | NA | NA | NA | NA | NA | |
| Previous Field measurement (1/27/2011) | | | 7.51 | 5,198 | 6 | 6.39 | 20.24 | 0.28 | 3,374 | 109.7 | |
| Are measurements consistent with previous? | | | | | | | NA | | | | |

Sample Time 1146 Sample Location: pump tubing ____ well port ____ spigot X bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): ____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): ____

WD (Well Depth - from database) ft btoc ____

SWH (Standing Water Height) = WD-Initial Depth ____

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 ____

One Casing Volume = D*SWH ____

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11

Sampler NJ Field Team 1 Field Conditions HOT

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**Well/Sample Number** MW-21B-011-Q2 **QC Sample ID** MW-932-011-Q2 QC Sample Time 1340

Purge Start Time 1325 Purge Method RFD Ded. Pump Y

Flow Cell: Y N Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 500

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84.04 | 1327 | 1 | 7.86 | 983 | 4 | 2.91 | 21.41 | 0.49 | 0.639 | -142.4 | |
| 84.04 | 1329 | 2 | 7.82 | 993 | 3 | 1.07 | 21.30 | 0.49 | 0.646 | -80.4 | |
| 84.04 | 1331 | 3 | 7.82 | 995 | 3 | 1.04 | 21.27 | 0.49 | 0.647 | -75.7 | |
| 84.04 | 1333 | 4 | 7.82 | 996 | 3 | 1.03 | 21.28 | 0.49 | 0.647 | -74.2 | |
| 84.04 | 1335 | 5 | 7.82 | 996 | 3 | 1.01 | 21.27 | 0.49 | 0.647 | -73.0 | |
| | | | | | | | | | | | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7.78 | 993 | 4 | 0.37 | 19.3 | 0.049 | 643 | -90.9 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1336 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity - 1 NTU

Initial Depth to Water (ft BTOC): 84.02 ~~78.51~~ RS

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31017

Field measured confirmation of Well Depth (ft btoc ): NA ~~NA~~

WD (Well Depth - from database) ft btoc (160)

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11

Sampler RJ Field Team 1 Field Conditions HOT

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**Well/Sample Number** MW-21B1-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1400 Purge Method Temp Ded. Pump N

Flow Cell: Y N Min. Purge Volume (gal)/(L) 31.3 Purge Rate (gpm)/(mLpm) 2.0

**Collect Equipment Blank: MW-21B1-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84.86 | 1404 | 8 | 7.03 | 1748 | 10 | 6.57 | 20.96 | 0.88 | 1.133 | 34.7 | |
| 84.90 | 1408 | 16 | 7.02 | 1747 | 6 | 6.37 | 21.35 | 0.89 | 1.134 | 38.0 | |
| 84.90 | 1412 | 24 | 7.02 | 1741 | 4 | 6.39 | 21.34 | 0.88 | 1.131 | 39.5 | |
| 84.90 | 1416 | 32 | 7.02 | 1740 | 4 | 6.37 | 21.34 | 0.88 | 1.131 | 40.1 | |
| 84.90 | 1420 | 40 | 7.02 | 1741 | 4 | 6.36 | 21.35 | 0.88 | 1.131 | 41.7 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 6.98 | 1,711 | 4 | 8.74 | 20.8 | 0.087 | 1,111 | 35.1 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1421 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity - 1NTU
MW-21B1-011-Q2-EB @ 1350

Initial Depth to Water (ft BTOC): 84.79 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc ): 132.11

WD (Well Depth - from database) ft btoc (129.8)

SWH (Standing Water Height) = WD-Initial Depth 47.32

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 31.3

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11
Page 1 of 1

Sampler BL Field Team 1 Field Conditions SUNNY

QC Sample ID NA QC Sample Time —

**Well/Sample Number** MW-29-011-Q2 Purge Method TempRF2 Ded. Pump —

Purge Start Time 1530 Min. Purge Volume (gal)/(L) 14.7 Purge Rate (gpm)/(mLpm) 0.75

Flow Cell: (Y) N

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 81.29 | 1534 | 3 | 7.11 | 5658 | 11 | 4.14 | 21.91 | 3.12 | 3.737 | 44.8 | |
| 81.29 | 1538 | 6 | 7.12 | 5745 | 9 | 3.95 | 22.00 | 3.11 | 3.730 | 50.5 | |
| 81.29 | 1542 | 9 | 7.13 | 5753 | 8 | 3.91 | 22.15 | 3.05 | 3.722 | 62.0 | |
| 81.29 | 1546 | 12 | 7.13 | 5755 | 8 | 3.90 | 22.19 | 3.04 | 3.719 | 65.9 | |
| 81.29 | 1550 | 15 | 7.13 | 5759 | 8 | 3.88 | 22.22 | 3.02 | 3.717 | 69.5 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/26/2011) | 6.96 | 5,106 | 4 | 7.2 | 20.92 | 0.284 | 3,314 | 118.7 |
| Are measurements consistent with previous? | Y | X | Y | Y | NA | Y | Y | Y |

Sample Time 1551 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: 2X Polter = 1 NTU

Initial Depth to Water (ft BTOC): 81.25
Field measured confirmation of Well Depth (ft btoc ): 103.46
WD (Well Depth - from database) ft btoc (104)
SWH (Standing Water Height) = WD-Initial Depth 22.21
D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)
One Casing Volume = D*SWH 14.7
Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

| Initial DTW / Before Removal | | Approx. 5 min After Reinstallation | | If Transducer | |
|---|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Removal | 1525 |
| 1525 | 81.25 | 1600 | 81.26 | Time of Reinstallation | 1555 |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11

Sampler BJ Field Team 1 Field Conditions HOT

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**Well/Sample Number** MW-30B1-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1520 Purge Method Temp Ded. Pump N

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 27.7 Purge Rate (gpm)/(mLpm) 2

**Collect Equipment Blank: MW-30B1-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 86.32 | 1524 | 8 | 6.92 | 1639 | 11 | 5.78 | 20.98 | 0.83 | 1.065 | 61.7 | |
| 86.32 | 1528 | 16 | 6.92 | 1642 | 6 | 5.91 | 21.43 | 0.83 | 1.066 | 60.6 | |
| 86.32 | 1532 | 24 | 6.92 | 1643 | 5 | 5.96 | 21.44 | 0.83 | 1.066 | 60.4 | |
| 86.32 | 1536 | 32 | 6.92 | 1643 | 5 | 5.93 | 21.44 | 0.83 | 1.066 | 60.1 | |
| 86.32 | 1540 | 40 | 6.92 | 1644 | 5 | 5.94 | 21.43 | 0.83 | 1.066 | 61.0 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 6.86 | 1,638 | 4 | 6.51 | 21 | 0.083 | 1,066 | 42.4 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1541 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity - 2 NTU
MW-30B1-011-Q2-EB @ 1505

Initial Depth to Water (ft BTOC): 86.19 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc): 143.20

WD (Well Depth - from database) ft btoc (140.9)

SWH (Standing Water Height) = WD-Initial Depth 57.01

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 37.7

Three Casing Volumes =

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11

Sampler RH Field Team 1 Field Conditions HOT

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**Well/Sample Number** MW-30B2-011-Q2

**QC Sample ID** NA

QC Sample Time

Purge Start Time 1442

Purge Method QED Ded. Pump

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 500

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 85.55 | 1444 | 1 | 6.99 | 1622 | 1 | 4.60 | 22.08 | 0.82 | 1.058 | 50.9 | |
| 85.54 | 1446 | 2 | 6.97 | 1635 | 1 | 4.83 | 22.06 | 0.83 | 1.066 | 51.2 | |
| 85.54 | 1448 | 3 | 6.95 | 1646 | 1 | 4.92 | 22.06 | 0.83 | 1.074 | 51.6 | |
| 85.54 | 1450 | 4 | 6.95 | 1647 | 1 | 5.01 | 22.07 | 0.83 | 1.074 | 51.9 | |
| 85.54 | 1452 | 5 | 6.95 | 1647 | 1 | 5.04 | 22.04 | 0.83 | 1.074 | 52.1 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| Parameter Stabilization Criteria | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7 | 1,602 | 1 | 5.13 | 19.5 | 0.081 | 1,033 | -15.2 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1453 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity = 1 NTU

Initial Depth to Water (ft BTOC): 85.52

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: 7187

Field measured confirmation of Well Depth (ft btoc): NA

WD (Well Depth - from database) ft btoc (161.1)

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/2/11

Sampler RS Field Team 1 Field Conditions Warm

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**Well/Sample Number** MW-31-011-Q2

**QC Sample ID** NA

QC Sample Time

Purge Start Time 1113

Purge Method Temp Ded. Pump N

Flow Cell: Y N

Min. Purge Volume (gal)/(L) 28.1 Purge Rate (gpm)/(mLpm) 1.5

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 87.97 | 1117 | 6 | 6.89 | 3803 | 6 | 7.27 | 19.6 | 1.91 | 2.3400 | 69.7 | |
| 87.99 | 1121 | 12 | 6.87 | 3664 | 4 | 7.15 | 20.3 | 1.94 | 2.385J | 77.1 | |
| 87.99 | 1125 | 18 | 6.87 | 3676 | 3 | 7.11 | 20.4 | 1.94 | 2.3790 | 79.7 | |
| 87.99 | 1129 | 24 | 6.87 | 3673 | 3 | 7.10 | 20.4 | 1.94 | 2.3790 | 80.1 | |
| 87.99 | 1133 | 30 | 6.87 | 3670 | 2 | 7.09 | 20.4 | 1.94 | 2.3790 | 81.4 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/26/2011) | 6.85 | 3,749 | 3 | 8.56 | 19.9 | 0.198 | 2,431 | 67.1 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 1134 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turb = 1 NTU

Initial Depth to Water (ft BTOC): 87.71

Measure Point: Well TOC Steel Casing

WATER LEVEL METER SERIAL NUMBER: 3/8 17

Field measured confirmation of Well Depth (ft btoc ): 130.53

WD (Well Depth - from database) ft btoc (128.1)

SWH (Standing Water Height) = WD-Initial Depth 42.82

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 28.1

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/2/11

Sampler DJ Field Team 1 Field Conditions HOT

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**Well/Sample Number** MW-32B1-011-Q2

**QC Sample ID** NA

QC Sample Time ____

Purge Start Time 1147

Purge Method QED Ded. Pump Y

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) 5 Purge Rate (gpm)/(mLpm) 500

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 87.89 | 1149 | 1 | 7.60 | 866 | 2 | 4.58 | 21.1 | 0.44 | 0.5785 | 84.5 | |
| 87.89 | 1151 | 2 | 7.52 | 886 | 1 | 4.61 | 21.1 | 0.44 | 0.5785 | 85.7 | |
| 87.89 | 1153 | 3 | 7.51 | 887 | 1 | 4.59 | 21.1 | 0.44 | 0.5785 | 86.1 | |
| 87.89 | 1155 | 4 | 7.51 | 887 | 1 | 4.58 | 21.1 | 0.44 | 0.5785 | 86.4 | |
| 87.89 | 1157 | 5 | 7.51 | 887 | 1 | 4.57 | 21.1 | 0.44 | 0.5785 | 86.6 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7.57 | 887 | 1 | 4.2 | 20.4 | 0.044 | 578 | 24.7 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1158 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turb = 1

Initial Depth to Water (ft BTOC): 87.87

Field measured confirmation of Well Depth (ft btoc ): NA

WD (Well Depth - from database) ft btoc (141.6)

SWH (Standing Water Height) = WD-Initial Depth

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH

Three Casing Volumes =

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/25/11

Sampler _____ Field Team 1 Field Conditions _____ Page _____ of _____

**Well/Sample Number** MW-32B2-011-Q2 **QC Sample ID** MW-933-011-Q2 QC Sample Time 1310

Purge Start Time 1237 Purge Method Temp Ded. Pump _____

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 49.7 Purge Rate (gpm)/(mLpm) 2.0

**Collect Equipment Blank: MW-32B2-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 87.31 | 1241 | 8 | 7.80 | 599 | 2 | 0.10 | 22.2 | 0.33 | 0.3900 | 63.9 | |
| 87.31 | 1245 | 16 | 7.79 | 596 | 3 | 0.15 | 22.3 | 0.29 | 0.3835 | 62.9 | |
| 87.31 | 1249 | 24 | 7.78 | 599 | 2 | 0.07 | 22.5 | 0.29 | 0.3900 | 54.1 | |
| 87.31 | 1253 | 32 | 7.78 | 600 | 2 | 0.08 | 22.5 | 0.29 | 0.3900 | 30.9 | |
| 87.31 | 1257 | 40 | 7.78 | 603 | 3 | 0.09 | 22.5 | 0.29 | 0.3900 | 27.6 | |
| 87.31 | 1301 | 48 | 7.78 | 607 | 2 | 0.08 | 22.5 | 0.29 | 0.3900 | 22.1 | |
| 87.31 | 1305 | 56 | 7.78 | 608 | 2 | 0.08 | 22.5 | 0.29 | 0.3900 | 20.8 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7.71 | 619 | 3 | 0.1 | 22.1 | 0.03 | 403 | -0.4 | |
| Are measurements consistent with previous? | | | | | NA | | | | |

Sample Time 1306 Sample Location: pump tubing ✓ well port _____ spigot _____ bailer _____ other _____

Comments: Double Filtered - Post Filter Turbid 1 NTU
MW-32B2-011-Q2-EB @ 1230

Initial Depth to Water (ft BTOC): 86.74 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc ): 162.00

WD (Well Depth - from database) ft btoc (159.7)

SWH (Standing Water Height) = WD-Initial Depth 75.26

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 49.7

Three Casing Volumes = _____

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal _____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/6/11

Sampler RS Field Team 1 Field Conditions ~~RS~~ HOT

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**Well/Sample Number** MW-42B1-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 0929 Purge Method Temp Ded. Pump N

Flow Cell (Y) N Min. Purge Volume (gal)/(L) 23.8 Purge Rate (gpm)/(mLpm) 2

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84.94 | 0933 | 8 | 6.86 | 2060 | 11 | 6.37 | 21.0 | 1.06 | 1.3456 | 170.8 | w/ ultrameter |
| 84.94 | 0937 | 16 | 6.85 | 2006 | 6 | 7.07 | 21.2 | 1.04 | 1.3130 | 170.1 | |
| 84.94 | 0941 | 24 | 6.85 | 2008 | 4 | 7.17 | 21.2 | 1.03 | 1.3065 | 170.5 | |
| 84.94 | 0945 | 32 | 6.85 | 2007 | 4 | 7.20 | 21.2 | 1.03 | 1.3065 | 170.2 | |
| 84.94 | 0949 | 40 | 6.85 | 2007 | 4 | 7.22 | 21.2 | 1.03 | 1.3065 | 170.4 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7.12 | 1,926 | 2 | 7.35 | 20.95 | 0.098 | 1,250 | 4.3 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | N | |

Sample Time 0950 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turb - 1

Initial Depth to Water (ft BTOC): 84.80 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc ): 120.76

WD (Well Depth - from database) ft btoc (118.3)

SWH (Standing Water Height) = WD-Initial Depth 35.96

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 23.9

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/6/11

Sampler RS Field Team 1 Field Conditions _____ Page _____ of _____

**Well/Sample Number** MW-42B2-011-Q2 **QC Sample ID** NA QC Sample Time _____

Purge Start Time 0853 Purge Method Temp Ded. Pump N

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 31.4 Purge Rate (gpm)/(mLpm) 2

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84.82 | 0857 | 8 | 6.81 | 1745 | 4 | 10.47 | 21.3 | 0.88 | 1.1375 | 132.6 | |
| 84.82 | 0901 | 16 | 6.82 | 1716 | 6 | 10.20 | 21.6 | 0.88 | 1.1280 | 133.2 | |
| 84.82 | 0905 | 24 | 6.83 | 1718 | 5 | 10.23 | 21.6 | 0.88 | 1.1180 | 133.2 | |
| 84.82 | 0909 | 32 | 6.83 | 1717 | 5 | 10.21 | 21.6 | 0.88 | 1.1180 | 133.1 | |
| 84.82 | 0913 | 40 | 6.83 | 1717 | 5 | 10.20 | 21.6 | 0.88 | 1.1180 | 133.3 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/25/2011) | 7.13 | 1,709 | 6 | 6.8 | 20.99 | 0.087 | 1,111 | 13.4 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 0914 Sample Location: pump tubing ✓ well port _____ spigot _____ bailer _____ other _____

Comments: Double Filtered - Post Filter Turb - 2 NTU

Initial Depth to Water (ft BTOC): 84.64 Measure Point: (Well TOC) Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc ): 132.11

WD (Well Depth - from database) ft btoc (129.89)

SWH (Standing Water Height) = WD-Initial Depth 47.47

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 31.4

Three Casing Volumes = _____

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal _____ |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation _____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/6/11

Sampler RS Field Team 1 Field Conditions Hot

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**Well/Sample Number** MW-43-011-Q2 **QC Sample ID** NA QC Sample Time

Purge Start Time 1009 Purge Method Temp Ded. Pump N

Flow Cell (Y) / N Min. Purge Volume (gal)/(L) 34.3 Purge Rate (gpm)/(mLpm) 2

| Water Level | Time | Vol. Purged (gallons) / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 88.11 | 1013 | 8 | 7.04 | 1901 | 6 | 7.15 | 20.6 | 0.97 | 1.2360 | 184.9 | |
| 86.11 | 1017 | 16 | 7.02 | 1899 | 5 | 7.92 | 20.7 | 0.97 | 1.2350 | 182.1 | |
| 86.11 | 1021 | 24 | 7.02 | 1902 | 5 | 7.90 | 20.8 | 0.97 | 1.2350 | 179.5 | |
| 86.11 | 1025 | 32 | 7.02 | 1900 | 5 | 7.93 | 20.8 | 0.97 | 1.2350 | 179.2 | |
| 86.11 | 1029 | 40 | 7.02 | 1901 | 5 | 7.91 | 20.8 | 0.97 | 1.2350 | 178.9 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7.09 | 3,121 | 4 | 7.06 | 20.35 | 0.12 | 1,523 | 13.7 | |
| Are measurements consistent with previous? | Y | N | Y | Y | NA | N | N | ~~Y~~ N | |

Sample Time 1030 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turbidity - 2 NTU
Cond, pH, ORP ✓✓ w/ ultrameter

Initial Depth to Water (ft BTOC): 85.87 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31917

Field measured confirmation of Well Depth (ft btoc ): 137.74

WD (Well Depth - from database) ft btoc (135.3)

SWH (Standing Water Height) = WD-Initial Depth 51.87

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 34.3

Three Casing Volumes =

| Initial DTW / Before Removal | | If Transducer | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV
Sampler RJ Field Team 1 Field Conditions Hot

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/3/11
Page 1 of 1

**Well/Sample Number** MW-50B-011-Q2 **QC Sample ID** MW-934-011-Q2 QC Sample Time 1405

Purge Start Time 1330 Purge Method Temp Ded. Pump ~~MOS~~ N

Flow Cell: Y N Min. Purge Volume (gal)/(L) 52.3 Purge Rate (gpm)/(mLpm) 2

**Collect Equipment Blank: MW-50B-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 86.17 | 1334 | 8 | 7.24 | 1135 | 4 | 5.40 | 22.4 | 0.56 | 0.7390 | 89.2 | |
| 86.17 | 1338 | 16 | 7.15 | 1137 | 3 | 5.38 | 22.4 | 0.56 | 0.7345 | 88.5 | |
| 86.17 | 1342 | 24 | 7.14 | 1136 | 3 | 5.39 | 22.4 | 0.56 | 0.7345 | 89.1 | |
| 86.17 | 1346 | 32 | 7.14 | 1135 | 3 | 5.41 | 22.4 | 0.56 | 0.7345 | 88.4 | |
| 86.17 | 1350 | 40 | 7.14 | 1135 | 3 | 5.35 | 22.4 | 0.56 | 0.7345 | 88.2 | |
| 86.17 | 1354 | 48 | 7.14 | 1137 | 3 | 5.35 | 22.4 | 0.56 | 0.7345 | 88.3 | |
| 86.17 | 1358 | 56 | 7.14 | 1135 | 3 | 5.39 | 22.4 | 0.56 | 0.7345 | 88.1 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/25/2011) | 7.34 | 1,131 | 2 | 5.35 | 22.17 | 0.056 | 733 | -4.6 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 1359 Sample Location: pump tubing ✓ well port ____ spigot ____ bailer ____ other ____

Comments: Double Filtered - Post Filter Turb = 1 NTU
MW-50B-011-Q2-EB @ 1320

Initial Depth to Water (ft BTOC): 85.42 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31817

Field measured confirmation of Well Depth (ft btoc): 164.57

WD (Well Depth - from database) ft btoc (162.1)

SWH (Standing Water Height) = WD-Initial Depth 79.15

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 52.3

Three Casing Volumes =

**If Transducer**

| Initial DTW / Before Removal | | Approx. 5 min After Reinstallation | | Time of Removal |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11

Sampler TR Field Team 1 Field Conditions SUN

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**Well/Sample Number** MW-55A-011-Q2

**QC Sample ID** ~~NA~~ MW-55A-011-Q2-EB QC Sample Time 0800

Purge Start Time 0821

Purge Method TEMP RFZ Ded. Pump

Flow Cell: Y N

Min. Purge Volume (gal)/(L) 50.5 Purge Rate (gpm)/(mLpm) 3

**Collect Equipment Blank: MW-55A-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 91.12 | 0825 | 12 | 7.70 | 839 | 5 | 0.70 | 17.74 | 0.31 | 415 | 24.6 | |
| 91.12 | 0829 | 24 | 7.70 | 838 | 4 | 0.68 | 17.93 | 0.31 | 415 | 21.7 | |
| 91.12 | 0833 | 36 | 7.70 | 835 | 3 | 0.65 | 18.10 | 0.31 | 415 | 20.8 | |
| 91.12 | 0837 | 48 | 7.70 | 835 | 2 | 0.65 | 18.12 | 0.31 | 415 | 18.6 | |
| 91.12 | 0841 | 60 | 7.70 | 835 | 2 | 0.63 | 18.15 | 0.31 | 415 | 18.2 | - DOUBLE FILTERED |
| | | | | | | | | | | | - POST SAMPLE |
| | | | | | | | | | | | TURBIDITY: 1 NTU |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **Parameter Stabilization Criteria** | | | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
| Did Parameters Stablize prior to sampling? | | | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/25/2011) | | | 7.95 | 617 | 2 | 0.99 | 21.99 | 0.03 | 401 | 30.9 | |
| Are measurements consistent with previous? | | | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 0842 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): 91.10

Field measured confirmation of Well Depth (ft btoc ): 167.65

WD (Well Depth - from database) ft btoc (165.52)

SWH (Standing Water Height) = WD-Initial Depth 76.55

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH ~~76~~ 50.52

Three Casing Volumes = 151.5

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31814

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal 0800 |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation 0850 |
| 0800 | 91.10 | 0855 | 91.2 | |
| Comments: | | | | |

**Color:** clear, grey, yellow, brown, black, cloudy, green

**Odor:** none, sulphur, organic, other

**Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/1

Sampler TR Field Team 1 Field Conditions SUN

Page 1 of 1

**Well/Sample Number** MW-55B-011-Q2

**QC Sample ID** ~~NA~~ MW-55B-011-Q2-EB

QC Sample Time 0855

Purge Start Time 0904

Purge Method TEMP RF2 Ded. Pump

Flow Cell (Y)/ N

Min. Purge Volume (gal)/(L) 69.8 Purge Rate (gpm)/(mLpm) 3.5

**Collect Equipment Blank: MW-55B-011-Q2-EB before Purging**

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 31.53 | 0908 | 14 | 7.58 | 542 | 3 | 0.41 | 17.89 | 0.26 | 352 | -130.5 | |
| 31.55 | 0912 | 28 | 7.60 | 542 | 2 | 0.37 | 18.04 | 0.26 | 352 | -138.6 | |
| 31.56 | 0916 | 42 | 7.60 | 542 | 1 | 0.36 | 18.11 | 0.26 | 352 | -140.7 | |
| 31.56 | 0920 | 56 | 7.60 | 542 | 1 | 0.36 | 18.14 | 0.26 | 352 | -142.0 | |
| 31.56 | 0924 | 70 | 7.60 | 543 | 1 | 0.36 | 18.16 | 0.26 | 352 | -142.3 | - DOUBLE FILTERED |
| | | | | | | | | | | | - POST SAMPLE |
| | | | | | | | | | | | TURBIDITY: 0 NTU |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV |
|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y |
| Previous Field measurement (1/25/2011) | 7.63 | 546 | 3 | 0.83 | 22.16 | 0.026 | 355 | -87.5 |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y |

Sample Time 0925 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments:

Initial Depth to Water (ft BTOC): 31.37

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 31814

Field measured confirmation of Well Depth (ft btoc ): 187.10

WD (Well Depth - from database) ft btoc (185.57)

SWH (Standing Water Height) = WD-Initial Depth 105.73

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in)

One Casing Volume = D*SWH 69.8

Three Casing Volumes = 209.4

| Initial DTW / Before Removal | | **If Transducer** | | |
|---|---|---|---|---|
| | | Approx. 5 min After Reinstallation | | Time of Removal |
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV
Sampler RW Field Team 1 Field Conditions Sunny

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11
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**Well/Sample Number** MW-62A-011-Q2 **QC Sample ID** NA QC Sample Time —

Purge Start Time 0815 Purge Method Tyg RP2 Ded. Pump

Flow Cell: (Y) N Min. Purge Volume (gal)/(L) 36.2 Purge Rate (gpm)/(~~mLpm~~) 2 gpm

| Water Level | Time | Vol. Purged gallons Liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 85.81 | 0819 | 8 | 7.09 | 3874 | 8 | 7.45 | 20.91 | 2.14 | 3.250 | 197.3 | |
| 85.79 | 0823 | 16 | 7.08 | 3941 | 6 | 7.30 | 20.99 | 2.14 | 3.091 | 128.4 | |
| 85.79 | 0827 | 24 | 7.08 | 4066 | 6 | 7.30 | 21.11 | 2.15 | 3.062 | 111.9 | |
| 85.79 | 0831 | 32 | 7.07 | 4115 | 5 | 7.24 | 21.19 | 2.15 | 3.055 | 106.7 | |
| 85.79 | 0835 | 40 | 7.06 | 4223 | 4 | 7.27 | 21.22 | 2.15 | 3.049 | 101.3 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7.01 | 4,646 | 2 | 6.95 | 21.2 | 0.253 | 3,045 | 76.4 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 0836 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: 2X Bottles 1N 1U

MW-787-011-Q2 @ 0810

Initial Depth to Water (ft BTOC): 85.49 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc): 140.75

WD (Well Depth - from database) ft btoc (139)

SWH (Standing Water Height) = WD-Initial Depth 54.86

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in) 0.66

One Casing Volume = D*SWH 36.2

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal 0805 |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation 0840 |
| 0805 | | 0845 | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

**Project Name** PGE Hinkley
Job Number 405679.GW.FW.DV
Sampler BB Field Team 1 Field Conditions Hot

**Sampling Event** 2011-DVD-011-Q2
**Date** 5/5/11
Page 1 of 1

**Well/Sample Number** MW-62B-011-Q2 **QC Sample ID** NA QC Sample Time —

Purge Start Time 0915 Purge Method Tmp Rate 2 Ded. Pump —

Flow Cell: Y / N Min. Purge Volume (gal)/(L) 45 Purge Rate (gpm)/(~~mLpm~~) 2.25

**Collect Equipment Blank: MW-62B-011-Q2-EB before Purging** @ 0900

| Water Level | Time | Vol. Purged gallons / liters | pH | Conductivity µS/cm | Turbidity NTU | Diss. Oxygen mg/L | Temp. °C | Salinity ppt | TDS g/L | Eh/ORP mv | Comments (See description below |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 87.81 | 0919 | 9 | 7.45 | 1051 | 6 | 1.13 | 21.03 | 0.52 | 0.682 | -10.1 | |
| 87.81 | 0923 | 18 | 7.44 | 1050 | 2 | 1.11 | 21.14 | 0.52 | 0.682 | -47.6 | |
| 87.81 | 0927 | 27 | 7.42 | 1050 | 2 | 1.10 | 21.19 | 0.52 | 0.682 | -54.6 | |
| 87.81 | 0931 | 36 | 7.42 | 1049 | 2 | 1.09 | 21.22 | 0.52 | 0.682 | -59.9 | |
| 87.81 | 0935 | 45 | 7.42 | 1049 | 2 | 1.09 | 21.29 | 0.52 | 0.682 | -66.9 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| **Parameter Stabilization Criteria** | +/- 0.1 pH units | +/- 3% | +/- 10% NTU units when >10 NTUs | +/- 0.3 mg/L | NA | NA | NA | +/- 10 mV | |
|---|---|---|---|---|---|---|---|---|---|
| Did Parameters Stablize prior to sampling? | Y | Y | Y | Y | NA | Y | Y | Y | |
| Previous Field measurement (1/26/2011) | 7.62 | 1,021 | 2 | 2.55 | 21.46 | 0.051 | 665 | -65.7 | |
| Are measurements consistent with previous? | Y | Y | Y | Y | NA | Y | Y | Y | |

Sample Time 0936 Sample Location: pump tubing X well port ____ spigot ____ bailer ____ other ____

Comments: 2X Filter = 1 NTU

Initial Depth to Water (ft BTOC): 87.63 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: ____

Field measured confirmation of Well Depth (ft btoc ): 155.68

WD (Well Depth - from database) ft btoc (153)

SWH (Standing Water Height) = WD-Initial Depth 68.05

D (Volume as per diameter) 2"= 0.17, 4"= 0.66, 1"=0.041 (4 in) 0.66

One Casing Volume = D*SWH 45

Three Casing Volumes = ____

| Initial DTW / Before Removal | | If Transducer: Approx. 5 min After Reinstallation | | Time of Removal ____ |
|---|---|---|---|---|
| Time | Initial DTW | Time | Final DTW | Time of Reinstallation ____ |
| | | | | |

Comments:

**Color:** clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand