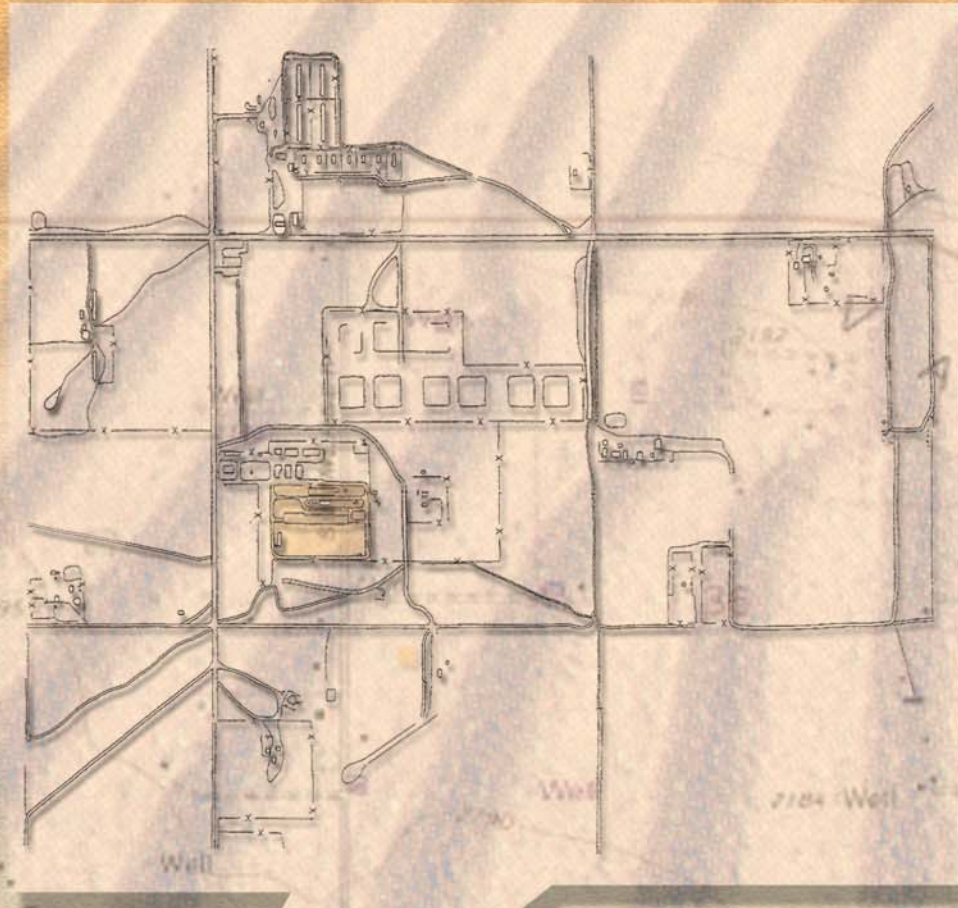


CH2MHILL GROUNDWATER BACKGROUND STUDY
(On Compact Disc)

(A complete paper copy of this report, “Groundwater Background Chromium Study Report, Hinkley Compressor Station”, prepared by CH2MHILL in February 2007 is available at the project document repositories)

*G*roundwater Background Study Report Hinkley Compressor Station, Hinkley, California



Prepared for



Pacific Gas and Electric Company
California Gas Transmission

Prepared by

CH2MHILL

February 2007



Eric P. Johnson
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February 28, 2007

Mr. Chuck Curtis
Supervising Engineer
California Regional Water Quality Control Board, Lahontan Region
2501 Lake Tahoe Boulevard
South Lake Tahoe, California 96150

Subject: Background Study Report (February 2007)
Groundwater Remediation Project (Global ID #SL0607111288)
Pacific Gas and Electric Company Compressor Station
Hinkley, California

Dear Mr. Curtis:

Enclosed is the *Background Study Report* for the Hinkley site (Global ID #SL0607111288) in accordance with requirements by the California Regional Water Quality Control Board, Lahontan Region.

Please call me at (530) 896-4285 if you have any questions regarding this report.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Eric Johnson', is written over the word 'Sincerely,'.

Eric Johnson
Hinkley Remediation Project Manager
Gas Transmission and Distribution

Enclosure

cc: Mike Plaziak/RWQCB Lahontan Region, Victorville
Lisa Dernbach/RWQCB Lahontan Region, South Lake Tahoe

Final Report

Groundwater Background Study Report

**Hinkley Compressor Station,
Hinkley, California**

Prepared for

**Pacific Gas and Electric Company
California Gas Transmission**

February 28, 2007



CH2MHILL

155 Grand Avenue
Suite 1000
Oakland, CA 94612

Groundwater Background Study Report

**Hinkley Compressor Station,
Hinkley, California**

Prepared for

**Pacific Gas and Electric Company
California Gas Transmission**

February 28, 2007

Prepared by

CH2M HILL

This report was prepared under supervision of a
California-registered Professional Geologist



Tess Byler, P. G.
Expiration: November 2008



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Acronyms and Abbreviations

$\delta^{53}\text{Cr}$	ratio of ^{53}Cr to ^{52}Cr
$\delta^{53}\text{Cr-Cr}$	ratio of $\delta^{53}\text{Cr}$ to Cr(VI)
$\mu\text{g/L}$	micrograms per liter
ADEQ	Arizona Department of Environmental Quality
ANOVA	analysis of variance
bgs	below ground surface
BLM	Bureau of Land Management
CDHS	California Department of Health Services
Cr(III)	trivalent chromium
Cr(T)	total chromium
Cr(VI)	hexavalent chromium
ft/ft	foot per foot
ICM	inductively coupled plasma mass spectrometry
LCL	lower control limit
LCS	laboratory control sample
LTU	Land Treatment Unit
mg/L	milligram per liter
MLE	maximum likelihood estimate
PG&E	Pacific Gas and Electric Company
RASA	Regional Aquifer System Analysis
RPD	relative percent-difference
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UTL	upper tolerance limit
Water Board	California Regional Water Quality Control Board, Lahontan Region

Executive Summary

This report satisfies requirements for a study of background chromium conditions in groundwater near Pacific Gas and Electric Company's natural gas compressor station in Hinkley, California.

Process: Forty-eight wells were sampled for total chromium (Cr[T]) and hexavalent chromium (Cr[VI]), as well as additional geochemical parameters, during four rounds of groundwater sampling performed in 2006. The analytical results for all wells in the data set were analyzed for hydrogeochemical similarities, temporal trends, mathematical outliers, and data set balance to ensure that each sample could be considered representative of the background area. No samples were eliminated from the background data set. The background study also included analysis of stable chromium isotopes by the United States Geological Survey (USGS).

Results: Forty-three of the 48 wells sampled during the study exhibited Cr(T) or Cr(VI) detections during at least one of the sampling events. The maximum detected Cr(T) value was 3.15 micrograms per liter ($\mu\text{g}/\text{L}$). The maximum detected Cr(VI) value was 2.69 $\mu\text{g}/\text{L}$.

The individual Cr(T) and Cr(VI) results at each well were averaged to determine a representative concentration for each well. These averages were used in the statistical evaluation of the background data set. The maximum likelihood estimate approach was used to determine the mean and standard deviation for the Cr(T) and Cr(VI) data sets. The data were evaluated using statistical methods, and both Cr(T) and Cr(VI) data were determined to be best represented by a normal distribution.

The 95th percent upper tolerance limits (UTLs) calculated using the well average data are 3.23 $\mu\text{g}/\text{L}$ for Cr(T), and 3.09 $\mu\text{g}/\text{L}$ for Cr(VI).

Using these UTL values and multiplying by the percent uncertainty in the respective USEPA analytical test methods for Cr(T) and Cr(VI), the recommended background threshold values are 4.04 $\mu\text{g}/\text{L}$ for Cr(T), and 3.55 $\mu\text{g}/\text{L}$ for Cr(VI). These values are based on the 95th percent UTL plus the percent uncertainty (+/- 25 percent and +/- 15 percent, respectively) introduced by the analytic methods used in Cr(T) and Cr(VI) analysis.

If chromium concentrations above these values are found in the future, a closer examination of the local geochemical environment would be necessary to determine whether the sample concentration is natural or anthropogenic in nature. It would be statistically appropriate to compare the UTL values to well averages for up to four quarters of data.

In addition to Cr(T) and Cr(VI) sampling, the USGS evaluated the chromium isotope ratios in samples collected in 15 wells. The results of this investigation indicate that chromium isotope ratios were not useful to delineate the specific chromium degradation pattern within the plume, or to differentiate anthropogenic versus non-anthropogenic concentrations of Cr(VI).

Recommendations: No additional data collection activities are recommended at this time. However, future evidence may indicate additional analysis is appropriate.

1.0 Introduction

The purpose of this background study was to estimate the concentration of naturally-occurring total chromium [Cr(T)] and hexavalent chromium [Cr(VI)] in groundwater near the Pacific Gas and Electric Company (PG&E) natural gas compressor station in Hinkley, California (Figure 1-1).

In July 2002, PG&E submitted a technical memorandum titled *Scope of the Background Chromium Study at the PG&E Compressor Station, Hinkley, California* to the California Regional Water Quality Control Board, Lahontan Region (Water Board) (CH2M HILL, 2002). In November 2003, the Water Board sent the background study proposal to three University of California professors for review. The results of the three reviews were transmitted to PG&E in a letter dated March 5, 2004 (Water Board, 2004a). All three reviewers provided comments and agreed that the planned study was appropriate. These comments were incorporated into the *Revised Background Chromium Study Work Plan, PG&E Compressor Station, Hinkley, California* (work plan) (CH2M HILL, 2004a). This document also incorporates requirements by the Water Board as specified in their acceptance of the work plan (Water Board, 2004b).

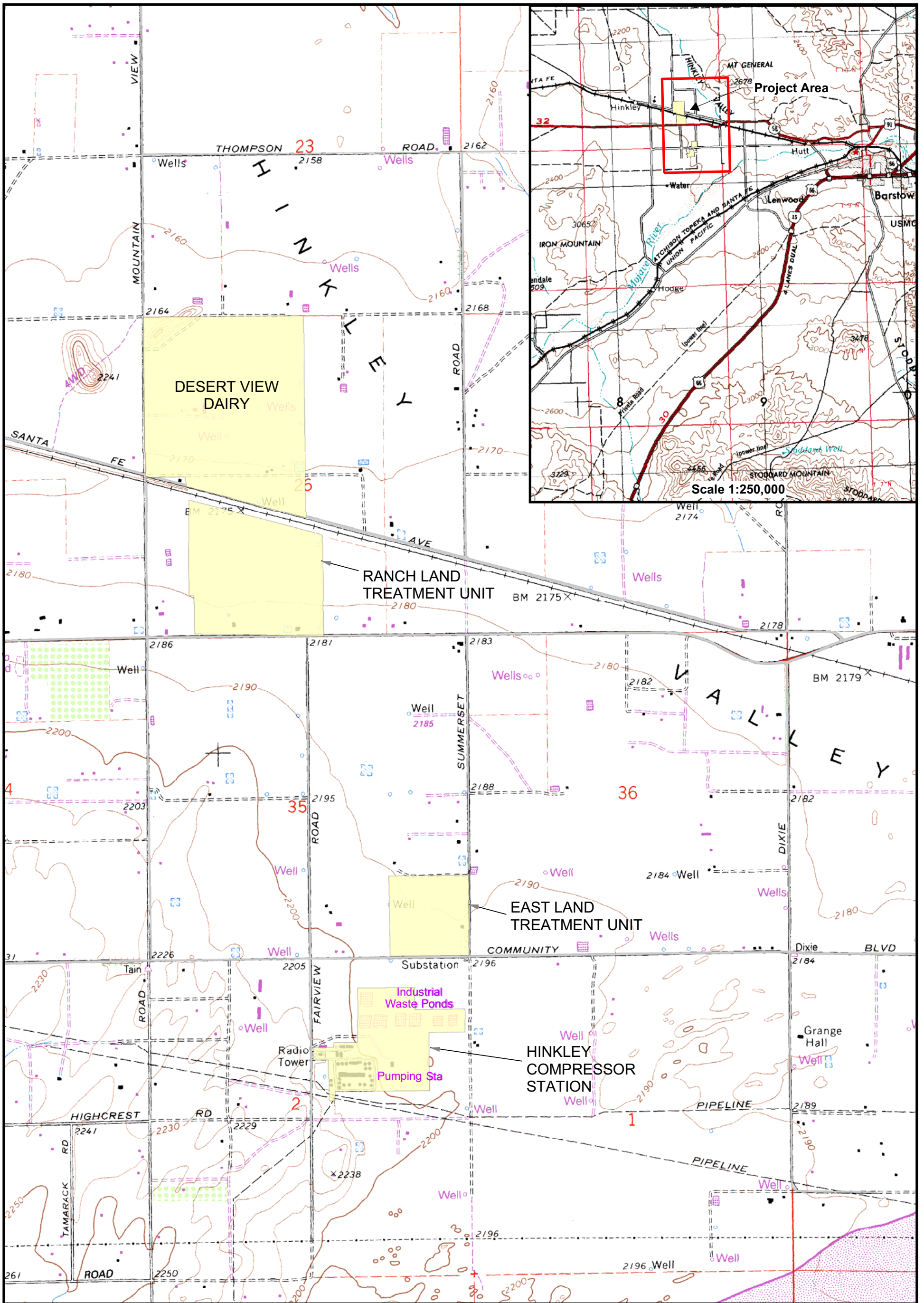
The results of the first two quarters of background study sampling were summarized in an interim letter report from PG&E (PG&E, 2006). This report presents all the sampling results from the Hinkley background study (background study), evaluates these results for inclusion into the background study data set, and uses this data set to calculate the background Cr(VI) and Cr(T) concentrations in groundwater in the study area.

1.1 Background Study Process


The process for identifying and evaluating potential background wells and for calculating background chromium concentrations in groundwater included:

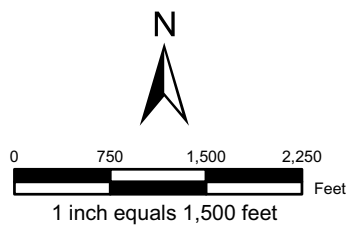
- Selection of potential background wells and initial sampling.
- Well network expansion and additional sampling.
- Data evaluation.
- Estimation of Cr(T) and Cr(VI) background concentrations.

Selection of Potential Background Wells and Initial Sampling: The first step of the background study field program included a records search to identify wells for potential inclusion in the background study. These results were presented to the Water Board in the Well Survey Report (CH2M HILL, 2005). After an initial site reconnaissance, potential background wells were presented to the Water Board in a meeting in August 2005. The Water Board requested the inclusion of additional wells located hydraulically upgradient of the compressor station, and requested that all selected wells be located in the Hinkley Valley Target Background Area, shown on Figure 1-2.



Source:
USGS Map, Hinkley Quadrangle,
7.5 Minute Series. 1971 (Revised 1993)

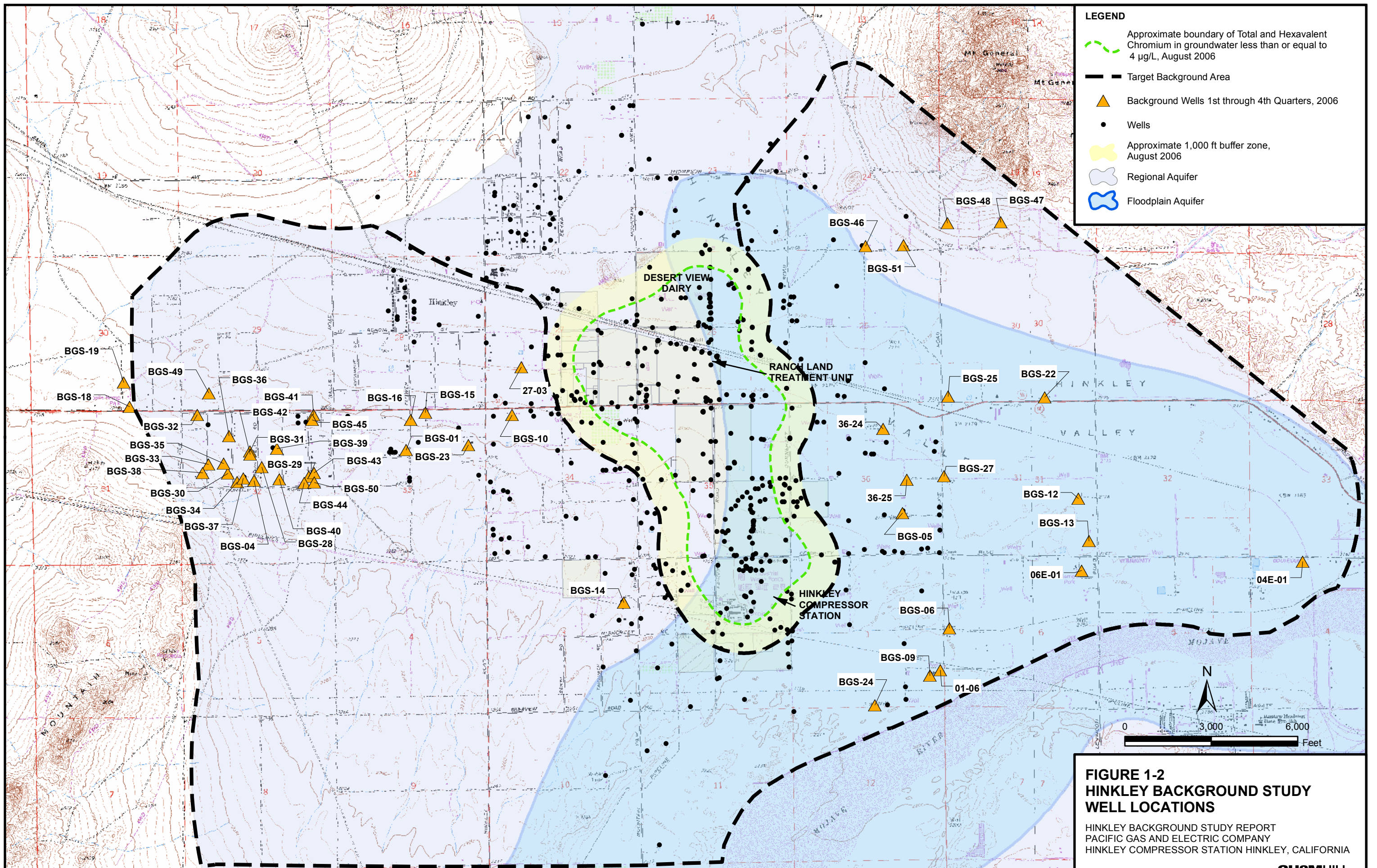
Legend
 PG & E Property



**FIGURE 1-1
SITE LOCATION MAP**

HINKLEY BACKGROUND STUDY REPORT
 PACIFIC GAS AND ELECTRIC COMPANY
 HINKLEY COMPRESSOR STATION, HINKLEY, CALIFORNIA

CH2MHILL



PG&E performed a second and third site reconnaissance in October and November 2005 to satisfy Water Board requests. Accessible wells were sampled as part of the first background study event in January 2006. The second background study event took place in April, 2006. Analytical results from the first two sampling events were presented to the Water Board in a letter report dated June 30, 2006 (PG&E, 2006).

Well Network Expansion and Additional Sampling: The work plan (CH2M HILL, 2004a) specified that discrete depth groundwater samples be collected to determine if small scale-variations in chromium concentrations occurred at varying depths. The United States Geological Survey (USGS) previously documented that site-specific concentration values could be as high as 36 micrograms per liter ($\mu\text{g/L}$), based on results for discrete depth samples collected in alluvial deposits weathered from granitic, volcanic, and metamorphic rock (Ball and Izbicki, 2004). However, it was apparent after the second sampling event for this study that discrete-depth data could not be collected due to well access limitations. The work plan assumed that large-diameter agricultural wells would be available for discrete-depth sampling methods, but the vast majority of these wells contained submerged debris or had been filled in and abandoned entirely.

To compensate for the lack of discrete-depth-samples, PG&E proposed to expand the background study well network. This was done to create a larger data set, thereby providing more information on the natural variation in Cr(T) and Cr(VI) concentrations in the study area. A door-to-door survey of residents within the study area was conducted in conjunction with the third background study sampling event to identify supplementary wells for the background study. An additional 30 wells were identified for inclusion in the study, and these wells were sampled during the third and fourth sampling events.

Data Evaluation: Data evaluation was conducted consistent with the work plan and consisted of:

- A review of geochemical data to evaluate each well's suitability for inclusion into the final background data set.
- Statistical tests to identify potential outliers in the background data set.

Estimation of Background Concentration: Using the final background study data set, a 95th percent upper tolerance limit (UTL) was calculated for both Cr(T) and Cr(VI) using procedures specified in the work plan. These UTLs were then multiplied by the percent uncertainty in the respective USEPA analytical test methods for Cr(T) and Cr(VI) to produce a recommended background threshold value. These background threshold values were then compared with other studies of chromium in and around the Mojave Desert.

1.2 Report Structure

The remainder of this report is organized as follows:

- Section 2.0 describes the site setting based on data collected since the 2004 work plan and includes water budget and wind rose information.
- Section 3.0 describes the background study data collection activities and provides a data quality review.
- Section 4.0 summarizes the final validated analytical results. This section also discusses the results of a chromium isotope study performed by the USGS.
- Section 5.0 presents a geochemical and statistical evaluation of the data to determine the final background data set.
- Section 6.0 presents the 95th percent UTLs for Cr(T) and Cr(VI) in the study area, multiplies those UTLs by the percent uncertainty in the respective USEPA analytical test methods for Cr(T) and Cr(VI), and places these values in context with other chromium studies performed in the Mojave Desert.
- Section 7.0 provides conclusions of the background study.
- Section 8.0 provides references cited in this report.

2.0 Site Setting

This section synthesizes information that has been collected for the Hinkley study area since the work plan (CH2M HILL, 2004a) was developed in 2004 and provides information on water budgets and wind rose data as required by the Water Board.

2.1 Physical Features

2.1.1 Surface Features

The Mojave River basin in west-central San Bernardino County is characterized by approximately north-south trending parallel fault block mountains separated by alluvial valleys (USGS, 2004). The Mojave River groundwater basin contains unconsolidated alluvial and floodplain sediments composed of sands, gravels, silts and clays.

The Hinkley Valley is defined as the region within the Mojave River basin located north of the Mojave River, bounded to the west by Iron Mountain and to the northeast by Mount General and Waterman Hills. The topography in the valley generally slopes gently to the north towards Harper Lake (Figure 2-1).

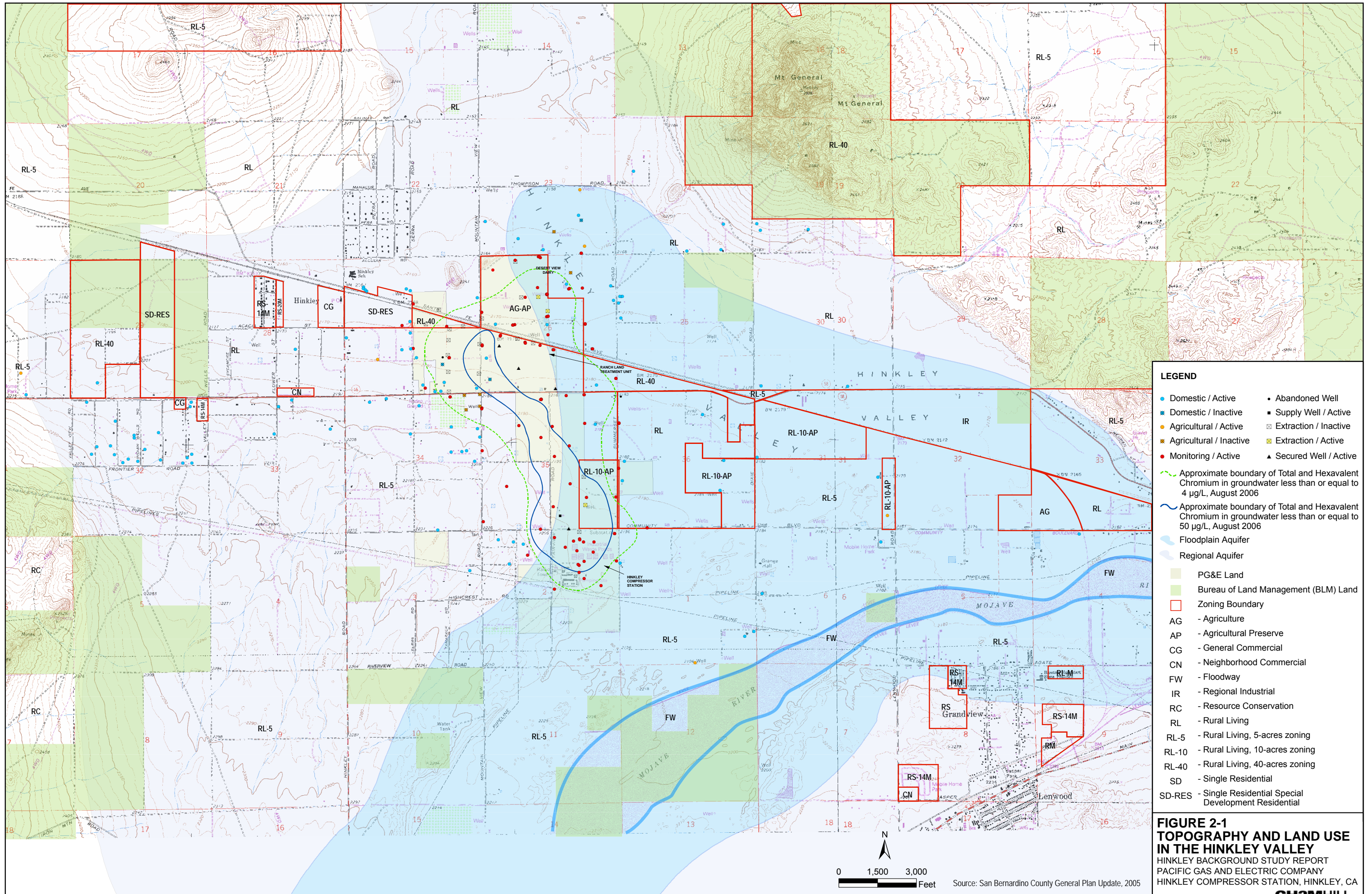
The Target Background Area is also shown on Figure 2-1. This area consists of the Hinkley Valley bounded by the Mojave River on the south and consolidated rock to the east and west. It excludes the area within 1,000 feet of the groundwater plume and the entire area downgradient of the plume.

2.1.2 Land Use

The land use in the Hinkley Valley is shown on Figure 2-1. The central portion of the Hinkley Valley is private unincorporated land, with Bureau of Land Management (BLM) lands flanking the valley margin. The predominant land use is Rural Living, typically separated into 5- to 40-acre plots, with areas of Agricultural and Agricultural Preserve lands. In addition, significant Resource Conservation areas exist in the western and eastern portions of the Hinkley Valley, generally on the BLM lands (County of San Bernardino, 2005).

2.1.3 Meteorology/Climatology

The climate of the Mojave River basin is characterized by low precipitation, low humidity, and high summer temperatures. The typical amount of rainfall is less than 5 inches per year, and the evaporation rates are near 100 inches per year. Wind Rose diagrams, which indicate the predominant wind directions, are included in Appendix A. The wind direction is generally westerly, including west-northwest and west-southwest, with less frequent southwest directions.



LEGEND

- Domestic / Active
- Domestic / Inactive
- Agricultural / Active
- Agricultural / Inactive
- Monitoring / Active
- Abandoned Well
- Supply Well / Active
- Extraction / Inactive
- Extraction / Active
- ▲ Secured Well / Active

- - - - - Approximate boundary of Total and Hexavalent Chromium in groundwater less than or equal to 4 µg/L, August 2006
 ~ ~ ~ ~ ~ Approximate boundary of Total and Hexavalent Chromium in groundwater less than or equal to 50 µg/L, August 2006

- Light Blue Area: Floodplain Aquifer
- Light Blue Area: Regional Aquifer
- Light Green Area: PG&E Land
- Light Green Area: Bureau of Land Management (BLM) Land
- Red Outline: Zoning Boundary
- AG - Agriculture
- AP - Agricultural Preserve
- CG - General Commercial
- CN - Neighborhood Commercial
- FW - Floodway
- IR - Regional Industrial
- RC - Resource Conservation
- RL - Rural Living
- RL-5 - Rural Living, 5-acres zoning
- RL-10 - Rural Living, 10-acres zoning
- RL-40 - Rural Living, 40-acres zoning
- SD - Single Residential
- SD-RES - Single Residential Special Development Residential

FIGURE 2-1
TOPOGRAPHY AND LAND USE
 HINKLEY BACKGROUND STUDY REPORT
 PACIFIC GAS AND ELECTRIC COMPANY
 HINKLEY COMPRESSOR STATION, HINKLEY, CA

0 1,500 3,000 Feet
 Source: San Bernardino County General Plan Update, 2005

The Water Board requested an analysis of potential chromium deposition from past cooling water tower operations in this report (Water Board, 2004b). As discussed with the Water Board on February 2, 2005, wind deposition is not a complete pathway for chromium in groundwater at the Hinkley site because rainfall is not a significant component of groundwater recharge (USGS, 2001). Irrigated fields may return water to the aquifer; however, in this process, any Cr(VI) in the water is converted to trivalent chromium (Cr(III)), which precipitates out in soil. This is the same bioremediation process that is used at the Desert View Dairy Land Treatment Unit (LTU) and that was used at the former East and Ranch LTUs.

2.2 Hydrogeology

2.2.1 Regional Hydrogeology

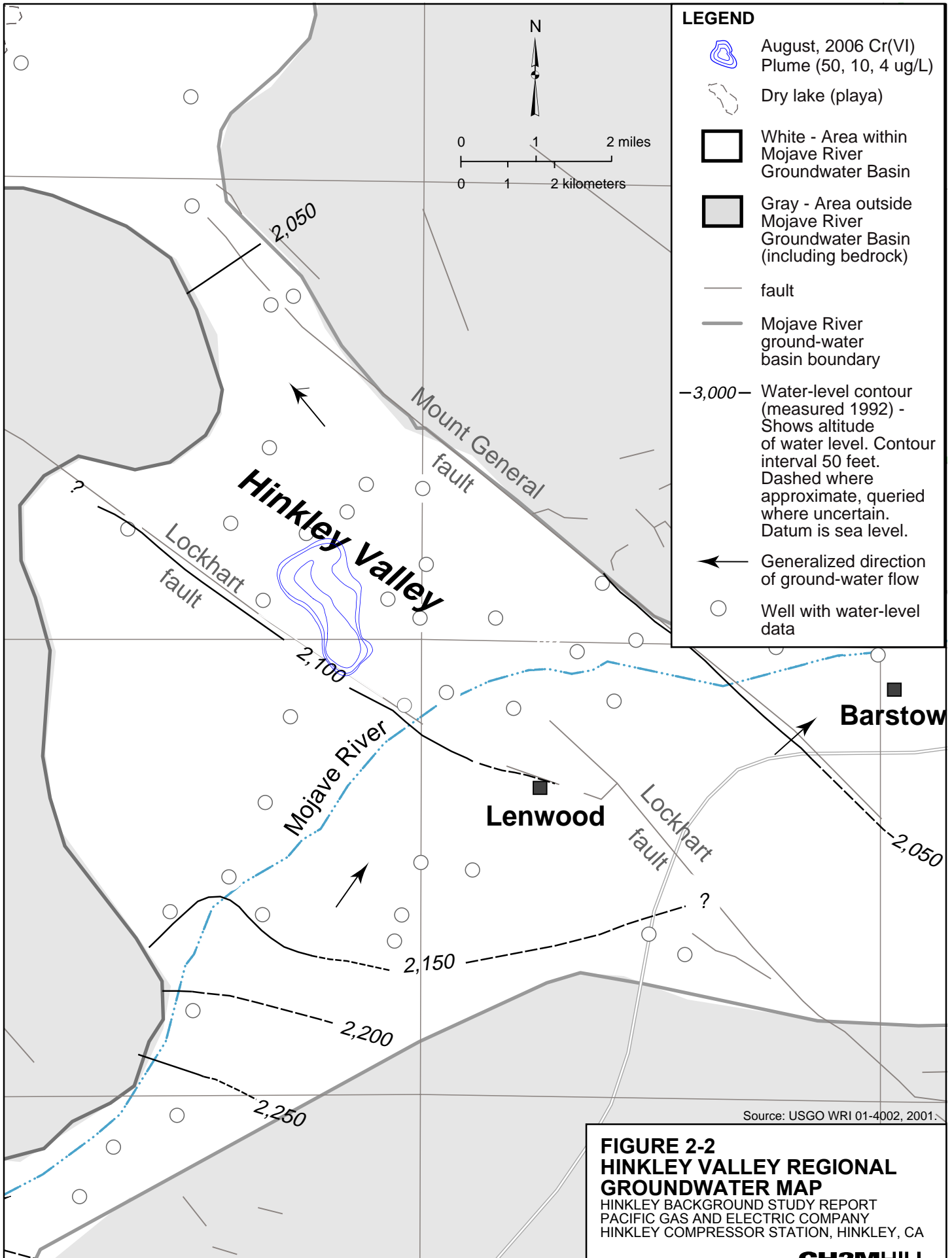
The USGS considers the entire Mojave River groundwater basin to be topographically enclosed. The Mojave River contributes more than 80 percent of the natural groundwater recharge to the basin, and the groundwater drains toward regional playas (USGS, 2001). Within the Hinkley Valley, groundwater drains to the north into the Harper Lake Playa. Figure 2-2 illustrates the generalized regional flow pattern of groundwater in the Mojave River groundwater basin.

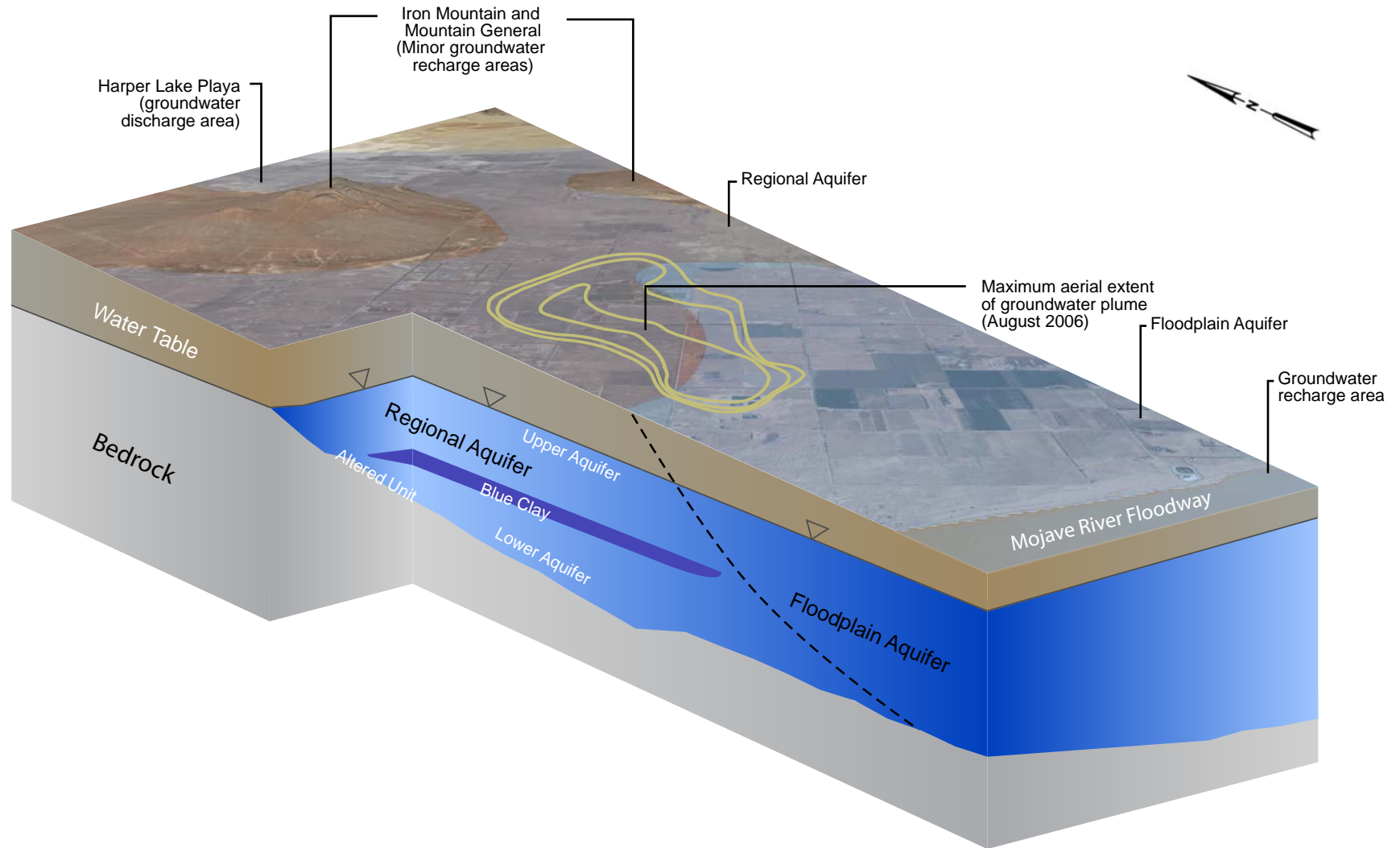
To establish the source and movement of the groundwater in the Mojave River groundwater basin, the USGS performed an analysis of the tritium composition of the groundwater (USGS, 2001). Groundwater containing detectable tritium entered the aquifer after 1952, and groundwater that did not contain tritium entered the aquifer before 1952. The results of this tritium analysis prompted the USGS to estimate the lateral boundaries of two hydraulically-connected aquifers within the Mojave groundwater basin: the Floodplain Aquifer and the Regional Aquifer (see Figure 2-1). Most of the wells that contained detectable tritium are located within the Floodplain Aquifer. Generally, the Floodplain Aquifer is composed of past and current Mojave River deposits. The Regional Aquifer, which surrounds and underlies the Floodplain Aquifer, is generally composed of unconsolidated alluvial fan deposits from the surrounding mountains.

The PG&E Hinkley Compressor Station is located in an area overlying the Floodplain Aquifer. The groundwater chromium plume (Figure 2-1) is located over areas estimated by the USGS to be part of both the Regional and Floodplain Aquifers.

2.2.2 Site Hydrogeology

Hydrostratigraphy: The hydrostratigraphy of the study area is generally divided into two additional depth-specific aquifers: the Upper Aquifer and the Lower Aquifer. The Upper Aquifer, which includes the Floodplain Aquifer and portions of the Regional Aquifer, is underlain by a low-permeability aquitard, referred to as the Blue Clay. Below the Blue Clay is the deeper, semi-confined water-bearing zone, referred to as the Lower Aquifer. Below the Lower Aquifer is a granitic bedrock unit. A generalized conceptual diagram of local geology and groundwater is shown on Figure 2-3.





Not to scale; vertical extent of groundwater plume is limited to portions of the Upper Aquifer (includes both Regional and Floodplain Aquifer) as defined by USGS 2001.

**FIGURE 2-3
GENERALIZED CONCEPTUAL DIAGRAM
OF LOCAL GEOLOGY AND GROUNDWATER
IN THE HINKLEY VALLEY**
HINKLEY BACKGROUND STUDY REPORT
PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION, HINKLEY, CA

The Blue Clay becomes thinner to the west, where the underlying bedrock is shallower, and is absent in the study area approximately west of Mountain View Road and north of Highway 58. In these areas, the Upper Aquifer is underlain directly by bedrock. The Blue Clay is also absent within a few hundred feet of the current Mojave River channel (Figure 2-3). In this area, the depth to bedrock is greater than 300 feet below ground surface (bgs), with generally coarse-grained sediments encountered to bedrock.

The Lower Aquifer is a permeable stratum below the Blue Clay. This includes calcareous sedimentary rock and highly weathered, decomposed, and fractured bedrock that exists as the transitional interface above the granitic bedrock. The Lower Aquifer thickens to the east.

Granitic bedrock is encountered at depths of 100 to 150 feet bgs in the northwest portion of the study area. The depth to bedrock increases significantly in the eastern and southern portion of the site to as deep as 300 feet bgs.

Structural Features: The predominant geologic features of the Hinkley Valley are two regional faults: the Lockhart and Mount General faults (see Figure 2-2). The Lockhart Fault is located within the southwest portion of the Hinkley Valley as a northwest-trending, right-lateral, strike-slip fault (USGS, 2001). The Lockhart Fault is Quaternary-aged, with no evidence of historic or Holocene Fault movement or surface offset within the study area. The Lockhart fault and other strike-slip faults in the Mojave River groundwater basin have been characterized as barriers or partial barriers to groundwater flow (USGS, 2001; DWR, 2003). In the Hinkley Valley, the Lockhart Fault is considered to impede but not prevent groundwater flow, transmitting some flow component to the north. It is interpreted as a leaky boundary in the groundwater flow model (Appendix B). This interpretation is corroborated by the evaluation of general water chemistry presented in Section 5.0, which indicates one mixed aquifer. The Mount General Fault coincides with the eastern boundary of the Hinkley Valley study area.

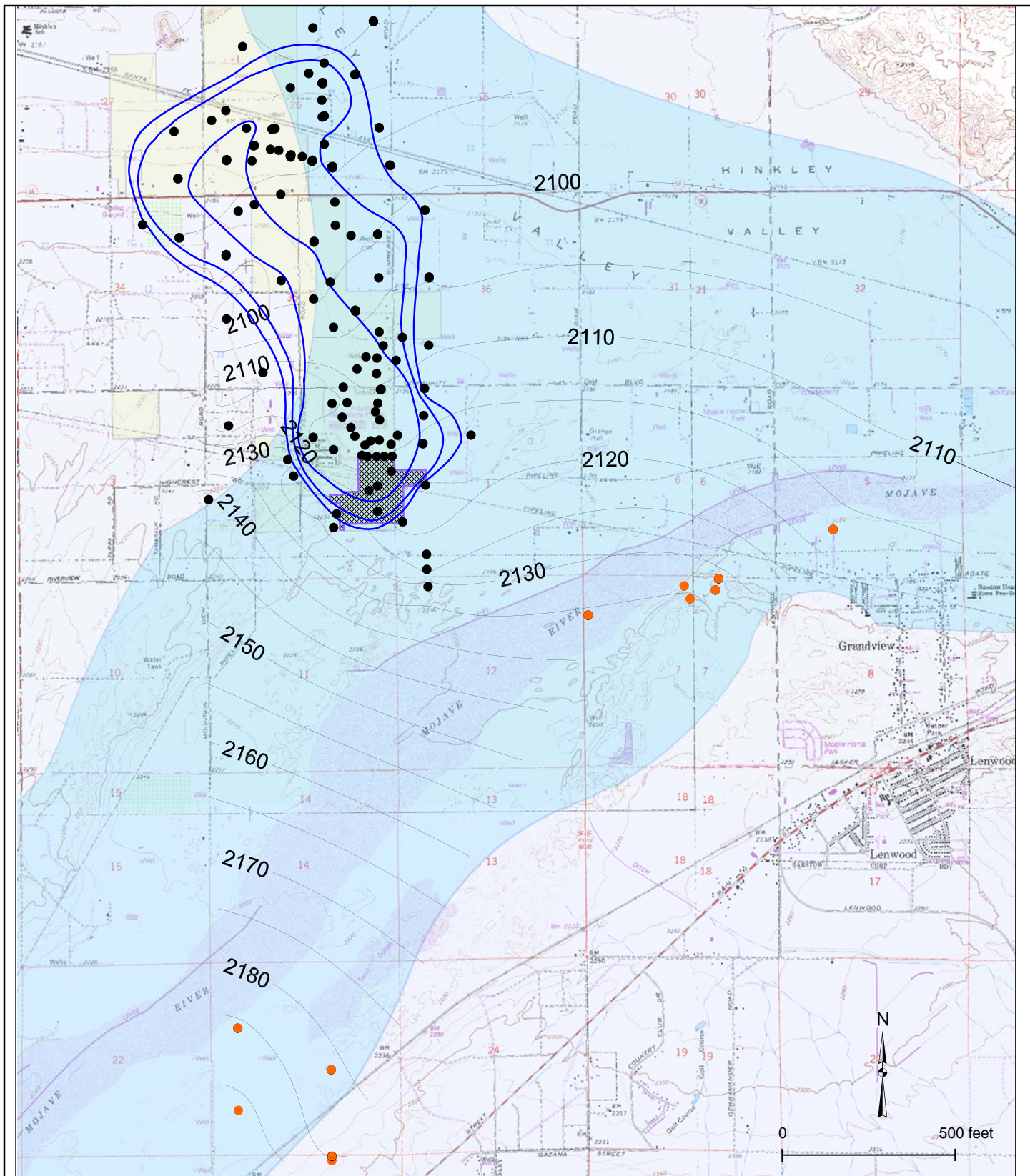
Groundwater Flow: Water table contours from the Mojave River to the northern portion of the site were constructed using groundwater-level data collected from site monitoring wells on February 13, 2006 and water-level data from USGS wells measured on February 2-3, 2006 (Appendix B and Figure 2-4).

The depth to groundwater ranges from approximately 75 to 102 feet bgs. The saturated Upper Aquifer thickness ranges from approximately 25 feet (northwest area along Mountain View Road) to approximately 100 feet (eastern areas north of Highway 58).

Lateral gradients range from 0.002 feet per foot (ft/ft) to 0.004 ft/ft across the study area, generally flowing in a north-northwesterly direction from the compressor station to the northern end of the study area (Figure 2-4).

2.2.3 Water Budget

The water budget for the Hinkley Valley provides a basis for understanding the source of and uses of groundwater in the Hinkley Valley and provides an overall view of the fluxes within the groundwater system.



Legend

- August 2006 Cr (T) boundary (50, 10, 4 ug/L)
- Floodplain Aquifer
- Regional Aquifer
- 2100 —** February 2006 Groundwater Contours (5 ft interval)
- Project Well
- Well from USGS Monitoring Network

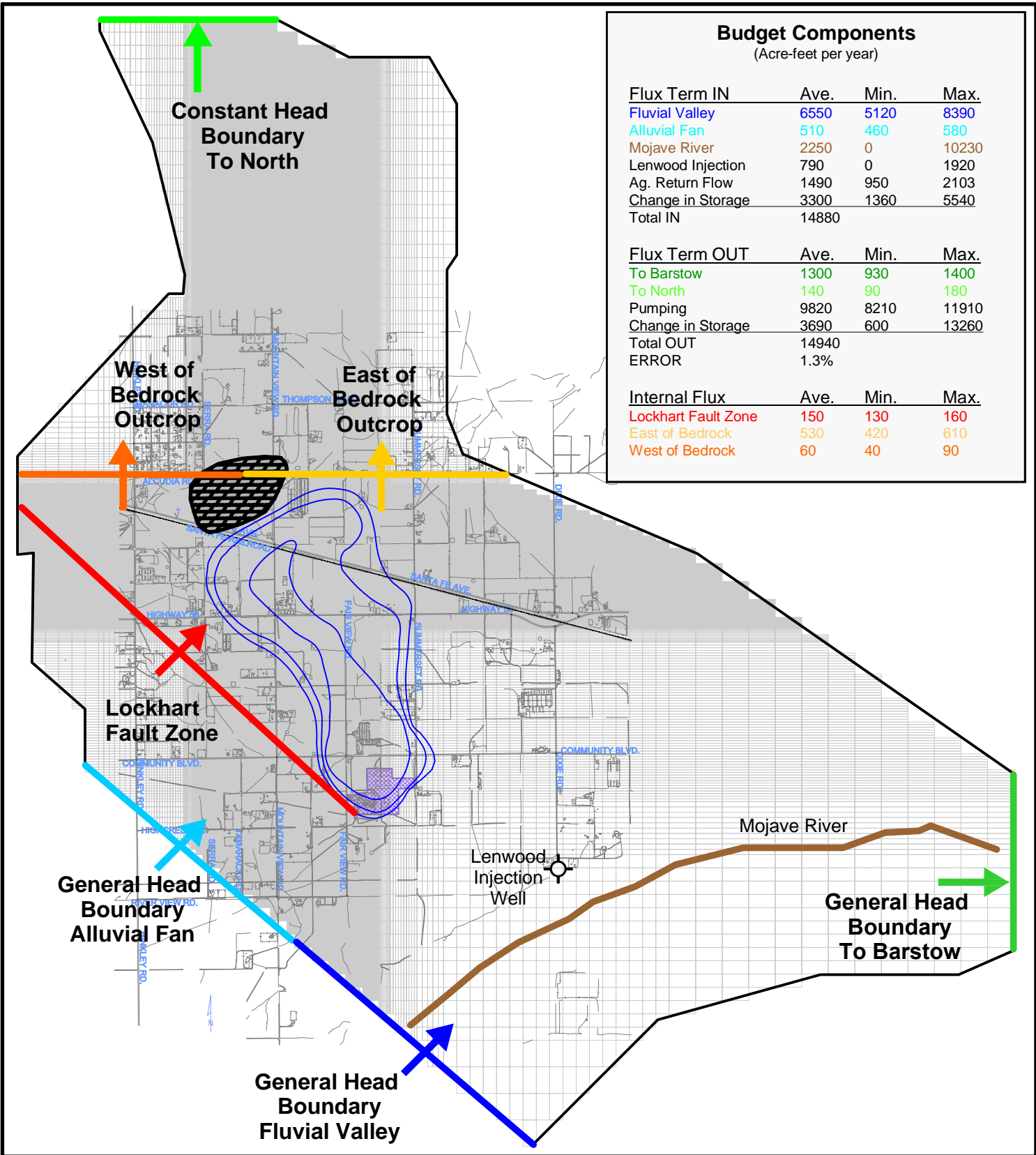
**FIGURE 2-4
OBSERVED GROUNDWATER CONTOURS
AND HORIZONTAL GROUNDWATER FLOW
IN THE HINKLEY VALLEY**




HINKLEY BACKGROUND STUDY REPORT
PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION, HINKLEY, CA

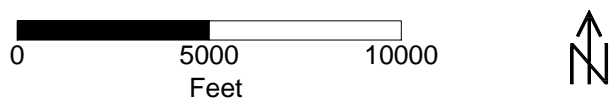
This evaluation of water budget is based on a numerical groundwater flow model that was developed by PG&E for the Hinkley Site (Appendix B). The model domain is shown on Figure 2-5. Although the model domain does not include some portions of the Target Background Study Area, the water budget evaluation results can be extrapolated to these areas.

Figure 2-5 details the estimated volumes of each component of the water budget. To quantify water budget components, the groundwater flow model was run for water-years 1997 through 2005. Groundwater pumping rates for this period were obtained from the Mojave Watermaster. Domestic pumping for some residential areas was estimated based on published values for typical single-family household domestic water use.

Water budget values were calculated as the yearly average for the period stated above (see Figure 2-5). On average, about 7,000 acre-feet of groundwater entered the modeled area from the south each year. About 20 percent of this subsurface flow continued eastward toward Barstow, and about 2 percent flowed out of the model boundary to the north toward Harper Lake Playa. The bulk of the groundwater inflow was pumped for irrigation or domestic use.



-  Approximate local extent of bedrock in Upper Aquifer
-  August 2006 Cr (T) boundary (50, 10, 4 ug/L)
-  Model Boundary: No Flow Boundaries



**FIGURE 2-5
MODEL GRID BOUNDARY CONDITIONS
AND AVERAGE YEARLY FLUX
RATES (ACRE-FEET PER YEAR)
WATER YEARS 1997 - 2005**

HINKLEY BACKGROUND STUDY REPORT
PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION, HINKLEY, CA

3.0 Data Collection Activities

This section summarizes the field sampling program and data validation for the background study sampling events. The sampling schedule is summarized by well in Table 3-1.

3.1 Field Sampling Program

The Hinkley background study data set included samples collected from 48 wells that are representative of groundwater quality in the study area. The following summarizes the sampling program:

- **First Event:** The first background study sampling event was performed between January 30 and February 2, 2006. Seventeen wells were sampled and analyzed for Cr(T), Cr(VI), and additional general chemistry and trace metal analytes.
- **Second Event:** The second sampling event was performed between April 24 and 27, 2006 and included the 17 wells from the first event and one additional well (BGS-19).

Discrete depth samples also were collected at two wells (Wells 36-01 and BGS-24). The KABIS Sampler® was used in well 36-01, which is located outside the Target Background Study Area. A portable Grundfos pump was used in BGS-24, which is located within the Target Background Study Area. No other wells were accessible for discrete-depth sampling.

An additional 10 wells were sampled for chromium isotope analysis.

- **Third Event:** The third sampling event was performed July 24 to 27 and September 26 to 28, 2006. Because discrete-depth samples could not be collected as proposed in the work plan, further reconnaissance was performed as part of the third event to identify additional wells in the study area. In all, 45 wells were sampled for Cr(T) and Cr(VI) as part of the third background study event.

The pump in one well, BGS-05, had failed since the last sampling event, so this well was not sampled during the third or fourth background study sampling events.

Four additional wells were sampled for chromium isotope analysis, per a request from the USGS.

- **Fourth Event:** The fourth quarter sampling event (performed October 23 to 25 and November 13 to 15, 2006) included 38 wells. Nine of the third-sampling-event wells were not sampled during the fourth sampling event due to lack of access or mechanical pump failure in the wells. Two new wells (BGS-50 and BGS-51) were added during this event because access was granted.

One new well (MW-36) and one previously sampled well (MW-18) were sampled for chromium isotope analysis.

TABLE 3-1

Hinkley Background Study Quarterly Monitoring Schedule and Well Information
 Hinkley Valley Groundwater Background Study Report
 Hinkley Compressor Station, Hinkley, CA

Well Identification, Type, and Status			Well Construction Details						Monitoring Schedule				
Well ID	Well Type	Well Status	Total Depth (ft bgs)	Depth to Top of Screen (ft bgs)	Depth to Bottom of Screen (ft bgs)	Screened Interval (ft)	Mojave River Basin Aquifer	Aquifer Zone	Source of Well Info	Quarter 1	Quarter 2	Quarter 3	Quarter 4
01-06	Domestic Well	Active	78.5	55	78	23	Floodplain	Upper	Boring Log			X	
04E-01	Domestic Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A			X	X
06E-01	Domestic Well	Active	300	80	300	220	Floodplain	Upper & Lower	Boring Log			X	X
27-03	Agricultural Well	Active	143	UNK	UNK	UNK	Regional	UNK	N/A			X	
36-24	Domestic Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A			X	
36-25	Domestic Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A			X	
BGS-01	Domestic Well	Active	155	90	150	60	Regional	Upper	Boring Log	X	X	X	X
BGS-04	Domestic Well	Active	153	83	153	70	Regional	Upper	Boring Log	X	X	X	X
BGS-05	Domestic Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A	X	X		
BGS-06	Domestic Well	Active	200	100	200	100	Floodplain	Upper & Lower	Boring Log	X	X	X	X
BGS-09	Domestic Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A	X	X	X	X
BGS-10	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A	X	X	X	X
BGS-12	Domestic Well	Active	251	86	246	160	Floodplain	Upper & Lower	Boring Log	X	X	X	X
BGS-13	Agricultural Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A	X	X	X	
BGS-14	Domestic Well	Active	195	80	195	115	Regional	Upper & Lower	Well Owner	X	X	X	X
BGS-15	Domestic Well	Active	120	90	120	30	Regional	Upper	Well Owner	X	X	X	X
BGS-16	Domestic Well	Active	200	100	200	100	Regional	Upper & Lower	Boring Log	X	X	X	X
BGS-18	Domestic Well	Active	120	UNK	UNK	UNK	Regional	UNK	Well Owner	X	X	X	X
BGS-19	Agricultural Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A		X	X	X
BGS-22	Domestic Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A	X	X	X	X
BGS-23	Domestic Well	Active	188	82	187	105	Regional	Upper & Lower	Boring Log	X	X	X	X
BGS-24	Agricultural Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A	X	X	X	
BGS-25	Domestic Well	Active	UNK	80	400	320	Floodplain	Upper & Lower	Well Owner	X	X	X	X
BGS-27	Domestic Well	Active	UNK	UNK	UNK	UNK	Floodplain	UNK	N/A	X	X	X	X
BGS-28	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-29	Domestic Well	Active	105	45	105	60	Regional	Upper & Lower	Boring Log			X	X
BGS-30	Domestic Well	Active	160	99	155	56	Regional	Upper & Lower	Boring Log			X	
BGS-31	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-32	Domestic Well	Active	136	73	136	63	Regional	Upper & Lower	Boring Log			X	X
BGS-33	Domestic Well	Active	114	55	114	59	Regional	Upper & Lower	Boring Log			X	X
BGS-34	Domestic Well	Active	147	42	147	105	Regional	Upper & Lower	Boring Log			X	X
BGS-35	Domestic Well	Active	160	UNK	UNK	UNK	Regional	UNK	Well Owner			X	X
BGS-36	Domestic Well	Active	165	85	165	80	Regional	Upper & Lower	Boring Log			X	X
BGS-37	Domestic Well	Active	160	55	160	105	Regional	Upper & Lower	Boring Log			X	X
BGS-38	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-39	Domestic Well	Active	152	72	152	80	Regional	Upper & Lower	Boring Log			X	X
BGS-40	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-41	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-42	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-43	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-44	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-45	Domestic Well	Active	205	UNK	UNK	UNK	Regional	UNK	Well Owner			X	
BGS-46	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-47	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-48	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	
BGS-49	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A			X	X
BGS-50	Domestic Well	Active	UNK	UNK	UNK	UNK	Regional	UNK	N/A				X
BGS-51	Domestic Well	Active	200	160	200	40	Regional	Upper & Lower	Boring Log				X

Notes:

X = Well was sampled during the quarter shown

UNK = Well detail not known

N/A = No well information available

Quarter 1 = February 2006, Quarter 2 = April 2006, Quarter 3 = July-September 2006, and Quarter 4 = October-November 2006.

3.2 Sampling Procedures

All background study sampling was performed in accordance with the Activity-specific Safety and Health Plan (CH2M HILL, 2004b). Sampling was performed via three methods during the four sampling events. The majority of the samples were taken from spigots at active domestic or agricultural well heads. In addition to these standard samples, two wells were sampled at multiple discrete depths via two methods.

Prior to the collection of each groundwater sample, the static water level and total depth of each well was gauged (when access was available), the well was purged, and field parameters (pH, specific conductance, dissolved oxygen, and temperature) were recorded. Samples were collected after three consecutive field parameter readings were within the stabilization criteria of +/- 0.1 pH units, +/- 5 percent specific conductance, and +/- 0.5 milligram per liter (mg/L) dissolved oxygen. Samples were collected and preserved as per the laboratory requirements, labeled, and kept on ice until analysis was performed.

Figure 1-2 shows the location of the wells sampled during the background study. Appendixes C and D contain the sampling forms, laboratory analytical data, and chain-of-custody documentation.

During the first and second quarters of the study, samples were analyzed for the parameters outlined in the work plan, which included Cr(T) and Cr(VI), chromium isotopes, general chemistry parameters, field parameters, and dissolved metals. Prior to the initial sampling event, the Water Board verbally approved the removal of five parameters from the Work Plan that were considered to be redundant or not needed for geochemical evaluations. The removed parameters were: ferrous iron, total suspended solids, dissolved organic carbon, fluoride, and dissolved silica. After the second sampling event, data review indicated that several analytes had never been detected in any background study wells, and therefore were not necessary to classify the groundwater in the study area. This final list of analytes was used during the third and fourth sampling events. Table 3-2 contains the analyte list by quarter.

The initial list of potential discrete-depth background study wells presented in the work plan included 41 wells. The work plan proposed collecting two discrete-depth samples from five of these long-screened wells. The goal of the discrete sampling was to evaluate whether chromium concentration varied at specific depth intervals within the aquifer. One of these wells was sampled during the second sampling event. A second well, not located in the Target Background Area, was also sampled to test the discrete-depth sampling protocol. No other wells were found to be accessible for discrete-depth sampling.

TABLE 3-2
 Analyte List for All Background Study Sampling Events
Hinkley Groundwater Background Study Report
Hinkley Compressor Station, Hinkley, CA

Analytical Method	Analyte	Units	Quarters 1 and 2	Quarters 3 and 4
Chromium Forms				
7199	Hexavalent chromium	µg/L	yes	yes
6020A	Chromium, dissolved	µg/L	yes	yes
Metals				
6020A	Antimony, dissolved	mg/L	yes	no
6020A	Arsenic, dissolved	mg/L	yes	yes
6020A	Barium, dissolved	mg/L	yes	no
6020A	Beryllium, dissolved	mg/L	yes	no
6020A	Cadmium, dissolved	mg/L	yes	no
6020A	Calcium, dissolved	mg/L	yes	yes
6020A	Cobalt, dissolved	mg/L	yes	no
6020A	Copper, dissolved	mg/L	yes	no
6020A	Iron, dissolved	mg/L	yes	yes
6020A	Lead, dissolved	mg/L	yes	no
6020A	Magnesium, dissolved	mg/L	yes	yes
6020A	Manganese, dissolved	mg/L	yes	yes
6020A	Molybdenum, dissolved	mg/L	yes	no
6020A	Nickel, dissolved	mg/L	yes	no
6020A	Potassium, dissolved	mg/L	yes	yes
6020A	Selenium, dissolved	mg/L	yes	no
6020A	Sodium, dissolved	mg/L	yes	yes
6020A	Thallium, dissolved	mg/L	yes	no
6020A	Zinc, dissolved	mg/L	yes	no
7470A	Mercury, dissolved	µg/L	yes	no
General Chemistry				
160.1	Total dissolved solids	mg/L	yes	yes
300.0	Bromide	mg/L	yes	no
300.0	Chloride	mg/L	yes	yes
300.0	Nitrate as Nitrogen	mg/L	yes	yes
300.0	Sulfate	mg/L	yes	yes
310.1	Alkalinity, as carbonate	mg/L	yes	no*
310.1	Alkalinity, bicarb. as CaCO ₃	mg/L	yes	yes
310.1	Alkalinity, total as CaCO ₃	mg/L	yes	yes
350.2	Ammonia as nitrogen	mg/L	yes	no

Notes:

* Alkalinity, as carbonate, was discontinued midway through the Quarter 3 sampling (not needed).

Quarter 1 = February 2006, Quarter 2 = April 2006, Quarter 3 = July-September 2006, and Quarter 4 = October-November 2006.

3.3 Chromium Speciation and Isotope Analysis

The work plan proposed sampling 10 wells for chromium isotope analysis during the second sampling event. One of the proposed wells (35-12) was abandoned after the publication of the work plan and was unavailable for sampling. A well with comparable historic chromium values (MW-08) was substituted during the second sampling event. After the first set of chromium isotope analyses, the USGS requested additional samples to refine the calibration curve for the isotope data set. Four additional wells were sampled during the third sampling event. During the fourth sampling event, one well (MW-36) was added, and one of the second quarter wells (MW-18) was re-sampled.

Fifteen wells (16 samples, since one well was sampled twice) were sampled for chromium isotopes; however, the USGS was not able to provide results for two of the sampled wells, so reported results are for 13 wells. Appendix E provides the methodology for chromium isotope analysis.

3.4 Data Quality Review

As per the Quality Assurance Project Plan (CH2M HILL, 2004c), the laboratory analytical data generated during the four sampling events were independently reviewed by project chemists to assess data quality and identify any deviations from analytical requirements. Analytical results flagged “R” (data rejected based on an evaluation of quality control and data validation criteria) were not used in statistical analysis. Results flagged “J” (concentration estimated based on quality control and data validation criteria) were included. Appendix F presents a summary of all data that required validation flags.

Completeness objectives were met for all method and analyte combinations. No significant analytical deficiencies were identified. With minor exceptions, the analyses and data quality meet the project Quality Assurance Project Plan and laboratory method quality control acceptance criteria.

Analytic Accuracy: The data quality review includes an evaluation of the relationship between the dissolved Cr(T) (sum of all species) and Cr(VI) for each individual location. When a result for Cr(VI) is greater than the dissolved Cr(T) result, special attention is paid to those results. Although theoretically impossible, the Cr(VI) results can be greater due to the inherent inaccuracy of the analytical methods. The accuracy is the degree of agreement between a measured value and the “true” value. The SW6010B/6020A Cr(T) method has a criterion of +/- 25 percent from the true value based on the recovery of a known amount of “spiked” chromium. The SW7199 method for analyzing Cr(VI) has a criterion of +/- 15 percent from the true value, based on the recovery of a known amount of “spiked” Cr(VI). If each method is in error by the maximum percentage in the opposite direction (i.e., Cr[T] is 25 percent less than the “true” value and Cr[VI] is 15 percent greater than the “true” value), the Cr(VI) result can have a relative percent difference (RPD) of 40 percent above the Cr(T) result.

Interferences: Potential analytical interferences from cross contamination, a reducing environment, or presence of chloride or sulfate in the samples were evaluated during data

validation. None of these interferences was noted for the Cr(VI) results in the background study.

The only noted potential interference was a slightly low Cr(VI) recovery in the matrix spike sample from BGS-48 during the third sampling event. However, the low recovery (83 percent vs. 85 to 115 percent expected) does not necessarily indicate matrix interference. The 19 other matrix spike samples analyzed during this study did not indicate low recovery.

Holding-Time: Four Cr(VI) (SW7199) samples were analyzed outside the recommended holding-time. Holding time exceedances result in the possible loss of target analytes, due to degradation or chemical reactions that usually cause a negative bias to sample results. The detected results were flagged “J” as an estimated concentration.

The results for two anion (E300.0) samples indicated that the samples may have been switched by the lab prior to analysis. The samples were reanalyzed (outside the recommended holding time) for the respective analytes (nitrate, chloride, and sulfate [E300.0]) to confirm the error. The reanalyzed chloride and sulfate results were flagged “J” as estimated concentrations.

Two non-detect nitrate results were not usable due to gross exceedance of the holding time criteria and were flagged “R.” All other holding times were met.

Field Duplicates: Field duplicates were collected at the minimum rate of 1 per 10 normal samples per the work plan. The duplicates were analyzed to determine if field collection activities or sample matrix influenced the precision of the analytical measurements obtained at the sample site. All field duplicate acceptance criteria were met with the following exceptions: one Cr(VI) (SW7199) pair, one dissolved manganese pair, one dissolved zinc pair, and one total dissolved solids (TDS) pair had RPDs above the upper control limit. The results were qualified as estimated and were flagged “J”.

Equipment Blanks: Equipment blanks were collected at the rate of one per day whenever temporary pumps were used for sampling. Equipment blanks were used to assess the effectiveness of sampling equipment decontamination procedures. All equipment blank acceptance criteria were met.

Method Blanks: Method blanks were used to monitor each preparation or analytical batch for contamination throughout the entire analytical process, from sources such as glassware, reagents, and instrumentation. Method blanks were analyzed at the required frequency, and all quality control (QC) criteria were met.

Calibration: Initial calibration and periodic verification are essential to generating defensible analytical data. Periodic calibration verification ensures that the instrument has not been adversely affected by the sample matrix or other instrument failures that would increase or decrease the sensitivity or accuracy of the method. Initial and periodic calibrations were performed as required by the methods. Nineteen Cr(VI) (SW7199) sample results were associated with continuing calibration verification standards that had recoveries less than the lower control limit (LCL). The associated detected and non-detected results were qualified as estimated and were flagged “J” and “UJ.” Eleven Cr(VI) (SW7199) sample results and 15 magnesium (SW6010B) sample results were associated with continuing

calibration verification standards that had recoveries greater than the upper control limit. The associated detected results were qualified as estimated and were flagged "J."

Laboratory Control Samples: A laboratory control sample (LCS) measures laboratory accuracy. A high LCS recovery indicates the target analyte in associated samples is likely biased high. Results associated with LCS recovery criteria exceedances are considered to be estimated. Laboratory control samples were analyzed at the required frequency, and were recovered within QC limits, with the following exceptions: five dissolved zinc (SW6020A) results were flagged "J" as estimated concentrations, because the associated LCS recoveries were greater than the upper confidence limit (UCL).

Matrix Spike Samples: Matrix spike recoveries are used to evaluate the effect of the sample matrix on the recovery of target analytes. Matrix spike recoveries outside the QC limits may indicate that the sample's matrix is affecting the method's ability to accurately quantify the target analyte in the associated sample or sample batch. Therefore, when the matrix spike does not meet criteria, results are usually considered to be estimated.

Matrix spike acceptance criteria were met, with the following exceptions: matrix spike recoveries were less than the LCL in BGS-51_111406 for Cr(VI) (SW7199), calcium (SW6010B), and sodium (SW6010B). The associated detected results were qualified as estimated, and flagged "J." Additionally, the matrix spike recovery was less than the LCL in sample Velazquez-1_092806 for Cr(VI) (SW7199). The associated detected result was qualified as estimated, and flagged "J."

Laboratory Duplicates: Laboratory duplicate acceptance criteria were met for all methods.

Quantitation and Sensitivity: All method and analyte combinations met the project reporting limit, quantitation, and sensitivity objectives.

Miscellaneous: The TDS (E160.1) result for sample BGS-22_102406 was identified as erroneous during data validation. The reported dried weight was greater than the wet weight. The result was not usable and was flagged "R."

4.0 Analytical Results

This section presents the final validated analytical results for the four sampling events. These include Cr(T) and Cr(VI), chromium isotopes, and general chemistry/trace metal results.

4.1 Total and Hexavalent Chromium

Background study Cr(T) and Cr(VI) sample results are shown on Figure 4-1. Field duplicate results are not shown on this figure; however, all results are listed in Table 4-1.

Forty-three of the 48 wells sampled during the study exhibited Cr(T) or Cr(VI) detections during at least one of the sampling events. The maximum detected Cr(T) value was 3.15 µg/L at BGS-32 during the third sampling event. The maximum detected Cr(VI) value was 2.69 µg/L at BGS-47 during the fourth sampling event.

Five of the wells (06E-01, BGS-06, BGS-09, BGS-15, and BGS-24) did not contain Cr(T) or Cr(VI) concentrations above the 1.0 and 0.2 µg/L reporting limits, respectively, during any of the sampling events.

4.2 Chromium Isotopes

Chromium has four stable isotopes: ^{50}Cr , ^{52}Cr , ^{53}Cr , and ^{54}Cr . In an aqueous environment, the lighter isotopes are preferentially reduced first, resulting in an overall chromium composition that becomes progressively enriched with heavier isotopes (Ellis et al., 2002). The measurement of this isotope reduction is annotated as $\delta^{53}\text{Cr}$, which is the per mil difference in measured $^{53}\text{Cr}/^{52}\text{Cr}$ relative to that of NIST 979 (an accepted chromium isotope standard).

Chromium stable isotope compositions for the background study were measured at the USGS in Menlo Park, California, which is the only laboratory in the world that currently performs these analyses. The goal of this analysis was to assess the spatial distribution of chromium-stable isotope compositions in groundwater and to investigate whether the results might indicate a site-specific reduction pattern of Cr(VI) along flow paths within the mapped groundwater plume and/or might be used to differentiate anthropogenic Cr(VI) from non-anthropogenic Cr(VI). More details about USGS theory and application for chromium isotope analysis are described in Appendix E, which contains a description of the USGS chromium isotope analysis methodology.

During the second, third, and fourth sampling events, 15 wells in or adjacent to the inferred groundwater plume, including one well (BGS-04) used in the background study, were sampled for analysis of chromium speciation and isotopic composition. These data are provided in Table 4-2 and are shown on Figure 4-2. The USGS was unable to obtain $\delta^{53}\text{Cr}$ results for two low-chromium samples (MW-35 and 01-06).

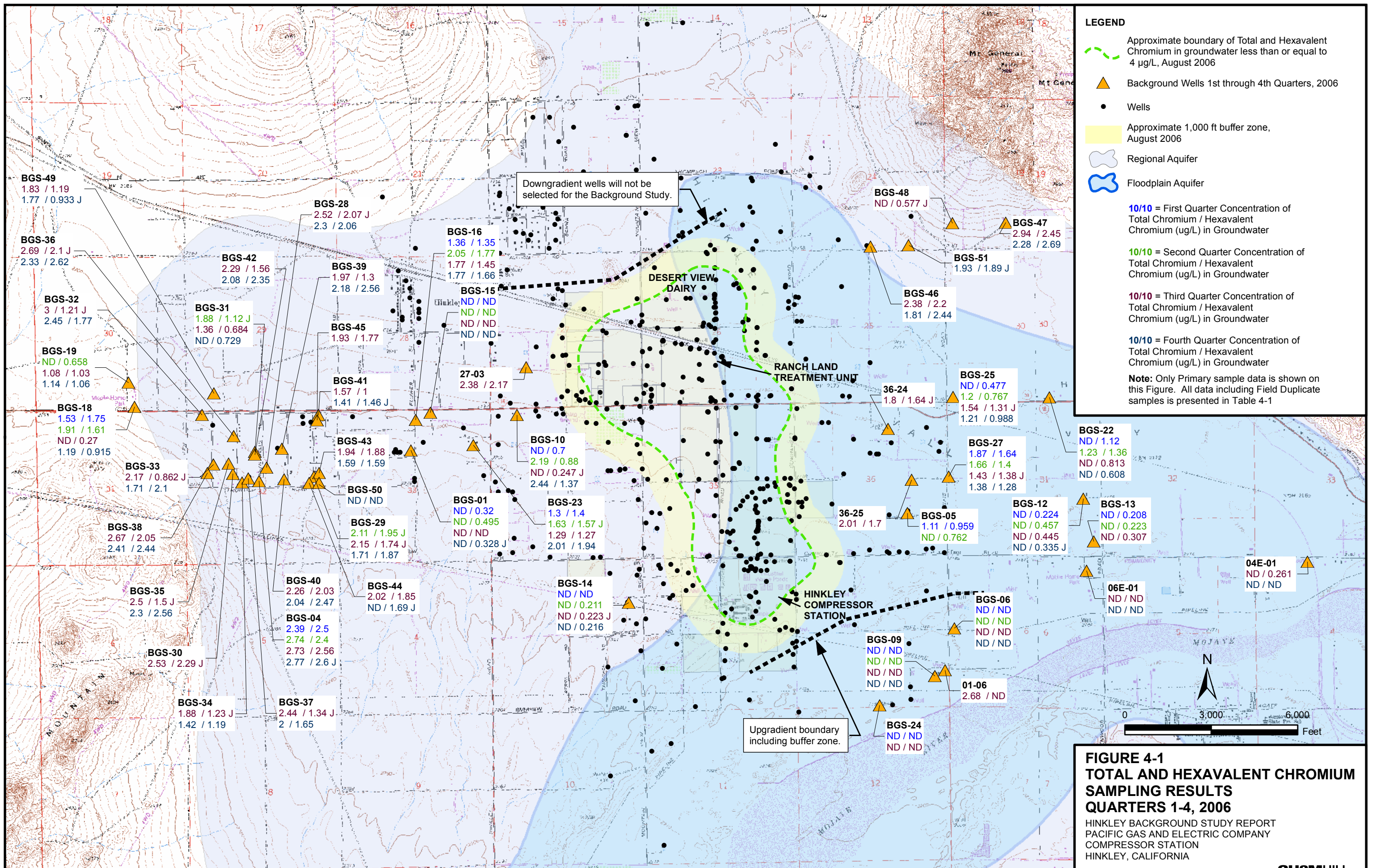


TABLE 4-1

Summary of Background Study Total and Hexavalent Chromium Sampling Results

Hinkley Valley Groundwater Background Study Report

Hinkley Compressor Station, Hinkley, CA

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. bgs)	Depth to Bott Perf. Interval (ft. bgs)	Discrete Sample Depth (ft bgs)	Total Chromium, diss. (6020A) (µg/L)	Hexavalent Chromium (7199) (µg/L)	Aquifer Designation
01-06	3	07/27/2006		55	78		2.68	ND <0.2 UJ	Upper Aquifer
04E-01	3	07/25/2006					ND <1	0.261	Unknown
	4	10/25/2006					ND <1	ND <0.2	
06E-01	3	07/24/2006		80	300		ND <1	ND <0.2	Upper & Lower Aquifer
	4	10/25/2006				ND <1	ND <0.2		
		10/25/2006	(dup)			ND <1	ND <0.2		
27-03	3	07/27/2006				2.38	2.17	Unknown	
36-24	3	07/27/2006				1.8	1.64 J	Unknown	
36-25	3	07/27/2006				2.01	1.7	Unknown	
BGS-01	1	01/31/2006		90	150		ND <1	0.32	Upper Aquifer
	2	04/25/2006				ND <1	0.495		
	3	07/25/2006				ND <1	ND <0.2		
	4	10/23/2006				ND <1	0.328 J		
BGS-04	1	02/01/2006		83	153		2.39	2.5	Upper Aquifer
	2	04/26/2006				2.74	2.4		
		04/26/2006	(dup)			2.87	2.41		
	3	07/25/2006				2.73	2.56		
07/25/2006		(dup)	2.65	2.53					
BGS-05	1	01/31/2006				1.11	0.959	Unknown	
	2	04/25/2006				ND <1	0.762		
BGS-06	1	01/31/2006		100	200		ND <1	ND <0.2	Upper & Lower Aquifer
	2	04/26/2006				ND <1	ND <0.2		
	3	07/24/2006				ND <1	ND <0.2		
	4	10/23/2006				ND <1	ND <0.2		
10/23/2006		(dup)	ND <1	ND <0.2					
BGS-09	1	01/30/2006				ND <1	ND <0.2	Unknown	
	2	04/24/2006		ND <1	ND <0.2				
	3	07/24/2006		ND <1	ND <0.2				
		07/24/2006	(dup)	ND <1	ND <0.2				
4	10/24/2006		ND <1	ND <0.2					
BGS-10	1	01/31/2006				ND <1	0.7	Unknown	
	2	04/26/2006				2.19	0.88		
	3	07/26/2006				ND <1	0.247 J		
	4	10/24/2006				2.44	1.37		
BGS-12	1	01/30/2006		86	246		ND <1	0.224	Upper & Lower Aquifer
	2	04/24/2006				ND <1	0.457		
	3	07/24/2006				ND <1	0.445		
	4	10/23/2006				ND <1	0.335 J		
BGS-13	1	01/31/2006				ND <1	0.208	Unknown	
	2	04/27/2006				ND <1	0.223		
	3	07/25/2006				ND <1	0.307		

Summary of Background Study Total and Hexavalent Chromium Sampling Results
 Hinkley Valley Groundwater Background Study Report
 Hinkley Compressor Station, Hinkley, CA

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. bgs)	Depth to Bott Perf. Interval (ft. bgs)	Discrete Sample Depth (ft bgs)	Total Chromium, diss. (6020A) (µg/L)	Hexavalent Chromium (7199) (µg/L)	Aquifer Designation
BGS-14	1	01/31/2006		80	195		ND <1	ND <0.2	Upper & Lower Aquifer
	2	04/26/2006				ND <1	0.211		
	3	07/26/2006				ND <1	0.223 J		
	4	10/23/2006				ND <1	0.216		
BGS-15	1	01/31/2006	(dup)	90	120		ND <1	ND <0.2	Upper Aquifer
		01/31/2006				ND <1	ND <0.2		
	2	04/26/2006				ND <1	ND <0.2		
	3	07/25/2006				ND <1	ND <0.2		
	4	10/23/2006	ND <1	ND <0.2					
BGS-16	1	01/31/2006		100	200		1.36	1.35	Upper & Lower Aquifer
	2	04/24/2006				2.05	1.77		
	3	07/25/2006				1.77	1.45		
	4	10/23/2006				1.77	1.66		
BGS-18	1	02/01/2006					1.53	1.75	Unknown
	2	04/25/2006					1.91	1.61	
	3	07/25/2006					ND <1	0.27	
	4	10/24/2006					1.19	0.915	
BGS-19	2	04/25/2006					ND <1	0.658	Unknown
	3	07/25/2006					1.08	1.03	
	4	10/24/2006					1.14	1.06	
		10/24/2006	(dup)				1.11	1.06	
BGS-22	1	01/30/2006	(dup)				ND <1	1.12	Unknown
		01/30/2006		ND <1	1.08				
	2	04/25/2006		1.23	1.36				
	3	07/24/2006		ND <1	0.813				
	4	10/24/2006	ND <1	0.608					
BGS-23	1	01/31/2006		82	187		1.3	1.4	Upper & Lower Aquifer
	2	04/24/2006				1.63	1.57 J		
		04/24/2006	(dup)			1.48	1.48 J		
	3	07/25/2006				1.29	1.27		
		07/25/2006	(dup)	1.21	1.22				
	4	10/24/2006		2.01	1.94				
BGS-24	1	02/02/2006					ND <1	ND <0.2	Unknown
	2	04/26/2006				60-60	ND <1	ND <0.2	
	2	04/26/2006				100-100	ND <1	ND <0.2	
	2	04/26/2006				140-140	ND <1	ND <0.2	
	3	07/27/2006					ND <1	ND <0.2	
BGS-25	1	01/30/2006		80	400		ND <1	0.477	Upper & Lower Aquifer
	2	04/26/2006				1.2	0.767		
	3	07/26/2006				1.54	1.31 J		
	4	10/23/2006				1.21	0.988		
BGS-27	1	02/02/2006					1.87	1.64	Unknown
	2	04/25/2006					1.66	1.4	
	3	07/26/2006					1.43	1.38 J	
	4	10/24/2006					1.38	1.28	

Summary of Background Study Total and Hexavalent Chromium Sampling Results
 Hinkley Valley Groundwater Background Study Report
 Hinkley Compressor Station, Hinkley, CA

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. bgs)	Depth to Bott Perf. Interval (ft. bgs)	Discrete Sample Depth (ft bgs)	Total Chromium, diss. (6020A) (µg/L)	Hexavalent Chromium (7199) (µg/L)	Aquifer Designation
BGS-28	3	07/26/2006					2.52	2.07 J	Unknown
	4	10/25/2006					2.3	2.06	
BGS-29	3	07/26/2006		45	105		2.11	1.95 J	Upper & Lower Aquifer
	3	09/26/2006					2.15	1.74 J	
	4	11/13/2006					1.71	1.87	
BGS-30	3	07/26/2006	(dup)	99	155		2.53	2.29 J	Upper & Lower Aquifer
		07/26/2006					2.48	2.31 J	
BGS-31	3	07/26/2006					1.88	1.12 J	Unknown
	3	09/27/2006					1.36	0.684	
	4	11/13/2006					ND <1	0.729	
BGS-32	3	09/26/2006	(dup)	73	136		3	1.21 J	Upper & Lower Aquifer
		09/26/2006					3.15	1.07 J	
		11/15/2006					2.45	1.77	
BGS-33	3	09/26/2006		55	114		2.17	0.862 J	Upper & Lower Aquifer
	4	11/15/2006					1.71	2.1	
BGS-34	3	09/26/2006		42	147		1.88	1.23 J	Upper & Lower Aquifer
	4	11/13/2006					1.42	1.19	
BGS-35	3	09/26/2006					2.5	1.5 J	Unknown
	4	11/15/2006					2.3	2.56	
BGS-36	3	09/26/2006		85	165		2.69	2.1 J	Upper & Lower Aquifer
	4	11/13/2006					2.33	2.62	
BGS-37	3	09/26/2006		55	160		2.44	1.34 J	Upper & Lower Aquifer
	4	11/13/2006					2	1.65	
BGS-38	3	09/27/2006					2.67	2.05	Unknown
	4	11/13/2006					2.41	2.44	
BGS-39	3	09/27/2006		72	152		1.97	1.3	Upper & Lower Aquifer
	4	11/15/2006					2.18	2.56	
BGS-40	3	09/27/2006					2.26	2.03	Unknown
	4	11/15/2006					2.04	2.47	
BGS-41	3	09/27/2006	(dup)				1.57	1	Unknown
		09/27/2006					1.54	0.957	
	4	11/14/2006	(dup)	1.41	1.46 J				
		11/14/2006		1.38	1.42 J				
BGS-42	3	09/27/2006					2.29	1.56	Unknown
	4	11/15/2006					2.08	2.35	
		11/15/2006	(dup)	2.06	2.14				
BGS-43	3	09/28/2006					1.94	1.88	Unknown
	4	11/14/2006					1.59	1.59	
BGS-44	3	09/28/2006					2.02	1.85	Unknown
	4	11/14/2006					ND <1	1.69 J	
BGS-45	3	09/28/2006					1.93	1.77	Unknown
BGS-46	3	09/28/2006					2.38	2.2	Unknown
	4	11/15/2006					1.81	2.44	
BGS-47	3	09/28/2006					2.94	2.45	Unknown
	4	11/15/2006					2.28	2.69	

Summary of Background Study Total and Hexavalent Chromium Sampling Results

Hinkley Valley Groundwater Background Study Report

Hinkley Compressor Station, Hinkley, CA

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. bgs)	Depth to Bott Perf. Interval (ft. bgs)	Discrete Sample Depth (ft bgs)	Total Chromium, diss. (6020A) (µg/L)	Hexavalent Chromium (7199) (µg/L)	Aquifer Designation
BGS-48	3	09/28/2006					ND <1	0.577 J	Unknown
BGS-49	3	09/28/2006	(dup)				1.83	1.19	Unknown
		09/28/2006					1.78	1.18	
	4	11/14/2006					1.77	0.933 J	
BGS-50	4	11/13/2006				ND <1	ND <0.2	Unknown	
BGS-51	4	11/14/2006		160	200		1.93	1.89 J	Upper & Lower Aquifer

Notes:

(dup) = Duplicate field sample

ND = Not detected at reporting limit shown

J = Concentration is estimated based on quality control and data validation criteria

Quarter 1 = February 2006, Quarter 2 = April 2006, Quarter 3 = July-September 2006, and Quarter 4 = October-November 2006.

TABLE 4-2
 Summary of Background Study Chromium Isotope Analysis
Hinkley Groundwater Background Study Report
Hinkley Compressor Station, Hinkley, CA

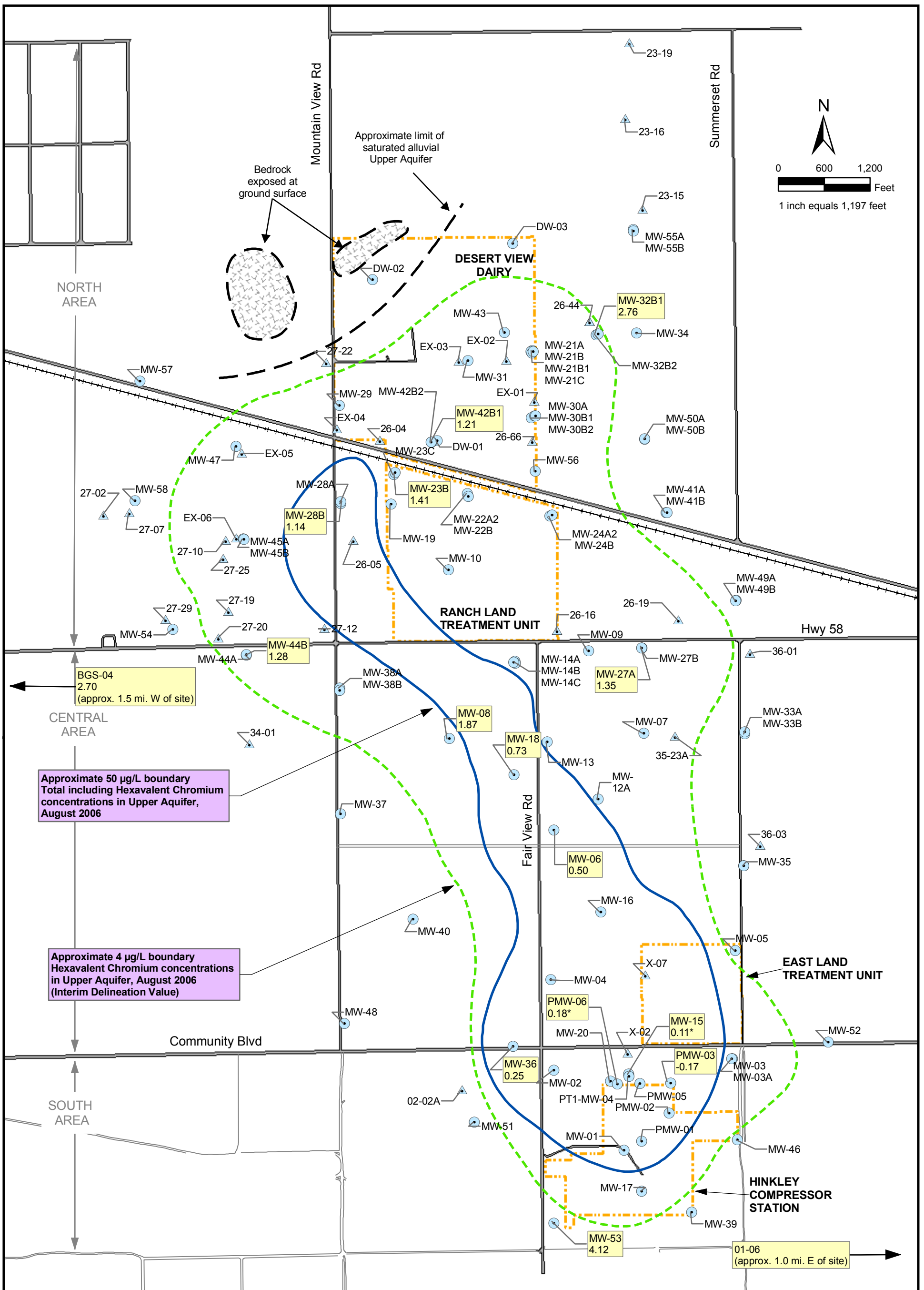
Sample Designation	Cr conc. ($\mu\text{g/L}$)*	Cr(VI) ($\mu\text{g/L}$)*	Cr(II) ($\mu\text{g/L}$)*	$\delta^{53}\text{Cr}$ (per mil, relative to NIST 979)
PMW-03	2775.0	2665.0	110.0	-0.17
MW-36	142	132.5	9.5	0.25
MW-06	106.4	101.6	4.8	0.50
MW-06 – Duplicate	105.6	101.0	4.6	0.70
MW-18	54.5	51.1	3.4	0.73
MW-18 – Duplicate	52.7	49.0	3.7	0.85
MW-18**	2.4	2.1	0.3	3.48
MW-28B	46.1	44.4	1.8	1.14
MW-42B1	33.7	32.2	1.6	1.21
MW-42B1 – Duplicate	33.6	32.8	0.8	1.27
MW-23B	29.7	28.9	0.7	1.41
MW-08	21.2	20.6	0.6	1.87
MW-27A	20.6	19.5	1.1	1.35
MW-44B	17.5	15.4	2.1	1.28
MW-35	6.7	6.4	0.3	N.A.
BGS-04	4.3	3.7	0.6	2.70
MW-32B1	3.6	3.3	0.3	2.76
01-06	1.4	1.3	0.1	N.A.
MW-53	1.2	0.8	0.4	4.12

Notes:

* All chromium concentrations were determined by the USGS using non-standard extraction procedures.

N.A. = USGS was not able to determine a $\delta^{53}\text{Cr}$ value for this well.

** This value rejected from this study, see Section 4-2 for details



LEGEND	
	Monitoring well
	Supply well (not used for contouring)
	4 ppb. plume
	50 ppb. plume
	PG&E Land
	Cr Isotope Study Wells Phase I
(A) =	Specific well in cluster sampled in CIS Phase I
0.9 =	$\delta^{53}\text{Cr}$ value, in ppt. rel. to standard
*Data is from Ball/Izbicki (2001)	

FIGURE 4-2 CHROMIUM ISOTOPE STUDY: PHASE I RESULTS

GROUNDWATER MONITORING & REMEDIATION PROJECT
 PACIFIC GAS & ELECTRIC CO.
 COMPRESSOR STATION
 HINKLEY, CALIFORNIA

CH2MHILL

Among the remaining 13 wells, $\delta^{53}\text{Cr}$ values ranged from -0.17‰ at PMW-03 (a well located near the compressor station) to 4.12‰ at MW-53 (a well located upgradient from the compressor station). During the sampling events, three field duplicate samples were also analyzed. No formal data quality reviews were run on these samples because the USGS analytical methodology is non-standard. However, an inspection of the sample results indicates that the duplicate results are generally comparable.

One well (MW-18) was originally sampled for $\delta^{53}\text{Cr}$ during the second sampling event. However, the sample results appeared to be incongruous with previous database Cr(T) and Cr(VI) values for MW-18 and were a clear outlier in the isotope progression along the plume. This well was re-sampled during the fourth sampling event, and a confirmation Cr(T) and Cr(VI) sample was sent to the analytic laboratory. The second set of sample results did align with historic chromium values for MW-18. Based on this data, the first MW-18 sample was disregarded in the chromium isotope study.

Chromium speciation and isotope analysis for 13 samples are shown in Table 4-2 and plotted on Figure 4-3 on a traditional $\delta^{53}\text{Cr}$ to Cr(VI) ratio ($\delta^{53}\text{Cr}$ -Cr) concentration diagram.

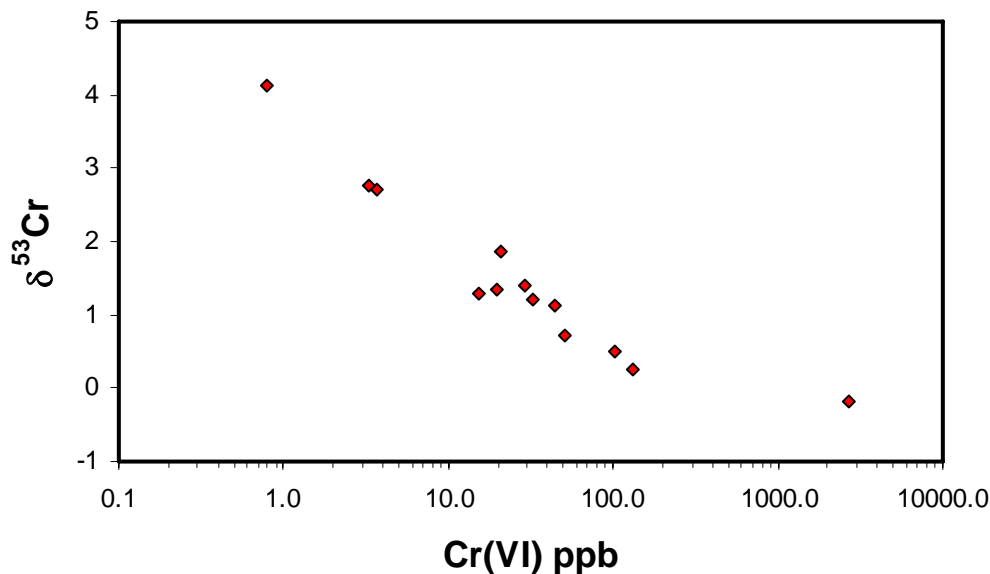


FIGURE 4-3
 $\delta^{53}\text{Cr}$ -Cr Concentration Diagram, Hinkley Background Study Isotope Samples

The striking feature of this data set is the overall linearity of the array. Specifically, there appear to be two groups of data points: three samples with $\delta^{53}\text{Cr} > 2\text{‰}$ and Cr(VI) less than $4\ \mu\text{g/L}$, and 10 samples with $\delta^{53}\text{Cr} < 2\text{‰}$ and Cr(VI) greater than $15\ \mu\text{g/L}$. It is unclear whether this grouping reflects a sampling bias or is a real feature of this groundwater system.

Figure 4-4 shows the Rayleigh fractionation line (labeled "Reduction"), which describes the predicted isotope sample distribution if Cr(VI) reduction to Cr(III) were the main reason for

the Cr(VI) reduction observed at the site (Ellis et al., 2002). The reduction line originates at well PMW-03, which is located at the PG&E Hinkley Compressor Station and is representative of the high chromium concentration at the source area.

The “Mixing” line in Figure 4-4 represents the predicted isotope sample distribution if groundwater dilution between the source area groundwater and native groundwater (in this case, represented by well MW-32B1, which is a well on the leading edge of the 4 µg/L plume boundary) was the main reason for Cr(VI) reduction at the site.

As can be seen from Figure 4-4, the distribution of chromium isotope data can not be explained by either a fractionation or simple mixing scenario.

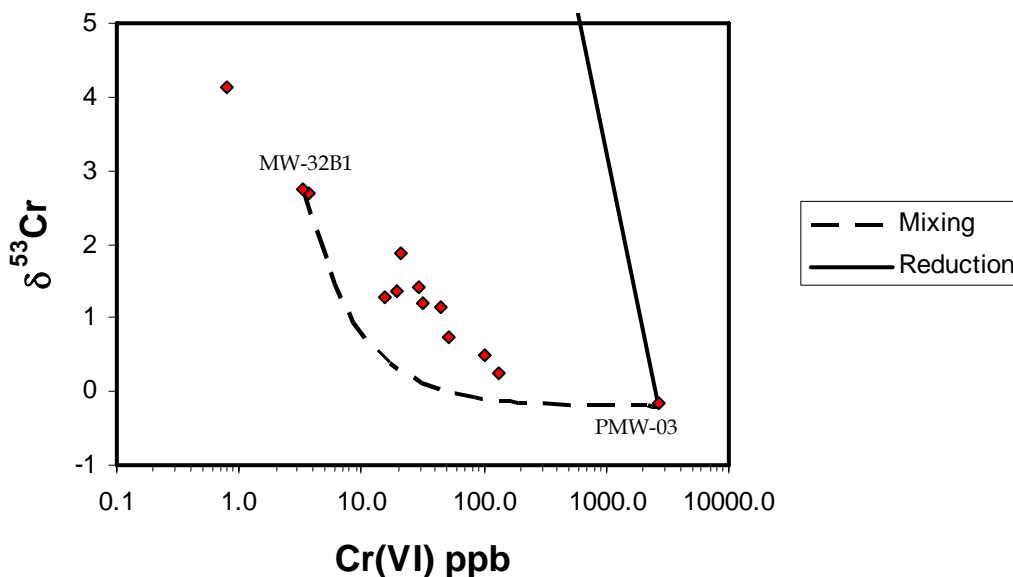


FIGURE 4-4
 $\delta^{53}\text{Cr}$ -Cr Concentration Diagram with Reduction and Mixing Line, Hinkley Background Study Isotope Samples

In summary, for the Hinkley site, chromium isotope ratios were not useful to delineate the specific degradation pattern within the plume or to differentiate between anthropogenic and non-anthropogenic Cr(VI) in groundwater.

4.3 General Chemistry and Trace Metals Results

Forty-eight wells used in the study were sampled for a suite of general chemistry and trace metal analytes. A summary table of results is presented in Appendix G. The purpose of this analysis was to further characterize the Hinkley groundwater and to identify wells that may be geochemically dissimilar from other background wells sampled. The geochemical evaluation is discussed in more detail in Section 5.1.

4.4 Discrete-depth Sampling

The chromium results of the discrete depth sampling are provided in Table 4-1. All Cr(T) and Cr(VI) samples were non-detect for these wells.

5.0 Data Evaluation

Analytical results from the 48 background study wells were evaluated to determine if data should be eliminated based on geochemistry or other data to suggest the wells is an “outlier.” The following section presents this analysis.

It should be noted that no anthropogenic sources of chromium were identified during site reconnaissance or sampling.

5.1 Hydrogeochemical Analysis

This evaluation considered groundwater geochemistry, well location relative to the mapped Floodplain and Regional Aquifers, well depth, and lithology (where well construction information was available) to determine each well’s suitability for inclusion into the final data set. The geochemical data evaluation included major ion and TDS results for wells located within the interpreted plume boundary where appropriate.

As presented below, no wells were eliminated from the background study based on hydrochemistry or lithologic analysis.

5.1.1 Total Dissolved Solids and Stiff Diagrams

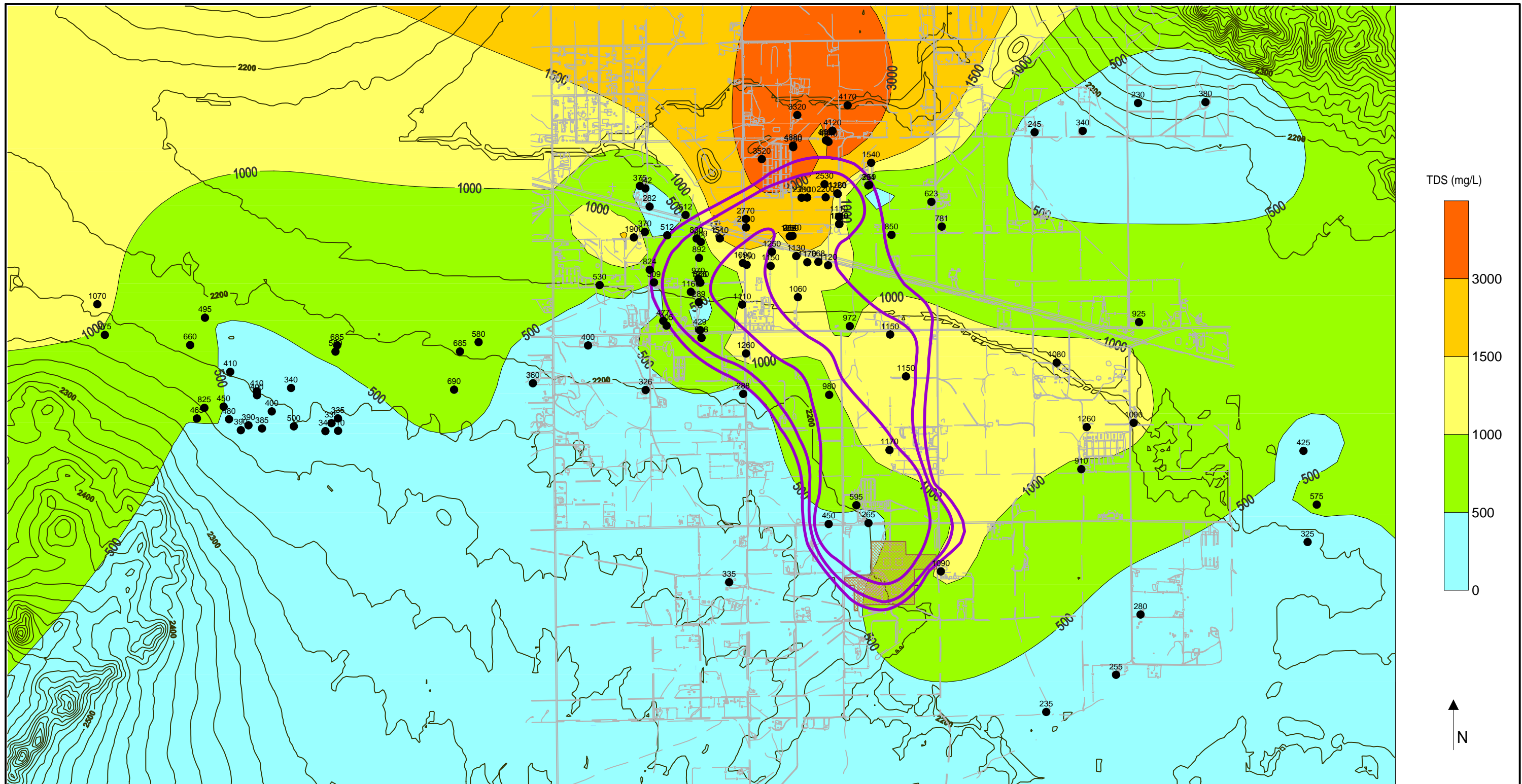
Figures 5-1 and 5-2 present TDS and major cation and anion data as Stiff diagrams across the site, respectively. The following observations may be made based on these two figures:

- Concentrations of TDS generally increase to the north with distance from the Mojave River. This is typical of a freshwater recharge system in which low-TDS river water migrates away from the recharge source, accumulating salts and dissolved solids as it passes through the aquifer. This regional trend is obscured somewhat by localized high-TDS areas in the central portion of the study area, which are associated with agricultural operations.
- Wells closest to the river exhibit higher calcium-to-sodium cation ratios than wells located elsewhere in the study area. The highly irrigated area in the center of the Hinkley Valley also exhibits high calcium-to-sodium ratio.
- Wells on either side of the Lockhart Fault indicate similar overall ion and TDS concentrations.






5.1.2 Trilinear Diagrams

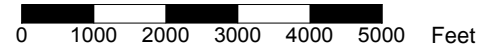
Several Trilinear (Piper) diagrams, shown on Figure 5-3, were prepared to examine geochemical patterns of both well groupings and individual background study wells. The following observations can be made in review of these diagrams:

- The pattern of background study samples indicates a very broad cluster of water compositions, with no dominant groundwater type.



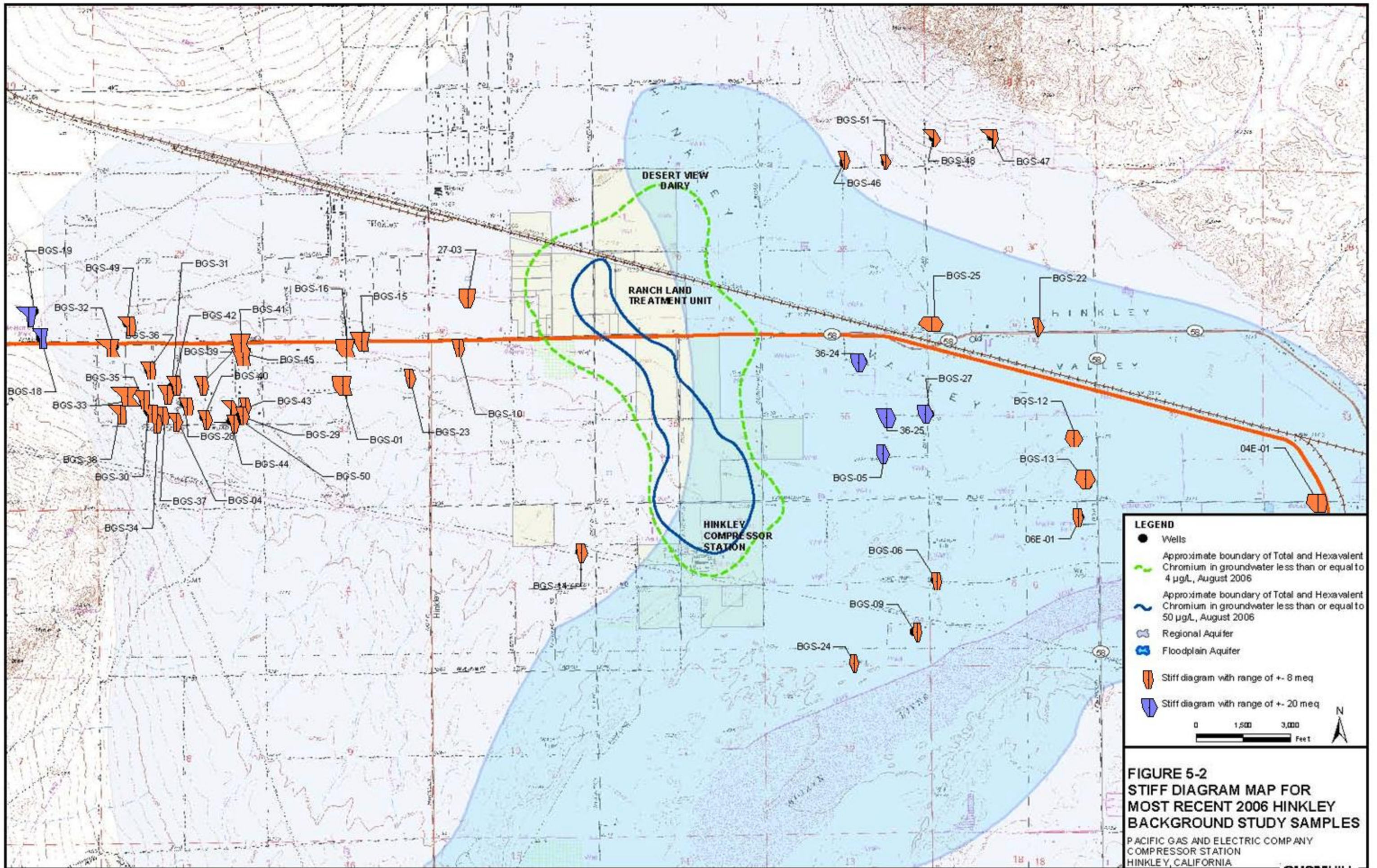
LEGEND

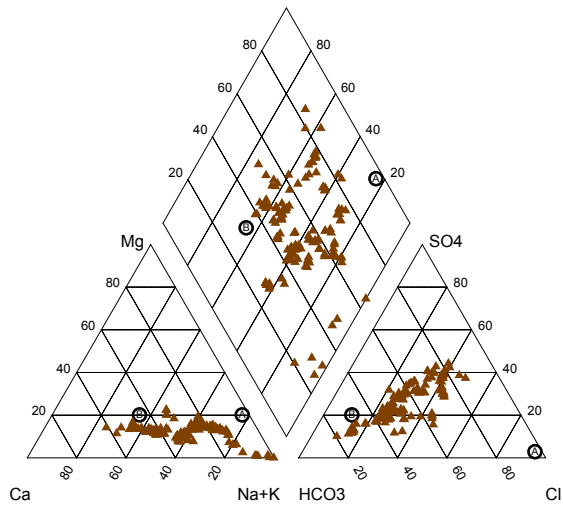
-  COMPRESSOR STATION
-  APPROXIMATE AUG 2006 CR(VI) PLUME: 4, 10, AND 50 ug/l GW CONCENTRATION CONTOURS
-  TOPOGRAPHY CONTOURS (20 FT INTERVAL)
-  MAJOR AND MINOR ROADS
-  WELL LOCATION AND TDS CONCENTRATION (mg/L)



**FIGURE 5-1
TOTAL DISSOLVED SOLIDS ISOCONCENTRATION
CONTOURS IN GROUNDWATER (MG/L)
MOST RECENT DATA FROM 2006**

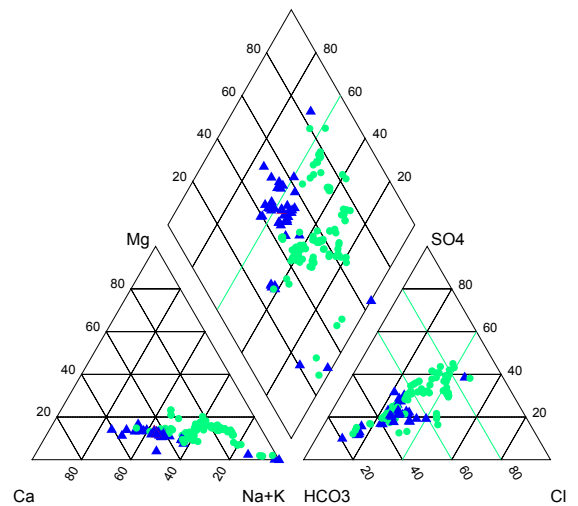
HINKLEY BACKGROUND STUDY REPORT
PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION, HINKLEY, CALIFORNIA





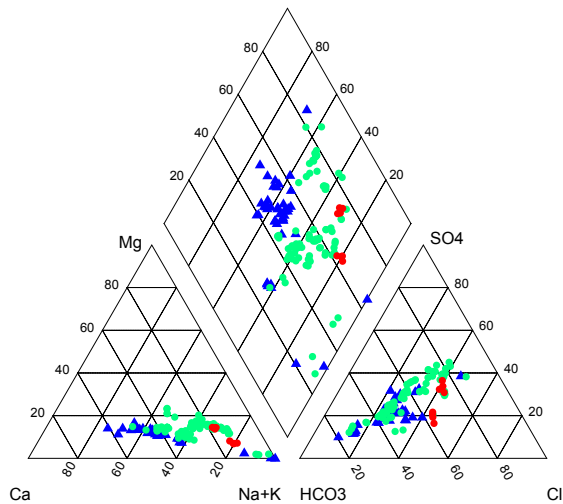
Legend

- ▲ Hinkley Background Study Samples and Available Agricultural Well Samples from the Hinkley Valley
- Ⓐ Typical Sea Water Sample for Reference
- Ⓑ Typical Potable Water Sample for Reference



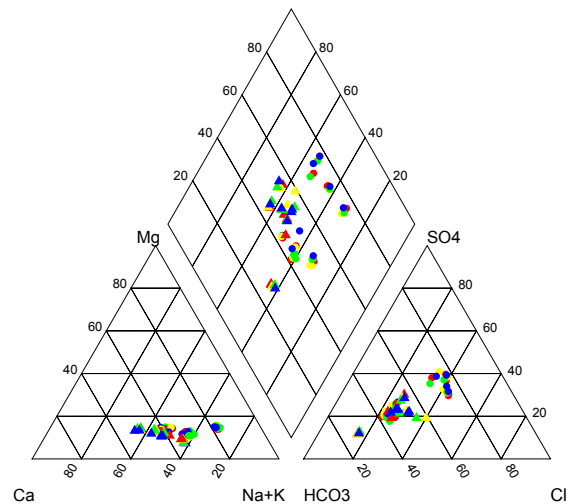
Legend

- ▲ Floodplain Aquifer Wells
- Regional Aquifer Wells



Legend

- ▲ Floodplain Aquifer Wells
- Regional Aquifer Wells
- BGS-18 and BGS-19 Samples



Legend

- ▲ Floodplain Aquifer Wells, Event 1
- ▲ Floodplain Aquifer Wells, Event 2
- ▲ Floodplain Aquifer Wells, Event 3
- ▲ Floodplain Aquifer Wells, Event 4
- Regional Aquifer Wells, Event 1
- Regional Aquifer Wells, Event 2
- Regional Aquifer Wells, Event 3
- Regional Aquifer Wells, Event 4

FIGURE 5-3
TRILINEAR DIAGRAMS SHOWING MAJOR CATION AND ANION CLASSIFICATION FOR HINKLEY BACKGROUND AND SELECTED ADDITIONAL SAMPLES

HINKLEY BACKGROUND STUDY REPORT
 PACIFIC GAS AND ELECTRIC COMPANY
 HINKLEY COMPRESSOR STATION, HINKLEY, CA

- The Floodplain and Regional Aquifers are not distinct but are part of a single population of water that contains a variety of geochemical signatures imparted by the natural groundwater flow path. At some locations, natural conditions are affected by land use and localized irrigation recharge.
- BGS-18 and BGS-19 are unremarkable in location, plotting within the large mass of other wells. There is no geochemical reason to exclude these wells from the background study.
- Seasonal variation among the 14 wells that were sampled during all four sampling events is minimal, as the major ions plot in very similar locations in the Trilinear diagrams during each quarter.

5.1.3 Available Background Study Well Boring Logs

Due to the overall lack of well construction information, no conclusions can be drawn about background chromium concentrations in the Upper Aquifer versus Lower Aquifer. Boring logs for 17 of the 48 study wells were obtained from the Department of Water Resources archives (Appendix H). All known well construction information for these wells is summarized in Table 3-1. The majority of the documented wells have screens that are between 55 and 115 feet long.

Hydraulically, all 17 wells for which boring log information was available are screened across either the Upper Aquifer or both the Upper and Lower Aquifers, including a few wells with notations of bedrock.

5.2 Temporal Evaluation of Background Concentrations

In accordance with the work plan, samples were collected during all four quarters of 2006. Fourteen wells were sampled during all four consecutive events, two wells were sampled during three events, 23 wells were sampled during two events, and nine wells were sampled during one event (Table 3-1).

To evaluate whether there are temporal variations in the data collected in the background study, the 14 wells that were sampled during all four events were evaluated for significant increasing or decreasing trends in the Cr(T) or Cr(VI) concentrations. This evaluation was performed using the Mann-Kendall test (Gilbert, 1987). There are no distributional assumptions in the Mann-Kendall test, which can be viewed as a non-parametric test for a zero slope in the linear regression of time-ordered data versus time.

The results of the Mann-Kendall test (Table 5-1) indicate that only one of the 14 wells (BGS-27) that were sampled during all four events indicate a potential trend in Cr(T) or Cr(VI) concentrations. In this case, the trend was significantly decreasing for both Cr(T) and Cr(VI). Statistically, in a random four-event population of samples using a significance level of 0.05, approximately 5 percent of the samples would be expected to be significantly trending in one direction or the other. In the study samples, 7.1 percent (one in 14) of the cases indicated a significant trend, which is very close to the level (0.05 or 5 percent) of insignificance for the test. Therefore, the results of the Mann-Kendall test indicate a lack of evidence for a temporal trend for those wells sampled during all four sampling events.

TABLE 5-1
Mann-Kendall Trend Evaluation
Hinkley Background Study Wells with Four Quarters of Data, 2006
Hinkley Groundwater Background Study Report
Hinkley Compressor Station, Hinkley, CA

Well	Percent Detects	Probability that the Observed Trend is Due to Random Variation	Decision
Cr(T)			
BGS-01	0	-	All Non-Detects
BGS-04	100	0.375	No Significant Change
BGS-06	0	-	All Non-Detects
BGS-09	0	-	All Non-Detects
BGS-10	50	0.271	No Significant Change
BGS-12	0	-	All Non-Detects
BGS-14	0	-	All Non-Detects
BGS-15	0	-	All Non-Detects
BGS-16	100	0.500	No Significant Change
BGS-18	75	0.367	No Significant Change
BGS-22	25	0.500	No Significant Change
BGS-23	100	0.375	No Significant Change
BGS-25	75	0.167	No Significant Change
BGS-27	100	0.045	Significantly Decreasing
Cr(VI)			
BGS-01	75	0.625	No Significant Change
BGS-04	100	0.167	No Significant Change
BGS-06	0	-	All Non-Detects
BGS-09	0	-	All Non-Detects
BGS-10	100	0.375	No Significant Change
BGS-12	100	0.625	No Significant Change
BGS-14	75	0.167	No Significant Change
BGS-15	0	-	All Non-Detects
BGS-16	100	0.375	No Significant Change
BGS-18	100	0.154	No Significant Change
BGS-22	100	0.154	No Significant Change
BGS-23	100	0.375	No Significant Change
BGS-25	100	0.167	No Significant Change
BGS-27	100	0.045	Significantly Decreasing

A site-wide ANOVA test could not be completed on the background data set because of the large influx of wells sampled during only the third and fourth sampling events.

5.3 Well Averages

The expansion of the background study well list after the second sampling event has the potential to introduce bias into the overall summary statistics due to the unbalanced nature of the data set (i.e., four quarters of data are not available for all wells). To restrict this bias, the average Cr(T) and Cr(VI) concentrations from each well were used, including either one, two, three, or four data points. This approach prevents bias by any particular well over another since each well is represented by a single result.

From this point forward, the average result for each well is used in the statistical analysis of the study data.

5.4 Evaluation of Mathematical Outliers

For both Cr(T) and Cr(VI), the well average data were evaluated for mathematical outliers. Per United States Environmental Protection Agency (USEPA) guidance (USEPA, 2000), Rosner's test was applied since there were 25 or more (48) results available. This test is based on an assumption of normality for those concentrations remaining after the statistical outliers are excluded. Thus, various transformations were considered to achieve the best adherence to normality (based on the Shapiro-Wilk test) for the remaining concentrations (Gilbert, 1987; USEPA, 2000). All data were transformed using one of three transformations, including the square root transformation, the cubic root transformation, and the natural logarithmic transformation. The logarithmic transformation is a standard transformation in environmental applications, while the square root and cubic root offer options appropriate when intermediate levels of skewness are present in the data.

The results of this evaluation indicated that no mathematical outliers were present. Even when the test was restricted to untransformed data (an approach that produces more outliers than when more skewed transformations are employed), there were no mathematical outliers.

These findings are supported by the probability plots shown in Figures 5-4 and 5-5 for Cr(T) and Cr(VI), respectively. Probability plots graph the actual concentrations versus the expected quantiles if the data were normal. In these plots, the quantiles used are the number of standard deviations from zero. These graphs serve the purpose of plotting each of the ascending concentrations, so discontinuities can be viewed with limited overlap. Detected concentrations are plotted as closed circles, while non-detects (one-half the reporting limit) are plotted as open circles.

No false values or clusters of values move up in concentration away from the others. Instead, the concentrations appear to represent a smooth curve. This result supports the conclusion that no mathematical outliers are present in the data set.

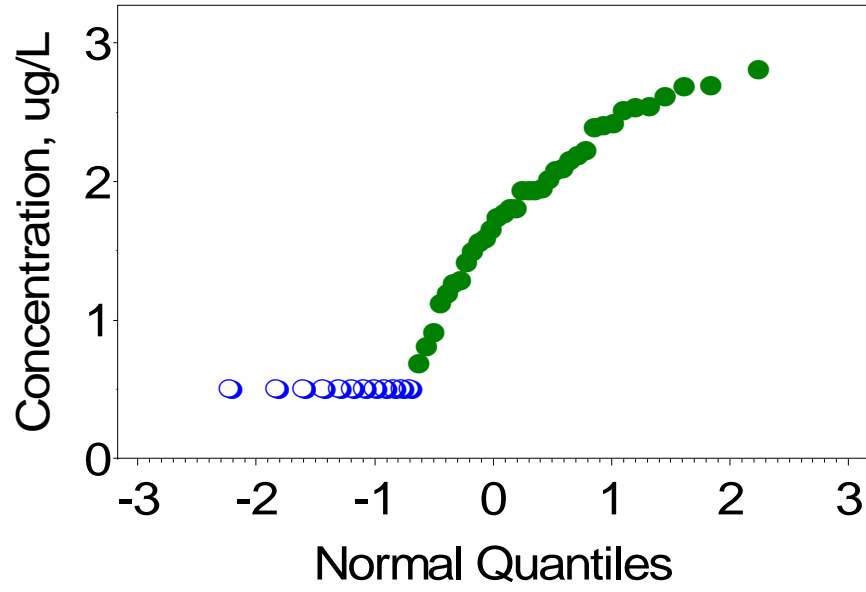


FIGURE 5-4
Probability Plots for Cr(T) Concentrations
Open blue circles represent one-half the reporting limit; closed green circles represent detected concentrations.

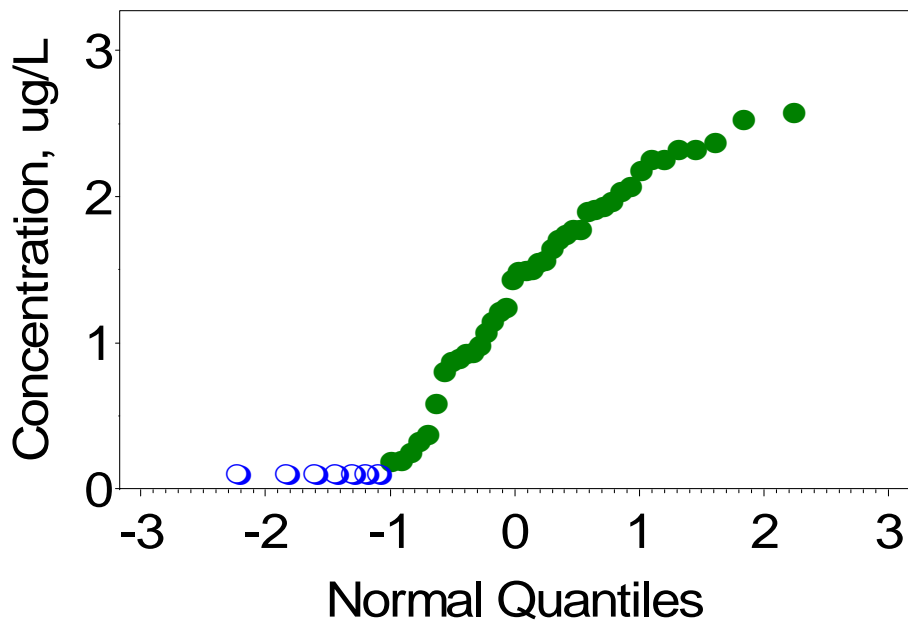


FIGURE 5-5
Probability Plots for Cr(VI) Concentrations
Open blue circles represent one-half the reporting limit; closed green circles represent detected concentrations.

5.5 Final Background Study Data Set

Using the conclusions drawn from the analyses presented in this section, the final background data set included well averages from all wells sampled in the Target Background Study Area.

This final data set comprises geographically distinct samples collected from geologically variable materials that would be expected to produce site-specific variations in groundwater chemistry. Therefore, the data set appears to be representative of the study area in the Hinkley Valley.

6.0 Background Concentrations

This section provides the methodology used to estimate background values for Cr(T) and Cr(VI) in groundwater in the study area and compares the calculated values with other chromium studies previously performed in the Mojave Desert. Additional information on statistical procedures used in this evaluation is provided in Appendix I.

6.1 Method for Calculating 95th Percent Upper Tolerance Limit

Per the work plan, the 95th percent/95th percent background UTL was calculated for Cr(T) and Cr(VI) – that is, an upper bound (with 95 percent confidence) of the background 95th percentile (CH2M HILL, 2004a).

Mean and standard deviation values were calculated using a maximum likelihood estimate (MLE) (USEPA, 2006). An MLE provides the most likely estimate of the true parameter (e.g., the mean) of a population from which sample data are available. For the Hinkley Groundwater Background Study, the Newton-Raphson method (USEPA, 2006) was used to calculate adjustments for the mean and standard deviation for Cr(T) and Cr(VI). This method depends on an assumption of normality (see Appendix I) and provides appropriate adjustments for non-detects without applying proxy values. The detected concentrations, along with the number of detects and non-detects, were used to provide an estimate of the mean and standard deviation. Statistical methods are discussed in Appendix I.

Normal 95th percent UTLs for Cr(T) and Cr(VI) were calculated using the following equation:

$$UTL = \bar{x} + (K \times s) \quad (1)$$

where:

\bar{x} is the sample mean.

K is the tolerance factor.

s is the sample standard deviation.

6.2 Background Value

Summary statistics for Cr(T) and Cr(VI) are provided in Table 6-1. The statistics include:

- Number of detects, number of samples, mean, median, standard deviation, minimum detect, maximum detect, and percent detects for all well averages.
- 95th percent UTLs for Cr(T) and Cr(VI), based on the data collected during this study.

TABLE 6-1
 Summary Statistics for Cr(T) and Cr(VI) Using Well Averages ($\mu\text{g/L}$)
Hinkley Groundwater Background Study Report
Hinkley Compressor Station, Hinkley, CA

Parameter	Median	Mean ^a	Standard Deviation ^a	Number of Detects	Number of Samples	Percent Detects	Minimum Detect	Maximum Detect	Normal 95/95 UTL ^b
Cr(T)	1.69	1.52	0.824	36	48	75	0.683	2.8	3.23
Cr(VI)	1.45	1.19	0.915	41	48	85	0.181	2.57	3.09

^a The mean and standard deviation were calculated using a maximum likelihood method (USEPA, 2006)

^b The Normal UTL is the recommended background threshold value as discussed in Appendix I.

The UTLs calculated in this study are $3.23 \mu\text{g/L}$ for Cr(T), and $3.09 \mu\text{g/L}$ for Cr(VI) (Table 6-1). These UTL values are considered valid values for wells in the Hinkley Valley.

As discussed in Section 3.4, the SW6010B/6020A method used for Cr(T) has an uncertainty of +/- 25 percent from the true value. The SW7199 method for analyzing Cr(VI) has an uncertainty of +/- 15 percent from the true value. In order to account for these analytic uncertainties, 25 and 15 percent have been added to the 95th percent UTL values for Cr(T) and Cr(VI), respectively, that were calculated above. These final threshold background values are $4.04 \mu\text{g/L}$ for Cr(T), and $3.55 \mu\text{g/L}$ for Cr(VI).

6.3 Comparison to Other Chromium Studies

This section is provided to compare the results of this study with previous studies of naturally-occurring chromium concentrations that have been performed in the Mojave Desert and adjacent areas. The studies that were considered include:

- California Department of Health Services (CDHS) sampling results, as of April 2004, for Cr(VI) in public supply wells in California (CDHS, 2004).
- Topock background study recommendations (CH2M HILL, 2007a).
- Evaluation of Cr(VI) in the southwestern portion of the Mojave Basin, which includes the Hinkley area (USGS, 2004).
- Other regional studies.

Statewide Drinking Water Monitoring Program for Cr(VI): The CDHS adopted a regulation adding Cr(VI) to the list of unregulated chemicals requiring monitoring, effective January 3, 2001 (CDHS, 2004). As a result of this regulation, public water systems across the state have been monitoring for Cr(VI) using the analytical Method 7199, with a detection limit of $0.2 \mu\text{g/L}$. Results of monitoring 6,400 drinking water sources (as of April 7, 2004) showed Cr(VI) detections at or above $5 \mu\text{g/L}$ in about one-third of the tested sources. Occurrence is mostly at low ($<10 \mu\text{g/L}$) levels, with 87 percent having peak concentrations at or below $10 \mu\text{g/L}$ (CDHS, 2004). Table 6-2 presents statistics for the most recent available data collected in April 2004.

TABLE 6-2
 Statistics for Cr(VI) Data Collected by CDHS in April 2004
Hinkley Groundwater Background Study Report
Hinkley Compressor Station, Hinkley, CA

Value	California	San Bernardino County
Maximum	524.0	85.0
Minimum	0.0	0.1
Median	3.5	3.5
Average	6.0	5.8

Units are $\mu\text{g/L}$.

Topock Background Evaluation: The groundwater background study for the PG&E Topock Compressor Station site employed a methodology similar to the Hinkley Background Study. The Topock study was completed to assess the range of naturally-occurring background concentrations of Cr(T) and Cr(VI) in groundwater, using data collected from 25 existing wells near the PG&E Topock gas compressor station over a 1-year period. The groundwater background concentrations were estimated using the 95th percent UTL. The 95th percent UTL was calculated for Cr(T) and Cr(VI), assuming a non-parametric distribution. The calculated 95th percent UTLs for Cr(T) and Cr(VI) were 34.1 and 31.8 $\mu\text{g/L}$, respectively (see Table 6-3).

2004 USGS Study to Establish Background Chromium Concentrations in Mojave Desert Area: The USGS published preliminary data results for naturally-occurring Cr(VI) concentrations in groundwater within the southwestern portion of the Mojave Groundwater Basin (Ball and Izbicki, 2004).

This study, which was funded by the USEPA for the California Department of Toxic Substance Control, will be used to establish background levels of Cr(VI) in the southwestern portion of the Mojave Basin, particularly for the El Mirage area (Aerojet facility). The area used to establish the background concentrations included the Hinkley area, but Hinkley plume data were excluded.

Based on this study, Cr(VI) concentrations were found to be lower near mountain-front recharge areas and in discharge areas near dry lakes. Concentrations of Cr(VI) increased downgradient from recharge areas, as long as dissolved oxygen was present. The highest Cr(VI) concentrations (up to 60 $\mu\text{g/L}$) were detected in water from wells completed in alluvial deposits comprising weathered mafic rocks, such as the Sheep Creek fan. Concentrations as high as 36 $\mu\text{g/L}$ were detected in alluvial deposits weathered from less mafic granitic, volcanic, and metamorphic rock (Ball and Izbicki, 2004).

Using this data set, a preliminary regional background level for Cr(VI) of 27 $\mu\text{g/L}$ was determined for Mojave Desert aquifers that are not located in mafic rock materials (CH2M HILL, 2004a).

TABLE 6-3

Hinkley Background Results Compared to Published Studies within Region
Hinkley Valley Groundwater Background Study Report
Hinkley Compressor Station, Hinkley, CA

Study	Hinkley Background Study Mean	Hinkley Background Study UTL	Topock ^a Background Study Mean	Topock ^a Background Study UTL	USGS Mojave ^b (using only groundwater data from wells in granitic and volcanic rocks) UTL
Cr(T)	1.54	3.23	9.37	34.1	not calculated
Cr(VI)	1.26	3.09	7.80	31.8	27

Study	ADEQ ^c Sacramento Valley Study Mean	RASA ^d Program Mean	RASA ^d Program Standard Deviation	RASA ^d Program Range	RASA ^d Program: Number of Samples Collected
Cr(T)	42	10.3	30.7	0-300	436
Cr(VI)	NM	NM	NM	NM	NM

Notes:

NM = Not measured; MRL = Method Reporting Limit; Zero values in RASA range are as reported (no detection limit provided)

All concentrations in $\mu\text{g/L}$

^a CH2M HILL, 2007 Topock Background Study, Step 3&4 Results

^b Ball & Izbicki, 2004, as presented in the *2004 Hinkley Background Study Work Plan*

^c ADEQ Open File Report June 2001. *Ambient Ground Water Quality of the Sacramento Valley Basin: A 1999 Baseline Study*.

^d RASA = Regional Aquifer-System Analysis (Robertson, 1991); zero mean values not explained, but are assumed to indicate >50% below MRL.

The study of Ball and Izbicki (2004) conducted in the Mojave Desert, CA reported a range in Cr(VI) from <0.1 to 60 $\mu\text{g/L}$ with a median of 5.5 $\mu\text{g/L}$. See text for further description.

Other Studies of Background Chromium Values: Other studies of trace metal groundwater chemistry in this region are available in the technical literature. One is Arizona Department of Environmental Quality's (ADEQ's) groundwater quality study of the Sacramento Valley (ADEQ, 2001), which is the groundwater basin immediately to the east of the Mojave Valley. The second is a broader study by the USGS of southwestern United States groundwater basins, named the Southwest Alluvial Basins, Regional Aquifer System Analysis (RASA) Study (Robertson, 1991). This latter study included data collected from 72 basins in central and southern Arizona, southeastern California and Nevada, and western New Mexico. These two studies provide a broad comparison of regional trace element data with data collected during the Hinkley background study.

Table 6-3 compares mean values and 95th percent UTLs for Cr(T) and Cr(VI) from the Hinkley background study with concentrations from other investigations (ADEQ, 2001; Robertson, 1991; Ball and Izbicki, 2004).

Overall, mean chromium concentrations and calculated UTLs in the Hinkley groundwater background study are lower than chromium concentrations found in other site-specific studies.

7.0 Conclusions and Recommendation

This report satisfies requirements for a chromium background study of groundwater in the vicinity of PG&E's Hinkley natural gas compressor station and the associated chromium plume. The analytical results for all wells in the data set were analyzed for hydrogeochemical similarities, temporal trends, potential mathematical outliers, and data set balance to ensure that each sample could be considered representative of the study area. No samples were eliminated from the background data set. Forty-three of the 48 wells sampled during the study exhibited Cr(T) or Cr(VI) detections during at least one of the sampling events. The maximum detected Cr(T) value was 3.15 µg/L at BGS-32 during the third sampling event. The maximum detected Cr(VI) value was 2.69 µg/L at BGS-47 during the fourth sampling event.

The background study data set included wells within the Target Background Study Area where access was granted for sampling. The background study wells comprise a geographically and geologically diverse data set that encompasses many variations in groundwater chemistry. The data are representative of groundwater in the study area of the Hinkley Valley.

Analysis of temporal variation in 14 wells represented by four quarters of data did not indicate seasonal variation. Geochemical signatures of major ions for these 14 wells also indicated little seasonal variation.

For the Hinkley site, chromium isotope ratios were not useful to delineate the specific degradation pattern within the plume or to differentiate anthropogenic versus non-anthropogenic concentrations of Cr(VI).

Average Cr(T) and Cr(VI) well values were used in the statistical analysis. This approach prevents bias of any particular well's data set over another since each well is represented by one average result instead of by the actual number of samples taken at that well. This approach has the added effect of dampening the effects of the most elevated values in the sample set by averaging those results with lower results from other sampling events.

Using the well averages, the calculated 95th percent UTLs are 3.23 µg/L for Cr(T), and 3.09 µg/L for Cr(VI).

The recommended background threshold values are 4.04 µg/L for Cr(T), and 3.55 µg/L for Cr(VI). These values are based on the 95th percent UTL, plus the percent uncertainty introduced by the analytic methods used in Cr(T) and Cr(VI) analysis.

These background threshold Cr(T) and Cr(VI) values represent site-wide background values for long-screened wells in the study area of the Hinkley Valley.

Mean chromium concentrations and calculated 95th percent UTLs for the Hinkley groundwater background study are lower than chromium concentrations found in other studies.

If chromium concentrations above these values are found in the future, a closer examination of the local geochemical environment would be necessary to determine whether the sample concentration is natural or anthropogenic in nature. It would be statistically appropriate to compare the UTL values to well averages for up to four quarters of data.

Recommendation: No additional data collection activities are recommended at this time. However, future evidence may indicate additional analysis is appropriate.

8.0 References

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Appendices

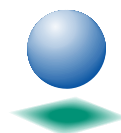
Groundwater Background Study Report

**Hinkley Compressor Station,
Hinkley, California**

Prepared for

**Pacific Gas and Electric Company
California Gas Transmission**

February 28, 2007



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Appendix A

Wind Rose Diagrams

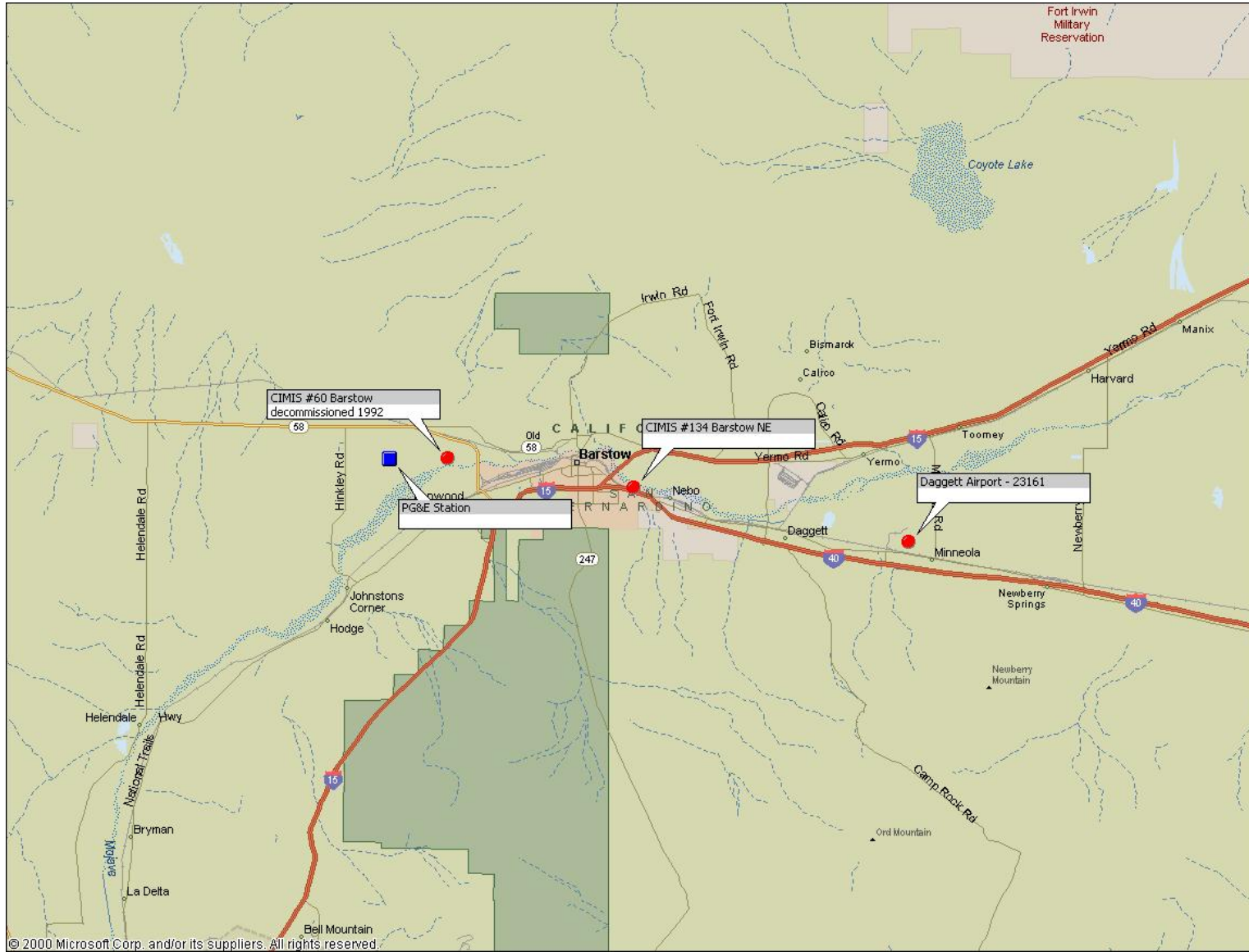
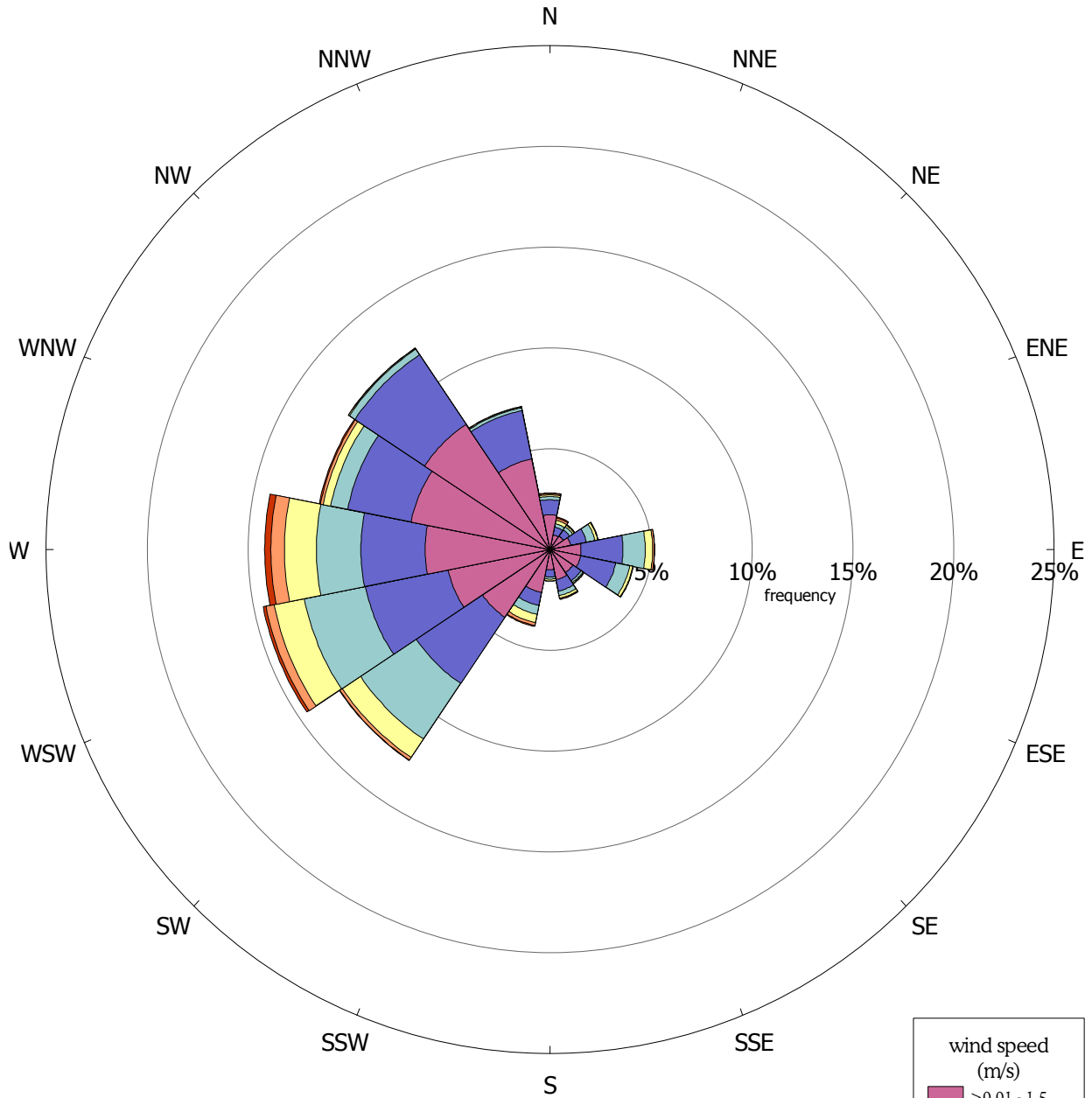


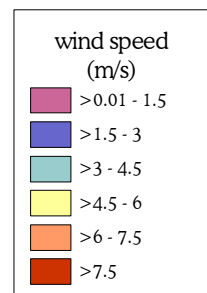
FIGURE A-1
Wind Rose Diagram Locations, Barstow, CA

Barstow
DWR CIMIS Station #60*
January 1, 1987 - December 31, 1991

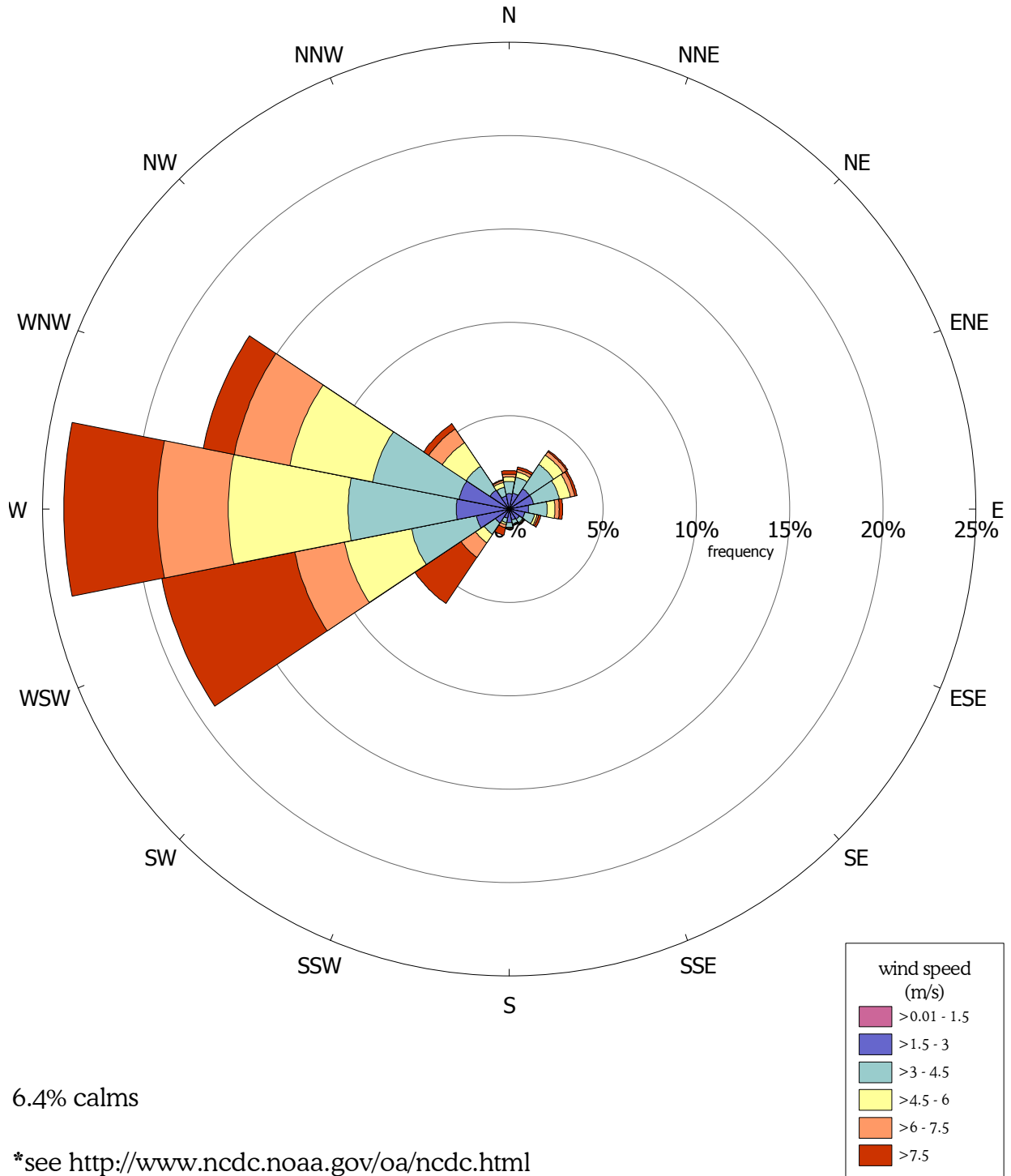


3.5 % calms

* see <http://wwwcimis.water.ca.gov/cimis/welcome.jsp>



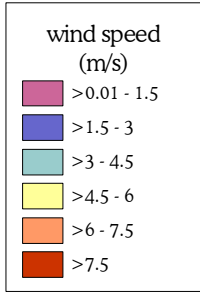
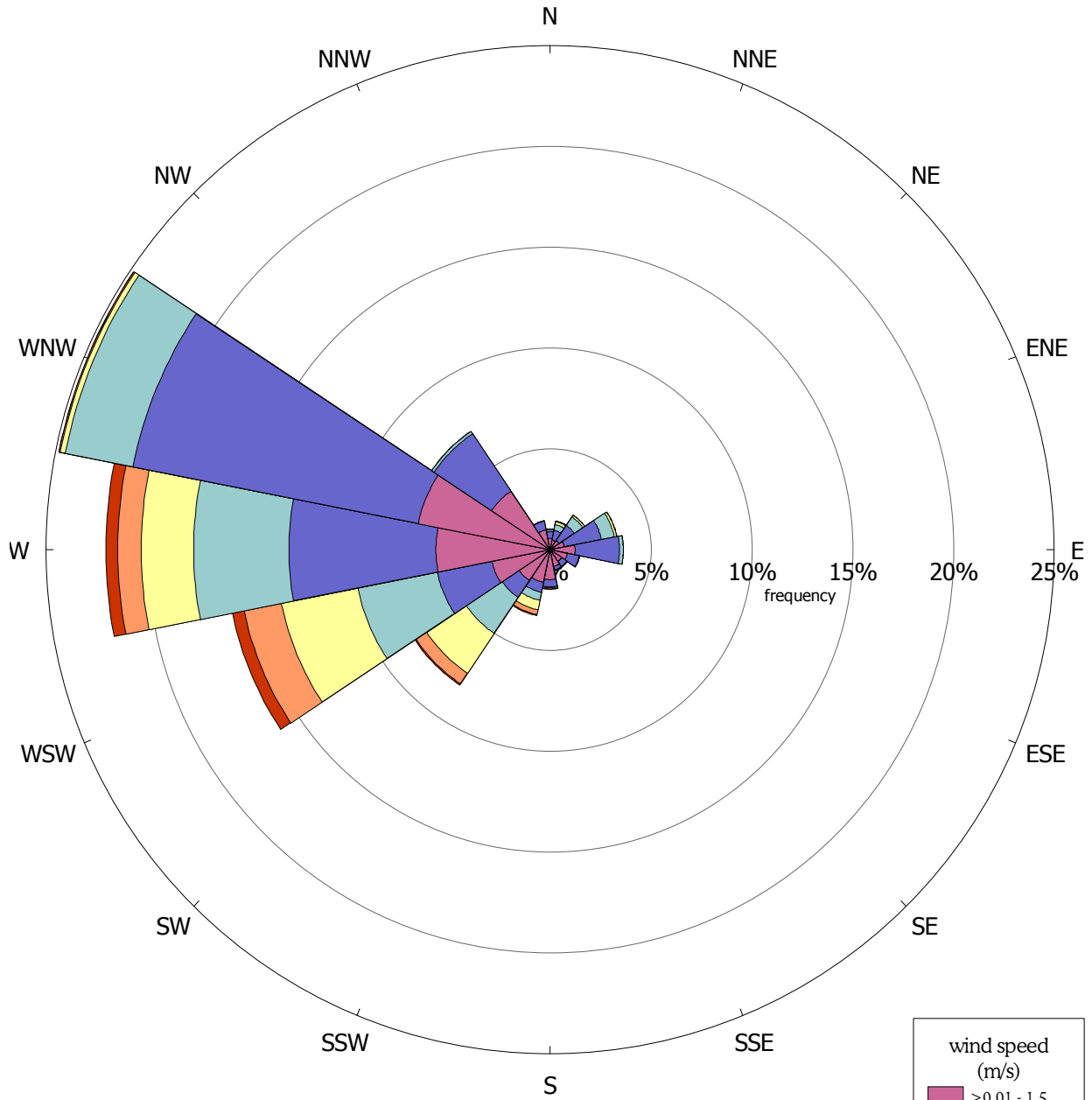
Daggett, California
January 1, 1989 - December 31, 1993
from National Climatic Data Center*



6.4% calms

*see <http://www.ncdc.noaa.gov/oa/ncdc.html>

Barstow NE
DWR CIMIS Station #134*
January 1, 1998 - December 31, 2004



< 1% calms

* see <http://www.cimis.water.ca.gov/cimis/welcome.jsp>

Appendix B

Groundwater Flow Model

Numerical Groundwater Flow Model

The numerical groundwater flow model previously developed for the Hinkley Remediation project was used to evaluate the water budget of the Hinkley Valley, as encompassed by the model domain.

B.1 Groundwater Flow Model

A regional three-dimensional groundwater flow model of the Hinkley Valley was developed as a tool to estimate changes in groundwater conditions due to predicted stresses (anthropogenic and natural) on the local groundwater system. The current numerical model is based in part on a combination of a large-scale basin model of the Mojave River Basin developed by the United States Geological Survey (USGS, 2001) and a previous groundwater flow model developed for the Hinkley site (Alisto, 1998).

The regional groundwater flow model was developed using a three-dimensional, finite-difference model code known as MODFLOW (USGS, 1988). The model is supported by "Groundwater Vistas," which is a software package that supports the MODFLOW code.

B.1.1 Model Grid

MODFLOW simulates groundwater flow in aquifer systems using the finite-difference method. Using this method, the model domain is discretized into rows, columns, and layers that form cells. When overlain on a map of the study area, each cell represents a small part of the region. Each cell is assigned a series of parameters that relate to the average aquifer properties and stresses for that particular region. As the cell size increases, the parameter values describing the actual aquifer properties, which vary over the cell area, become more generalized. The finite-difference grid used in this model consists of 386 rows, 384 columns, and six layers, totaling 763185 active cells (Figure 2-5 main text). Both rows and columns have variable spacing and vary between 1,000 feet wide in the outer portions of the model and 25 feet wide in the central portion of the model. Cells representing smaller areas allowed for a more detailed approximation of the flow system.

B.1.2 Model Layers

The majority of Hinkley Valley is underlain by two distinct aquifer units separated by a clay lacustrine unit, referred to as the Blue Clay unit due to its unique color. The Upper Aquifer consists of interbedded gravels, sands, silts, and minor amounts of clay. The Lower Aquifer consists of older alluvium deposits and/or weathered or fractured bedrock. The Blue Clay is about 20 to 50 feet thick in most of the Hinkley Valley, but pinches out within the distal end of the plume and is not present to the west, and is not present within a few to several hundred feet of the current Mojave River channel (Figure B-1, Extent of Blue Clay).

Hydrostratigraphy of the Hinkley Valley is represented in the regional groundwater flow model with six layers. In areas where the blue clay is present, the classification is simple:

Layers 1, 2 and 3 represent the Upper Aquifer, Layer 4 is the Blue Clay unit, and Layer 5 represents the Lower Aquifer, and Layer 6 represents low permeability, competent bedrock. In the area northwest of the plume, the properties of Layer 4 transition from those of the Blue Clay to those of the Upper Aquifer in this region. In the area surrounding the Mojave River channel, the properties of Layer 4 also transition to those of the Upper Aquifer.

B.1.3 Boundary Conditions

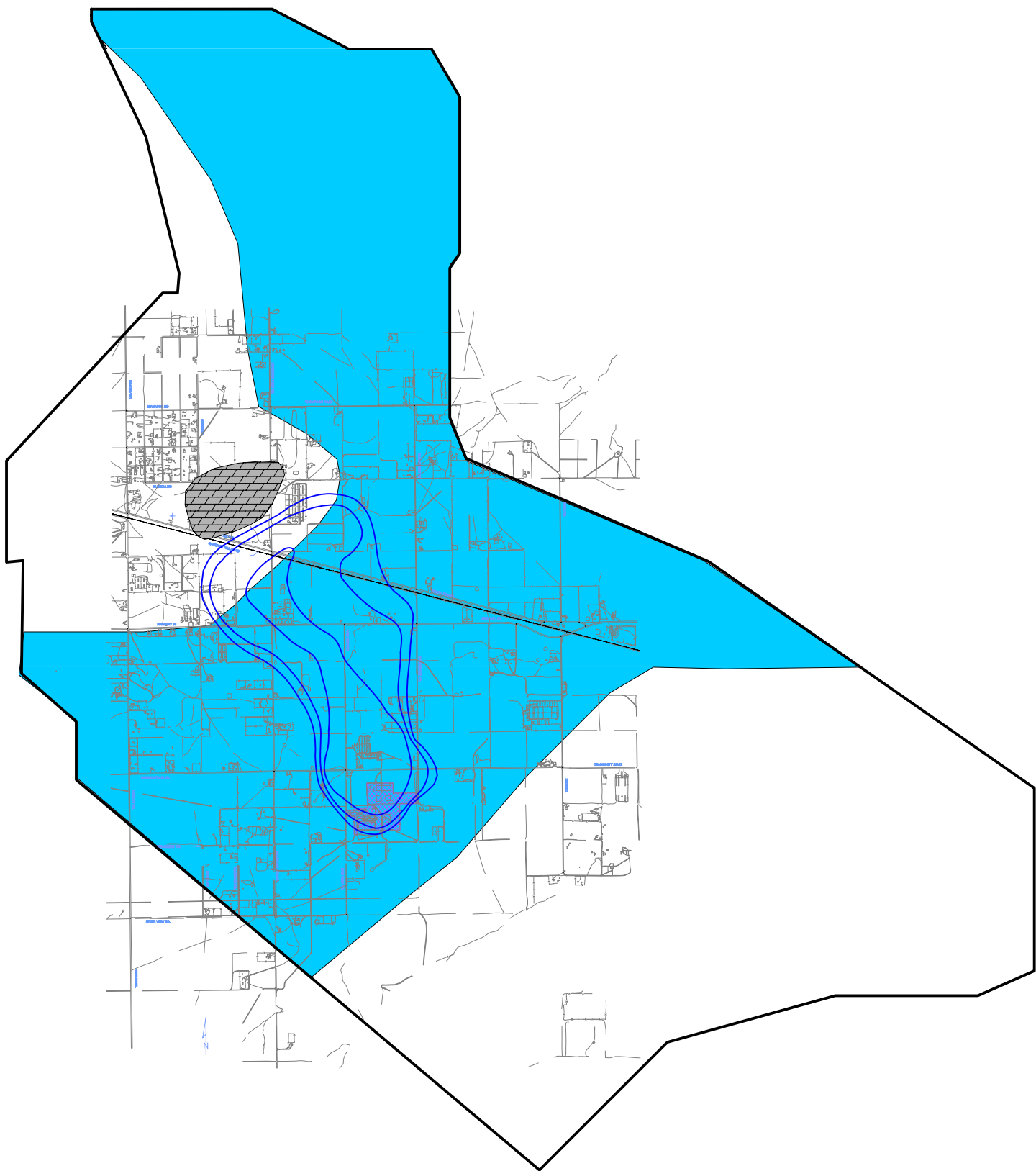
The aerial extent of the model roughly coincides with the natural boundaries of the Hinkley Valley (Figure 2-5 in the main text). Accurate representation of the Valley's natural boundaries in the numerical model is required to accurately simulate the basin-wide groundwater flow patterns and provide reasonable simulated responses to stresses. Figure 2-5 shows the locations of the boundary conditions. Groundwater enters the southern model area from the Mojave River floodplain aquifer and the alluvial fan structure west of the river. These boundaries and the eastern portion of the Mojave floodplain aquifer, where flow is directed towards Barstow, are represented as general head boundaries. Water exits the Hinkley Valley to the north via a constant head boundary, representing subsurface outflow to the Harper Valley. The Mojave River periodically flows within the model domain, and recharge from the river is simulated using injection wells. No-flow boundaries are used along the western, eastern and southeastern margins of the model domain. These boundary conditions are summarized in Table B-1.

TABLE B-1
Water Budget Components Used in Hinkley Numerical Model
Hinkley Compressor Station, Hinkley, CA

Budget Component	Description
IN: Change in storage	From falling groundwater levels
IN: Wells	Injection wells are used to simulate inflow to the groundwater system from the Mojave River when it flows and from Lenwood intentional recharge
IN: Head Dependent Boundary	Groundwater inflow from Mojave River channel and Alluvial Fan (southern model boundary)
IN: Recharge	Deep percolation of agricultural and domestic applied water
OUT: Change in storage	From rising groundwater levels
OUT: Wells	Groundwater pumping
OUT: Head Dependent Boundary	Groundwater flow toward Barstow (east, Mojave River channel)
OUT: General Head Boundary	Groundwater outflow toward Harper Lake (north)
INTERNAL: Lockhart Fault zone	Flux through the fault zone
INTERNAL: East of bedrock outcrop	Flux to the east of the outcrop at the distal end of the plume
INTERNAL: West of bedrock outcrop	Flux to the west of the outcrop at the distal end of the plume

B.1.4 Model Calibration

The model was recalibrated after the 2006 drilling program. The assumed properties of the regional groundwater flow model were adjusted locally such that simulated hydraulic heads matched measured groundwater elevations for the simulated period. During model calibration the assumed aquifer properties (e.g., hydraulic conductivity and storage coefficients) were further adjusted within reasonable bounds to match simulated drawdown with drawdown observed in numerous aquifer tests performed at the site.



Approximate local extent of bedrock in Upper Aquifer



August 2006 Cr (T) boundary (50, 10, 4 ug/L)



Model Boundary



Approximate Extent of Blue Clay

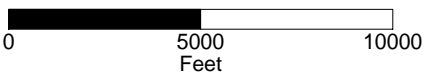


FIGURE B-1

Approximate Extent of Blue Clay

HINKLEY BACKGROUND STUDY REPORT

PACIFIC GAS AND ELECTRIC COMPANY

HINKLEY COMPRESSOR STATION, HINKLEY, CALIFORNIA

CH2MHILL

Appendix B

Hinkley Site Water Levels, February, 2006

Hinkley Groundwater Monitoring Program

Hinkley Compressor Station, Hinkley, California

Project or State Well ID	Easting	Northing	Water Level (feet above mean sea level)	Date
02-02A	2250280	512654	2135.71	2/13/06
03-01A	2248212	511626	2142.92	2/13/06
26-04	2249203	521157	2091.66	2/13/06
26-07	2248988	519027	2095.29	2/13/06
26-09	2249409	519196	2095.55	2/13/06
26-16	2251521	518665	2095.97	2/13/06
26-23	2251230	522831	2090.68	2/13/06
26-29	2251511	519263	2096.81	2/13/06
27-04	2248293	521360	2091.75	2/13/06
35-10A	2252035	513254	2113.09	2/13/06
35-11	2252633	514101	2111.03	2/13/06
35-13	2251730	514515	2112.00	2/13/06
35-14	2253828	513786	2114.01	2/13/06
35-26	2251701	513744	2110.39	2/13/06
35-33	2252668	515933	2106.62	2/13/06
DW-01	2249950	521147	2093.66	2/13/06
DW-02	2249104	523256	2090.97	2/13/06
DW-03	2250937	523731	2086.76	2/13/06
IW-01	2250050	520590	2094.22	2/13/06
IW-02	2250659	520431	2094.10	2/13/06
MW-01	2252397	511859	2116.92	2/13/06
MW-02	2251476	512909	2112.73	2/13/06
MW-03	2253815	513062	2116.00	2/13/06
MW-03A	2253805	513064	2115.87	2/13/06
MW-04	2251438	514097	2119.00	2/13/06
MW-05	2253853	514480	2111.95	2/13/06
MW-06	2251476	516053	2103.41	2/13/06
MW-07	2252654	517319	2104.45	2/13/06
MW-08	2250108	517247	2097.97	2/13/06
MW-09	2251932	518400	2098.58	2/13/06
MW-10	2250096	519460	2095.71	2/13/06
MW-11A	2252699	514451	2110.09	2/13/06
MW-11B	2252720	514460	2110.44	2/13/06
MW-12A	2252054	516459	2103.89	2/13/06
MW-12B	2252045	516490	2102.42	2/13/06
MW-13	2251391	517208	2099.88	2/13/06
MW-14A	2250968	518257	2097.96	2/13/06
MW-14B	2250969	518237	2097.40	2/13/06
MW-16	2252090	514982	2107.61	2/13/06
MW-17	2252628	511328	2121.67	2/13/06
MW-18	2250956	516777	2099.43	2/13/06
MW-19	2249346	520319	2094.21	2/13/06
MW-2-2	2252298	513029	2112.66	2/13/06
MW-2-3	2251930	513478	2112.17	2/13/06

Appendix B

Hinkley Site Water Levels, February, 2006

Hinkley Groundwater Monitoring Program

Hinkley Compressor Station, Hinkley, California

Project or State Well ID	Easting	Northing	Water Level (feet above mean sea level)	Date
MW-2-4	2252979	513049	2113.71	2/13/06
MW-2-5	2252571	513880	2112.51	2/13/06
MW-2-6	2251829	514118	2112.40	2/13/06
MW-20	2252218	512766	2112.41	2/13/06
MW-21A	2251192	522328	2091.10	2/13/06
MW-21B	2251177	522313	2089.82	2/13/06
MW-21B1	2251190.7	522297	2090.76	2/13/06
MW-22A1	2250367	520473	2094.09	2/13/06
MW-22A2	2250344	520456	2094.20	2/13/06
MW-22B	2250356	520419	2094.21	2/13/06
MW-23A	2249410	520713	2093.75	2/13/06
MW-23B	2249382	520707	2093.75	2/13/06
MW-24A1	2251446	520143	2094.66	2/13/06
MW-24A2	2251426	520164	2095.67	2/13/06
MW-24B	2251454	520175	2094.89	2/13/06
MW-25A2	2250916	520307	2094.47	2/13/06
MW-25B	2250925	520336	2094.42	2/13/06
MW-26	2249830	520619	2094.00	2/13/06
MW-27A	2252630	518435	2101.36	2/13/06
MW-27B	2252628	518435	2097.84	2/13/06
MW-28A	2248686	520325	2093.99	2/13/06
MW-28B	2248687	520350	2093.94	2/13/06
MW-29	2248666	521611	2091.95	2/13/06
MW-30A	2251179.7	521446	2091.55	2/13/06
MW-30B1	2251227	521470	2090.93	2/13/06
MW-30B2	2251236	521471	2089.80	2/13/06
MW-31	2250350	522197	2091.51	2/13/06
MW-32B1	2252031	522533	2091.52	2/13/06
MW-32B2	2252056	522544	2091.56	2/13/06
MW-33A	2253974	517314	2105.28	2/13/06
MW-33B	2253975	517339	2099.93	2/13/06
MW-35	2253962	515590	2109.35	2/13/06
MW-36	2250942	513227	2112.74	2/13/06
MW-37	2248684	516268	2097.45	2/13/06
MW-38A	2248671	517914	2095.99	2/13/06
MW-38B	2248670	517883	2096.00	2/13/06
MW-39	2253282	511052	2118.13	2/13/06
MW-40	2249634	514892	2112.79	2/13/06
MW-41A	2252945	520210	2097.83	2/13/06
MW-41B	2252958	520205	2095.63	2/13/06
MW-42B1	2249877	521132	2092.54	2/13/06
MW-42B2	2249870	521133	2093.60	2/13/06
MW-43	2250828	522565	2090.65	2/13/06
MW-44A	2247448	518341	2095.21	2/13/06

Appendix B

Hinkley Site Water Levels, February, 2006

Hinkley Groundwater Monitoring Program

Hinkley Compressor Station, Hinkley, California

Project or State Well ID	Easting	Northing	Water Level (feet above mean sea level)	Date
MW-44B	2247448	518348	2095.15	2/13/06
MW-45A	2247410	519864	2093.78	2/13/06
MW-45B	2247416	519860	2093.52	2/13/06
MW-46	2253878	512000	2116.89	2/13/06
MW-47	2247312	521071	2091.35	2/13/06
MW-48	2248735	513523	2117.50	2/13/06
MW-49A	2253864	519055	2102.48	2/13/06
MW-49B	2253856	519054	2101.58	2/13/06
MW-50A	2252668	521169	2094.08	2/13/06
MW-50B	2252667	521174	2094.41	2/13/06
MW-51	2250437	512230	2124.05	2/13/06
MW-52	2255068	513281	2117.28	2/13/06
MW-53	2251477	510911	2128.48	2/13/06
MW-54	2246487	518679	2094.46	2/13/06
MW-55A	2252516	523913	2088.46	2/13/06
MW-55B	2252518	523894	2090.32	2/13/06
MW-56	2251233	520747	2093.50	2/13/06
PGE-07	2252672	513157	2112.60	2/13/06
PGE-09	2251555	511261	2130.07	2/13/06
PGE-11	2253944	509393	2132.17	2/13/06
PGE-12	2253913	509836	2123.49	2/13/06
PGE-13	2253904	510223	2122.66	2/13/06
PMW-01	2252626	511980	2116.82	2/13/06
PMW-02	2252984	512353	2116.08	2/13/06
PMW-03	2253007	512742	2115.78	2/13/06
PMW-04	2252798	512738	2113.56	2/13/06
PMW-05	2252601	512734	2113.25	2/13/06
PMW-06	2252356	512731	2112.82	2/13/06
TW-2S	2251172	521879	2090.11	2/13/06
X-02	2252445	513136	2112.62	2/13/06
X-05	2253145	513281	2113.54	2/13/06
X-06	2252678	513675	2112.34	2/13/06
X-09	2252599	514863	2108.95	2/13/06
X-10	2252612	515260	2108.11	2/13/06
X-12	2252325	515293	2107.39	2/13/06
X-14	2252770	515578	2107.96	2/13/06
X-15	2253276	515793	2107.62	2/13/06
X-16	2253110	515202	2108.80	2/13/06
09N02W02E001S	2280919	511484	2097.35	2/3/06
09N02W03A002S	2280426	512899	2099.28	2/3/06
09N02W03E001S	2276512	511371	2104.68	2/3/06
09N02W06H006S	2264522	510863	2116.63	2/2/06
09N02W06L012S	2261535	509599	2131.45	2/2/06
09N02W06L014S	2261535	509599	2134.15	2/2/06

Appendix B

Hinkley Site Water Levels, February, 2006

Hinkley Groundwater Monitoring Program

Hinkley Compressor Station, Hinkley, California

Project or State Well ID	Easting	Northing	Water Level (feet above mean sea level)	Date
09N02W06M007S	2260637	509409	2134.09	2/2/06
09N02W06P001S	2261447	509307	2132.97	2/2/06
09N02W06P002S	2260789	509083	2135.78	2/2/06
09N03W01R006S	2258124	508660	2135.76	2/2/06
09N03W01R007S	2258124	508660	2136.77	2/2/06
09N03W14N001S	2248975	498065	2186.01	2/2/06
09N03W23C001S	2251414	496993	2181.09	2/2/06
09N03W23D002S	2248993	495954	2191.55	2/2/06
09N03W23F001S	2251433	494773	2182.19	2/2/06
09N03W23F002S	2251433	494773	2192.45	2/2/06
09N03W23F003S	2251433	494773	2190.67	2/2/06
09N03W23L001S	2251433	494664	2190.45	2/2/06

Appendix C

Field Data Sheets

APPENDIX C

Index to Background Study Sampling Field Logs

(Sorted by Well ID and Quarter)

Well ID	Quarter	Date Sampled
01-06	Q03	07/27/2006
04E-01	Q03	07/25/2006
	Q04	10/25/2006
06E-01	Q03	07/24/2006
	Q04	10/25/2006
27-03	Q03	07/27/2006
36-24	Q03	07/27/2006
36-25	Q03	07/27/2006
BGS-01	Q01	01/31/2006
	Q02	04/25/2006
	Q03	07/25/2006
	Q04	10/23/2006
BGS-04	Q01	02/01/2006
	Q02	04/26/2006
	Q03	07/25/2006
	Q04	10/23/2006
BGS-05	Q01	01/31/2006
	Q02	04/25/2006
BGS-06	Q01	01/31/2006
	Q02	04/26/2006
	Q03	07/24/2006
	Q04	10/23/2006
BGS-09	Q01	01/30/2006
	Q02	04/24/2006
	Q03	07/24/2006
	Q04	10/24/2006
BGS-10	Q01	01/31/2006
	Q02	04/26/2006
	Q03	07/26/2006
	Q04	10/24/2006
BGS-12	Q01	01/30/2006
	Q02	04/24/2006
	Q03	07/24/2006
	Q04	10/23/2006
BGS-13	Q01	01/31/2006
	Q02	04/27/2006
	Q03	07/25/2006
BGS-14	Q01	01/31/2006
	Q02	04/26/2006
	Q03	07/26/2006
	Q04	10/23/2006

APPENDIX C

Index to Background Study Sampling Field Logs

(Sorted by Well ID and Quarter)

Well ID	Quarter	Date Sampled
BGS-15	Q01	01/31/2006
	Q02	04/26/2006
	Q03	07/25/2006
	Q04	10/23/2006
BGS-16	Q01	01/31/2006
	Q02	04/24/2006
	Q03	07/25/2006
	Q04	10/23/2006
BGS-18	Q01	02/01/2006
	Q02	04/25/2006
	Q03	07/25/2006
	Q04	10/24/2006
BGS-19	Q02	04/25/2006
	Q03	07/25/2006
	Q04	10/24/2006
BGS-22	Q01	01/30/2006
	Q02	04/25/2006
	Q03	07/24/2006
	Q04	10/24/2006
BGS-23	Q01	01/31/2006
	Q02	04/24/2006
	Q03	07/25/2006
	Q04	10/24/2006
BGS-24	Q01	02/02/2006
	Q02	04/26/2006
	Q03	07/27/2006
BGS-25	Q01	01/30/2006
	Q02	04/26/2006
	Q03	07/26/2006
	Q04	10/23/2006
BGS-27	Q01	02/02/2006
	Q02	04/25/2006
	Q03	07/26/2006
	Q04	10/24/2006
BGS-28	Q03	07/26/2006
	Q04	10/25/2006
BGS-29	Q03	07/26/2006
	Q03	09/26/2006
	Q04	11/13/2006
BGS-30	Q03	07/26/2006
BGS-31	Q03	07/26/2006
	Q03	09/27/2006
	Q04	11/13/2006

APPENDIX C**Index to Background Study Sampling Field Logs**

(Sorted by Well ID and Quarter)

Well ID	Quarter	Date Sampled
BGS-32	Q03	09/26/2006
	Q04	11/15/2006
BGS-33	Q03	09/26/2006
	Q04	11/15/2006
BGS-34	Q03	09/26/2006
	Q04	11/13/2006
BGS-35	Q03	09/26/2006
	Q04	11/15/2006
BGS-36	Q03	09/26/2006
	Q04	11/13/2006
BGS-37	Q03	09/26/2006
	Q04	11/13/2006
BGS-38	Q03	09/27/2006
	Q04	11/13/2006
BGS-39	Q03	09/27/2006
	Q04	11/15/2006
BGS-40	Q03	09/27/2006
	Q04	11/15/2006
BGS-41	Q03	09/27/2006
	Q04	11/14/2006
BGS-42	Q03	09/27/2006
	Q04	11/15/2006
BGS-43	Q03	09/28/2006
	Q04	11/14/2006
BGS-44	Q03	09/28/2006
	Q04	11/14/2006
BGS-45	Q03	09/28/2006
BGS-46	Q03	09/28/2006
	Q04	11/15/2006
BGS-47	Q03	09/28/2006
	Q04	11/15/2006
BGS-48	Q03	09/28/2006
BGS-49	Q03	09/28/2006
	Q04	11/14/2006
BGS-50	Q04	11/13/2006
BGS-51	Q04	11/14/2006

Quarter 1 2006

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team _____

Field Conditions _____

Sampling Event 1606

Date 01-30-06

Page _____ of _____

Well/Sample Number 865-12-013006

QC Sample ID _____

Purge Method: _____

Ded. Pump _____

QC Sample Time _____

Purge Rate (gpm) (mlpm) 4

Flow Cell: Y / N **Instrument Serial Number:** _____

Min. Purge Volume (gal)/(l) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
6359	10:38	4 gpm	7.54	0.632	11.18	12.9	
6360	10:41	10	7.58	0.637	11.07	12.8	
6461	10:44	28	7.63	0.640	11.07	12.8	
6362	10:47	40	7.63	0.638	10.98	12.7	

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling? y n

pH units +/- 0.1 **Diss. Oxygen mg/L** +/- 5% **Temp. °C** +/- 0.5

Conductivity +/- 5% **NA**

Other: _____

Sample Time 10:48

Sample Location: _____

Comments: _____

Initial Depth to Water (ft BIOC): _____

WD (Well Depth - from table) ft btoe: _____

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other

Solids: Trace, Small Q, Med Q, Large Q, Particulate, Silt, Sand

Measure Point: Well TOC **Water Level Meter Serial Number:** 101-300-P6E

_____ **#35**

Project Name PG&E Hinkley Background Study **Sampling Event** 1906
 Job Number 328060.BS.WS.00 Date 1-30-06
 Field Team Field Conditions warm Page of

Well/Sample Number BGS-09-013006 QC Sample ID
 Purge Start Time 1214 Purge Method: Ded. Pump
 Flow Cell: Y / N Instrument Serial Number: C-101811 Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm) 4

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS / c	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
N/A	1217	4	7.90	335	11.44	16.1	
"	1220	16	7.80	330	11.71	16.1	
"	1223	28	7.79	331	12.02	16.0	
"	1226	40	7.80	331	12.26	16.0	
"	1229	52	7.81	332	12.48	16.0	

Parameter Stabilization Criteria:
 +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA
 +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA

Sample Time 1230 Sample Location: pump tubing well port: spigot:
 Comments: boiler other

Initial Depth to Water (ft BIOC): N/A Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: N/A
 WD (Well Depth - from table) ft btop: ~95
 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 PG&E Hinkley Background Study **Sampling Event** 1006
Job Number 328060.BS.WS.00 **Date** 01/30/06
Field Team _____ **Page** _____ of _____

Well/Sample Number BGS-22-013006 **QC Sample ID** BGS-90013004
Purge Start Time 13:20 **Purge Method:** _____ **Dec. Pump** _____
Flow Cell: Y (N) **Instrument Serial Number:** C-101811 **Min. Purge Volume (gal/L)** _____ **Purge Rate (gpm)/(ml/min)** 5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
67.68	13:07						
67.65	13:20	59 gal	7.98	408	15.92	16.5	
67.65	13:23	20 gal	8.08	340	13.50	18.1	
67.64	13:26	35 gal	8.05	344	11.65	20.1	
67.64	13:29	50 gal	8.07	346	11.40	20.6	
67.64	13:32	65 gal	8.07	345	11.14	20.7	

Parameter Stabilization Criteria:
 +/- 0.1 pH units **Y** +/- 5% **Y** +/- 0.5 mg/L **Y** NA
 NA
 NA
 NA
 NA

Sample Time 15:33 Sample Location: _____
 Comments: _____

Initial Depth to Water (ft BIOC): 67.68
 WD (Well Depth - from table) ft bIOC: _____
 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 101-300-P6E
Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small GU, Med GU, Large GU, Particulate, Silt, Sand #33

Project Name PG&E Hinkley Background Study **Sampling Event** 1Q06
 Job Number 328060.BS.W5.00 **Date** 01-30-06
 Field Team _____ Page _____ of _____

Field Conditions _____

Well/Sample Number BGS-25-013000 **QC Sample ID** _____ **QC Sample Time** _____
 Purge Start Time 14:04 **Purge Method:** _____ **Ded. Pump** _____
 Flow Cell: Y / N **Instrument Serial Number:** _____ **Min. Purge Volume (gal)/(l)** _____ **Purge Rate (gpm) (mlpm)** 4

Water Level:	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
67.41	1407	15.12	7.43	1.45	11.40	20.8	
67.02	1410	24	7.40	1.47	11.45	20.9	
66.95	1413	36	7.42	1.44	11.70	21.0	
66.95	1416	48	7.49	1.46	11.70	20.1	

Parameter Stabilization Criteria:
 +/- 0.1 pH units
 +/- 5% Conductivity
 +/- 0.5 mg/L Diss. Oxygen
 NA Temp.

Did Parameter's Stabilize prior to sampling? Y N NA

Sample Time 1417 Sample Location: _____ pump tubing _____ well port _____ **bolter** _____ **other** _____ **SP100** _____

Initial Depth to Water (ft BIOC): 66.85 **Measure Point:** Well TOC **Steel Casing** **Water Level Meter Serial Number:** 101-300-06E
 WD (Well Depth - from table) ft btoc: _____ **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand #35
Color: clear, grey, yellow, brown, black, cloudy, green

Project Name PG&E Hinkley Background Study **Sampling Event** 13006
 Job Number 328060.BS.WS.00 Date 01/31/2006
 Field Team WJG, GB, KE Field Conditions Sunny Cool GS Page 1 of 1

Well/Sample Number 86S-23-013100 **QC Sample ID** _____
 Purge Start Time 08:39 Purge Method: _____ Ded. Pump _____
 Flow Cell: Instrument Serial Number: _____ Min. Purge Volume (gal)/(L) 5 Purge Rate 5 (gpm)/(mLpm) 5

Water Level:	Time	Vol. Purged (gallons / liters)	pH	Conductivity	Diss. Oxygen (mg/L)	Temp. (°C)	Comments (See descriptors below)
100 Greater Than	08:42	5 gpm	7.19	.441	7.74	19.7	
	08:44	10 gpm	7.58	.439	7.65	20.4	
	08:46	25	7.66	.444	7.76	20.1	
	08:50	35	7.68	.440	7.7	20.5	

Parameter Stabilization Criteria:
 +/- 0.1 pH units +/- 5% Conductivity +/- 0.5 mg/L Diss. Oxygen +/- 0.5 mg/L Temp. NA
 Did Parameters Stabilize prior to sampling? Yes No

Sample Time 08:51 Sample Location: _____ pump tubing _____ well port _____
 Comments: well depth greater than 100'

Initial Depth to Water (ft) (BIOC): _____ Measure Point: _____ Well TOC _____ Steel Casing _____ WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btec: _____
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 PG&E Hinkley Background Study
 Job Number 328060.BS.WS.00
 Field Team BGS Field Conditions

Sampling Event 1906
 Date 01/31/2006
 Page _____ of _____

Well/Sample Number BGS-16-013106 **QC Sample ID** _____
 Purge Start Time 09:07 **Purge Method:** _____
 Flow Cell: Y (N) Instrument Serial Number: _____ **Min. Purge Volume (gal)/(L)** _____
 _____ **Ded. Pump** _____
 _____ **Purge Rate (gpm) (mlpm)** 3
 _____ **QC Sample Time** _____

Water Level:	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	09:09	6	7.53	1.17	10.32	15.1	slow purge
	09:11	12	7.52	1.15	8.01	19.6	
	09:13	18	7.49	1.15	7.54	20.9	
	09:15	24	7.55	1.16	7.45	20.8	
	09:17	30	7.52	1.16	7.36	20.5	

Parameter Stabilization Criteria:
 +/- 0.1 pH units **Y** +/- 5% **Y** +/- 0.5 mg/L **NA**
 Did Parameters Stabilize prior to sampling? **Y**
 Sample Time 0920 Sample Location: _____ well casing _____ boiler _____ other _____
 Comments: _____ pump tubing _____ well cap _____

Initial Depth to Water (ft BTOC): 90.70 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
 Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Q, Med Q, Large Q, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Date 01-31-06

Page 1 of 1

Field Conditions

Sampling Event 1606

Well/Sample Number BGS-01-03104

QC Sample ID

QC Sample Time

Purge Method: Purge Volume (gal)/(L) Min. Purge Volume (gal)/(L) Purge Rate (gpm) (mLpm)

Flow Cell: Y / N Instrument Serial Number: C101811 Ded. Pump 2

Water Level	Time	Vol. Purged (gallons / liters)	pH	Conductivity	Diss. Oxygen (mg/L)	Temp. (°C)	Comments (See descriptors below)
	93.28	2	7.63	1.20	12.93	11.3	
	92.50	6	7.51	1.13	8.49	18.8	
	98.70	19	7.49	1.15	8.25	19.5	
	94.00	12	7.52	1.11	8.10	19.6	

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA

Die Parameters Stabilize prior to sampling? Y Y Y NA

Sample Time 1015 Sample Location: pump tubing well port well port spigot

Comments:

Initial Depth to Water (ft BTOC): 93.28 Measure Point: Well TOC Steel Casing Water Level Meter Serial Number: ...
 WD (Well Depth - from table) ft btoc:
Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Q, Med Q, Large Q, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study
 Job Number 328060.BS.WS.00
 Field Team 865 Field Conditions _____

Sampling Event 1006
 Date 01/31/2006
 Page _____ of _____

Well/Sample Number BGS-13-0131060 **QC Sample ID** _____
Purge Start Time 10:40 **Purge Method:** _____ **Decl. Pump** _____
Flow Cell: Y / N **Instrument Serial Number:** _____ **Min. Purge Volume (gal/l)** _____ **Purge Rate (gpm) (mt/pm)** 2.5 **QC Sample Time** _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	10:42	5 gals	7.18	1.03	10.88	15.8	
	10:44	10 gals	7.20	1.03	10.73	16.0	
	10:46	15 gals	7.18	1.03	10.45	16.5	
	10:48	20 gals	7.16	1.04	10.38	16.8	

Parameter Stabilization Criteria:

+/- 0.1 pH units	Y	+/- 5%	Y	+/- 0.5 mg/L	NA
Did Parameters Stabilize prior to sampling?	Y		Y		NA

Sample Time 10:50 Sample Location: _____
 pump tubing _____ well port _____
 boiler _____ other _____
 Comments: sample port - irrigation drip tubing East of well

Initial Depth to Water (ft BTOC): 64.41 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
 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 PG&E Hinkley Background Study Sampling Event 1Q06
 Job Number 328060.BS.WS.00 Date 1-31-06
 Field Team _____ of _____ Page _____ of _____
 Field Conditions _____

Well/Sample Number BGS-06-013006 QC Sample ID _____ Dec. Pump _____
 Purge Start Time 11:15 Purge Method: _____ Purge Rate 5 (gpm) (mlpm)
 Flow Cell: Y / N Instrument Serial Number: _____ Min. Purge Volume (gal)/(l) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	11:17	5 gpm	7.44	619	12.42	15.8	
	11:19	10 gpm	7.34	610	12.50	15.5	
	11:21	15 gpm	7.34	611	12.24	15.5	
	11:23	20 gpm	7.33	607	12.00	15.4	
		40 gpm					

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% Conductivity +/- 0.5 mg/L Diss. Oxygen NA Temp.
 Did Parameters Stabilize prior to sampling? Y N NA

Sample Time 11:25 Sample Location: _____ pump tubing _____ well port _____ solgot _____
 Comments: _____

Initial Depth to Water (ft BIOC): 60.03 Measure Point: We: TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft bioc: _____
 Color: clear, grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Handwritten: 10.0, 15.6

Project Name PG&E Hinkley Background Study **Sampling Event** 1006
 Job Number 328060.BS.WS.00 **Date** 01/31/2006
 Field Team _____ Page _____ of _____

Field Conditions _____ **QC Sample ID** _____ **QC Sample Time** _____
 Well/Sample Number **865-10-013000** **Purge Method:** _____ **Ded. Pump** _____
 Purge Start Time **12:55** **Purge Volume (gal)/L** _____ **Purge Rate (gpm)/(mLpm)** **5**
 Flow Cell: Y / N Instrument Serial Number: _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
greater	12:57	5 gpm	7.87	.467	9.43	21.9	
thin	12:59	10 gpm	7.82	.464	8.90	22.9	
100'	13:01	15 gpm	7.81	.464	8.85	22.7	
	13:03	20 gpm	7.78	.463	8.59	22.8	
		40 gal					

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% Conductivity +/- 0.5 mg/L Diss. Oxygen
 Diss. Parameters Stabilize prior to sampling? **Y** **Y** **Y** **Y** **Y**
 Sample Location: _____ purg tubing _____ well port _____ solgat _____ boiler _____ other _____
 Comments: _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____ **Odor:** none, sulphur, organic, other **Color:** clear, grey, yellow, brown, black, cloudy, green
Solids: Trace, Small Q, Med Q, Large Q, Particulate, Silt, Sand

8.85
 + 0.50
 9.35

Project Name PG&E Hinkley Background Study **Sampling Event** 1606
 Job Number 328060.BS.WS.00 Date 01/31/06
 Field Team _____ of _____ Page _____ of _____

Well/Sample Number BG-14-013106 **QC Sample ID** _____
 Purge Start Time 13:46 **Purge Method:** _____ **QC Sample Time** _____
 Flow Cell: Y / N **Instrument Serial Number:** _____ **Min. Purge Volume (gal)/(L)** _____ **Purge Rate (gpm)(mL/min)** 4

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	13:48	8 gal	7.80	427	13.50	13.4	
	13:50	8 gal	7.72	426	13.30	13.4	
	13:52	12 gal	7.70	425	12.45	14.2	
	13:54	48 gal	7.68	420	12.30	14.3	

Parameter Stabilization Criteria: +/- 0.1 pH units **Y** +/- 5% **Y** +/- 0.5 mg/L **N** NA
 Diss. Parameters Stabilize prior to sampling? **Y** **N** NA

Sample Time 13:56 Sample Location: _____ well port _____ sp gr _____
 pump tubing _____ boiler _____ other _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Stee Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
 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 PG&E Hinkley Background Study
Job Number 328060.BS.WS.00
Field Team **663**

Sampling Event 1306

Date 01/31/06
Page 1 of 1

Well/Sample Number 86-15-013106 QC Sample ID MW391 QC Sample Time 14:45
Purge Start Time 14:18 Purge Method: 5
Flow Cell: Y Instrument Serial Number: Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mlpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	<u>14:19</u>	<u>5 gpm</u>	<u>7.88</u>	<u>0.97</u>	<u>10.15</u>	<u>18.6</u>	
	<u>14:21</u>	<u>10 gpm</u>	<u>7.84</u>	<u>0.98</u>	<u>10.57</u>	<u>18.7</u>	
	<u>14:23</u>	<u>15 gpm</u>	<u>7.85</u>	<u>0.98</u>	<u>10.67</u>	<u>19.0</u>	
	<u>water 14:25</u>	<u>20 gpm</u>	<u>7.83</u>	<u>0.98</u>	<u>10.95</u>	<u>18.9</u>	
	<u>level</u>	<u>35 gal</u>					

Parameter Stabilization Criteria:
Did Parameters Stabilize prior to sampling? Y +/- 0.1 pH units Y +/- 5% Y +/- 0.5 mg/L Y NA NA
Sample Time 14:27 Sample Location: pump tubing well port bailer other
Comments:

Initial Depth to Water (ft BTOC): Measure Point: We I TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
WD (Well Depth - from table) ft btoc: **Color** clear grey, yellow, brown, black, cloudy, green **Odor** none sulphur, organic, other **Solids:** Trace, Small Q, Med Q, Large Q, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Sampling Event 1Q06

Job Number 328060.BS.WS.00

Date 01/31/04

Field Team _____ Field Conditions _____

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Well/Sample Number BGS-05-013104

QC Sample ID _____

Purge Start Time 15:04

Purge Method: _____

Dec. Pump _____

Flow Cell: Y / N Instrument Serial Number: _____

Purge Rate (ppm) (mLpm) 5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
NO	15:00	5 gpm	7.05	1.11	13.21	13.9	
port	15:08	10 gpm	7.27	1.10	13.63	13.8	
	15:10	15 gpm	7.16	1.11	14.03	13.5	
	15:12	20 gpm	7.23	1.11	14.35	13.2	
		40 gal.					

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling?	+/ - 0.1 pH units	+/ - 5% Conductivity	+/ - 0.5 mg/L Diss. Oxygen	NA
	Y	Y	Y	NA

Sample Time 15:14 Sample Location: _____

Comments: _____

Initial Depth to Water (ft BTOC): _____ Measure Point: _____

WD (Well Depth - from table) ft btoc: _____

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study **Sampling Event** 1Q06
 Job Number 328060.BS.WS.00 Date 02-01-06
 Field Team _____ Page _____ of _____

Well/Sample Number BGS-18-~~000~~ **QC Sample ID** _____ **QC Sample Time** _____
 Purge Start Time 10:09 Purge Method: _____ Ded. Pump _____
 Flow Cell: Y / N Instrument Serial Number: _____ Min. Purge Volume (gal/t) _____ Purge Rate (gpm)/(mlpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	10:24	10 gal	6.67	1.85	8.72	20.9	15 min between turn on cycles
	10:38		7.04	1.81	7.87	20.9	72 min
	10:40		7.48	1.75	7.85		
	10:54		7.51	1.70	8.39	21.5	Well Depth 120'
	10:56	100 gal	7.57	1.60	8.30	21.8	Water Level 100'
							PS 119'

Parameter Stabilization Criteria:
 Did Parameters Stabilize prior to sampling? pump tubing _____ well port _____ other _____
 Sample Time 10:58 Sample Location: _____
 Comments: 510:58

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
 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 PG&E Hinkley Background Study Sampling Event 1006
 Job Number 328060 BS.WS.00 Date 02-01-06
 Field Team _____ Page _____ of _____
 Field Conditions _____

Well/Sample Number BGS04_020106 GC Sample ID _____
 Purge Start Time 12:52 Purge Method: _____ Ded. Pump _____
 Flow Cell: Y / N Instrument Serial Number: _____ Min. Purge Volume (gal/L) _____ Purge Rate (gpm) (mL/min) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp °C	Comments (See descriptors below)
95.21	12:54	6 gpm	8.47	520	9.57	21.6	
94.02	12:56	12 gpm	8.09	501	9.59	21.8	
95.17	12:58	18 gpm	8.02	500	9.56	21.8	
94.92	13:00	24 gpm	7.97	498	9.33	21.9	
94.51							

Parameter Stabilization Criteria:
 +/- 0.1 pH units
 +/- 5% Conductivity
 +/- 0.5 mg/L Diss. Oxygen
 NA Temp

Did Parameters Stabilize prior to sampling? Y
 Sample Location: pump tubing well port spigot
 Sample Time 13:02
 Comments: water other

Initial Depth to Water (ft BIOC): 94.91
 WD (Well Depth - from table) ft btoc:
 Color: clear, grey, yellow, brown, black, cloudy, green
 Odor: none, sulphur, organic, other
 Solids: Trace, Small Gt, Med Gt, Large Gt, Particulate, Silf, Sand
 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Bruce Tech Field Conditions Sunny

Sampling Event IQ06

Date 2-2-06

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Well/Sample Number BGS-24-020306

QC Sample ID BGS-24-020306EB QC Sample Time 1030

Purge Start Time 0953

Purge Method: 2" gravel Ded. Pump

Flow Cell Y / N Instrument Serial Number: 05F1258 AL Min. Purge Volume (gal)(L) 20 gal Purge Rate (gpm)/(ml.pm)

Water Level	Time	Vol. Purged (gals) / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
<u>56.65</u>	<u>0957</u>	<u>4</u>	<u>7.51</u>	<u>398</u>	<u>8.93</u>	<u>17.59</u>	<u>TD - 120.8</u>
<u>56.62</u>	<u>1001</u>	<u>8</u>	<u>7.49</u>	<u>398</u>	<u>8.97</u>	<u>17.79</u>	
<u>56.62</u>	<u>1005</u>	<u>12</u>	<u>7.51</u>	<u>398</u>	<u>8.90</u>	<u>17.82</u>	
<u>56.67</u>	<u>1009</u>	<u>16</u>	<u>7.52</u>	<u>397</u>	<u>8.90</u>	<u>17.80</u>	
<u>56.67</u>	<u>1013</u>	<u>20</u>	<u>7.51</u>	<u>397</u>	<u>8.90</u>	<u>17.80</u>	

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA

Dia Parameters Stabilize prior to sampling? Yes Yes Yes

Sample Time 1015 Sample Location: well port pump tubing well port bailer other spigot

Comments:

Initial Depth to Water (ft BTOC): 56.60 Measure Point: Well TOC Steel Coiling WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btoc: _____

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 PG&E Hinkley Background Study **Sampling Event** 1G06
 Job Number 328060.BS.WS.00
Date 2/2/06
 Field Team Blair Tech Field Conditions Sunny Page 1 of 1

Well/Sample Number BGS-35-33-020206 **QC Sample ID** _____ **QC Sample Time** _____
Purge Start Time 1135 **Purge Method**: 2 6x30/165 **Dec. Pump** _____
Flow Cell / N **Instrument Serial Number**: 05F12580ALMin. **Purge Volume** 20 **Purge Rate** 1 (ml/min)

Water Level	Time	Vol. Purged (liters)	pH	Conductivity	Diss. Oxygen (mg/L)	Temp. (°C)	Comments (See descriptions below)
81.52	1117	4	7.16	1416	5.05	20.67	TD = 95.65'
81.47	1121	8	7.16	1415	4.78	20.72	
81.44	1125	12	7.13	1415	4.75	20.73	
81.57	1129	16	7.11	1415	4.79	20.74	
81.59	1133	20	7.11	1415	4.81	20.74	

Parameter Stabilization Criteria:
 +/- 0.1 pH units
 +/- 5% Conductivity
 +/- 0.5 mg/L Diss. Oxygen

Did Parameters Stabilize prior to sampling?
Sample Time 1135 **Sample Location:** _____ **Measure Point:** _____
 _____ **Well TOC** _____ **Steel Casing** _____ **WATER LEVEL METER SERIAL NUMBER:** _____
 _____ **baier** _____ **other** _____ **Solids:** Tracc, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Initial Depth to Water (ft BTOC): 81.55'
WD (Well Depth - from table) ft btoc: _____
Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other

Comments: _____

Project Name PG&E Hinkley Background Study Sampling Event 1006
 Job Number 328060.BS.WS.00 Date 2-2-96
 Field Team _____ Page _____ of _____
 Field Conditions cloudy/windy/2's sun

Well/Sample Number BGS-27-02P206 QC Sample ID _____
 Purge Start Time 1347 Ded. Pump _____
 Flow Cell: Y / N Instrument Serial Number: _____ Purge Rate (gpm)/(ml/pm) 5
 Purge Method: _____

Time	Vol. Purged gallons / litres	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
1348	5	6.99	1.91	10.62	19.4	
1350	15	7.02	1.91	10.43	19.3	
1352	25	7.10	1.91	10.24	19.2	
1354	35	7.11	1.91	10.16	19.1	
1356	45	7.11	1.92	10.06	19.1	

Parameter Stabilization Criteria: +/- 0.1 pH units Y +/- 5% Y +/- 0.5 mg/L Y NA
 D/d Parameters Stabilize prior to sampling? Y Y Y NA

Sample Time 1358 Sample Location: pump tubing well port sp. gr. _____
 Comments: 1400 bailey _____ other _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
 Color: clear grey, yellow, brown, black, cloudy, green **Odor**: none sulphur, organic, other **Solids**: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Quarter 2 2006

Project Name PG&E Hinkley Background Study **Sampling Event #** 2006
 Job Number 328060.BS.WS.00 **Date** 07/24/06
 Field Team KE / WG Field Conditions SMY Page of

Well/Sample Number BGS-23-042406 **QC Sample ID** MW-90-942406 **1020**
Purge Start Time 0930 **Purge Method:** Spigot **Ded. Pump** not used
Flow Cell: Y / N **Instrument Serial Number:** C101911 **Min. Purge Volume (gal/L)** 3
Purge Rate (gpm)/(mlpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/m	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
—	0941	15	7.81	48.9	5.38	21.8	
—	0946	30	7.83	48.9	5.20	22.0	
—	0951	45	7.84	48.9	5.44	22.0	
—	0954	54	7.84	48.9	5.10	22.2	
—	0957	63	7.84	48.9	4.66	22.2	
—	1000	72	7.84	48.6	4.93	22.2	

Parameter Stabilization Criteria:

±0.1 pH units	±5% Conductivity	+/- 0.5 mg/L Diss. Oxygen	NA
Y	Y	Y	NA

Did Parameters Stabilize prior to sampling? Y
 Sample Time 1003 Sample Location: pump tubing well port spigot Y other
 Comments:

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing Water Level Meter Serial Number:
 WD (Well Depth - from table) ft btoc:
 Color clear grey, yellow, brown, black, cloudy, green **Odor:** none sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Sil, Sand

Project Name PG&E Hinkley Background Study Sampling Event 2 Q06
 Job Number 328060.BS.WS.00 Date 04/24/06
 Field Team KE + D6 Page or
 Field Conditions

Well/Sample Number 665-18-042406 QC Sample ID GC Sample Time
 Purge Start Time 1104 Purge Method: soi got Ded. Pump
 Flow Cell: Y Instrument Serial Number: 0101911 Min. Purge Volume (gal/L) Purge Rate (gpm) (ml/pm) 4

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity S/m	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
160.85	1107	12	7.00	0.129	7.51	22.9	
160.83	1112	32	7.64	0.117	7.10	22.8	
155.75	1117	52	7.65	0.117	6.45	23.1	
155.75	1120	72	7.65	0.117	6.04	22.2	
158.36	1122	72	7.65	0.112	6.75	22.8	
159.88	1125	84	7.64	0.113	6.49	22.9	

Parameter Stabilization Criteria:
 Did Parameters Stabilize prior to sampling? +/- 0.1 pH units +/- 5% Conductivity +/- 0.5 mg/L Diss. Oxygen NA
 Y Y Y

Sample Time 1130 Sample Location: pump tubing well port 2 boiler other
 Comments: splice

Initial Depth to Water (ft BTOC): 160.85 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 WD (Well Depth - from table) ft BTOC: Odor: none sulphur organic other Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand
 Color: clear grey, yellow, brown, black, cloudy, green

Project Name PG&E Hinkley Background Study Sampling Event # 606-2906
 Job Number 328060.BS.WS.00 Date 4.25.06
 Field Team RJ/WG Field Conditions Sunny Page of

Well/Sample Number BGS.A.042506 GC Sample ID GC Sample Time
 Purge Start Time 11:09 Purge Method: SP1 457 Ded. Pump
 Flow Cell: Y / N Instrument Serial Number: C101911 Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mlpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity μm	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	11:11	4991	7.43	0.211	6.98	22.5	
	11:14	10991	7.40	0.209	6.95	22.0	
	11:17	16991	7.39	0.210	6.70	22.2	
	11:20	22991	7.40	0.210	6.35	22.3	
	11:23	28991	7.39	0.210	8.60	22.4	
	11:30	42991	7.39	0.210	6.43	22.4	
	11:34	50991	7.39	0.214	6.31	22.5	
	11:37	50991	7.40	0.215	6.40	22.6	

Parameter Stabilization Criteria:
 +/- 0.1 pH units Y +/- 5% Y +/- 0.5 mg/L NA
 Did Parameters Stabilize prior to sampling?
 Sample Time 11:40 Sample Location: well port pump tubing well port boiler other
 Comments:

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 WD (Well Depth - from table) ft btoc: Odor: None sulphur, organic, other Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand
 Color: clear grey, yellow, brown, black, cloudy, green

Handwritten notes:
 7.04 / 5 / 1.002 / 602
 35

Project Name PG&E Hinkley Background Study

Sampling Event # 667-2-09-6

Job Number 328060.BS.WS.00

Date 04/25/04

Field Team KRWG Field Conditions Sunny

Well/Sample Number BGS-18-042500 QC Sample ID _____

QC Sample Time _____

Purge Start Time 11:52 Purge Method: spigot Ded. Pump _____

Flow Cell: Y / N Instrument Serial Number: C101911 Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(ml/min) _____

Water Level	Time	Vol. Purged (gallons / liters)	pH	Conductivity (µm)	Diss. Oxygen (mg/L)	Temp. (°C)	Comments (See descriptors below)
	11:54	0 gals	7.70	0.170	7.15	24.0	
	11:57	15 gals	7.74	0.168	7.16	23.7	
	12:01	25 gals	7.72	0.175	7.55	23.5	
	12:01	27 gals	7.73	0.173	7.49	23.7	
	12:08	48 gals	7.67	0.168	7.63	23.5	
	N/A	63					

Parameter Stabilization Criteria:

±0.1 pH units	± 5%	± 0.5 mg/L	NA
Y	Y	Y	NA

Did Parameters Stabilize prior to sampling? _____

Sample Time 12:15 Sample Location: pump tubing _____ well port _____

Comments: _____

bailey _____ other _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Initial Depth to Water (ft BTOC): _____

WD (Well Depth - from table) ft bloc: _____

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 PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team W6 / BR Field Conditions SWAMP

Sampling Event 2006 2004

Date 4.25.06

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Well/Sample Number BGS-05-042506

QC Sample ID GC Sample Time

Purge Start Time 14:33

Ded. Pump

Flow Cell: Y / N Instrument Serial Number:

Purge Rate (gpm)/(mlbm)

Purge Method: Spigot

Min. Purge Volume (gal)/(L)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	14:21	6.9 gal	8.32	12.67	8.47	20.34	
	14:23	12.6 gal	8.05	12.60	6.85	20.76	
	14:25	16.9 gal	8.02	12.63	5.90	20.89	
	14:30	24 gal	8.01	12.61	5.54	20.92	

Parameter Stabilization Criteria:

± 0.1 pH units

± 5% Diss. Oxygen

± 0.5 mg/L

NA

NA

Y

Y

Y

X

Did Parameters Stabilize prior to sampling?

Sample Time 14:33

Sample Location:

well port

Comments:

Initial Depth to Water (ft BTOC):

WD (Well Depth - from table) ft btoc:

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Measure Point:

Well TOC

Steel Casing

Water Level Meter Serial Number:

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team KE 1 JM Field Conditions DRY

Sampling Event 15206 7 00 6

Date 4-28-06

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Well/Sample Number BGS-22-092506

Purge Start Time 14:41

Flow Cell: Y / N Instrument Serial Number: C101911

QC Sample ID

Purge Method: SPIJET

Min. Purge Volume (gal)/(L)

QC Sample Time

Ded. Pump

Purge Rate (gpm)/(ml/min)

Water Level	Time	Vol. Purged (gallons) / liters	pH	Conductivity	Diss. Oxygen (mg/L)	Temp. (°C)	Comments (See descriptors below)
	14:42		6.11	MSM			
	14:45	8 gals	7.86	37.1	8.06	22.2	
7.45	14:48	10.5	7.53	38.4	8.32	21.7	
	14:51	20	7.44	38.3	7.42	21.4	
	14:54	26	7.42	38.3	7.76	21.4	
	14:57	32	7.45	38.3	7.60	21.6	

Parameter Stabilization Criteria:	+/- 0.1 pH units	+/- 5% Conductivity	+/- 0.5 mg/L Diss. Oxygen	NA
Did Parameters Stabilize prior to sampling?	Y	Y	Y	NA

Sample Time 14:59 Sample Location: well port _____ well port _____ boiler _____ other _____
 Comments: _____

Initial Depth to Water (ft BTWC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
 Color: red grey, yellow, brown, black, cloudy, green Odor: ms sulphur, organic, other Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study Sampling Event 1000 2906
 Job Number 328060.BS.WS.00 Date 04/25/06
 Field Team NG / BK Field Conditions 50207 Page ___ of ___
 Well/Sample Number B6S-27-042500 QC Sample ID _____ QC Sample Time _____
 Purge Start Time 15:12 Purge Method: Spir jet Ded. Pump _____
 Flow Cell: Y / N Instrument Serial Number: 451425 Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(ml/min) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	15:15	1099l	8.01	17.06	6.03	20.83	
	15:18	1299l	8.00	17.13	5.87	20.93	
	15:21	1899l	7.97	17.24	5.79	20.90	

Parameter Stabilization Criteria:					
± 0.1 pH units	Y	± 5%	Y	± 0.5 mg/L	NA
Did Parameters Stabilize prior to sampling?	Y				NA

Sample Time 15:23 Sample Location: _____ well port _____ boiler _____ other _____
 Comments: _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____ Odor: none sulphur, organic, other Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand
 Color: clear grey, yellow, brown, black, cloudy, green

Project Name W-15-04-25-A **Sampling Event** 4/25/00
Job Number 06841986-1 **Date** 4/25/00
Field Team B-E. Blandford **Page** of
Field Conditions

Well/Sample Number W-15-04-25-A **Start Time** 0940
Initial Depth to Water 95.97 **Duplicate Number** **Dupl. Time**
Measure Point: Well Steel Casing **Purge Method:** Pump Other
Flow Cell: / **Min. Purge Volume (gal)/(L)** 10.0 **Purge Rate (gpm)/(mLpm)** 0.80

Water Level	Time	Vol. Purged gallons / liters / ml	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity PPT	TDS g/L	En / ORP mv
95.76	0942	2	8.6	1412	9	6.97	20.44	0.71	0.483	-24.1
95.96	0944	4	8.6	1521	7	5.12	20.44	0.78	0.583	-29.3
95.96	0946	6	8.4	1530	7	5.78	20.26	0.88	0.883	-60.3
95.46	0948	8	8.8	1535	6	6.02	20.27	0.88	0.4.1	-57.3
95.96	0950	10	8.7	1536	6	6.04	20.28	0.89	0.911	-57.7

Sample Time 0957 **Sample Location:** pump tubing well port domestic spigot boiler Other
Remarks

Well/Sample Number W-12-01-25-02 **Start Time** 1024
Initial Depth to Water 93.42 **Duplicate Number** W-12-01-25-02 **Dupl. Time** 1040
Measure Point: Well Steel Casing **Purge Method:** Pump Other
Flow Cell: / **Min. Purge Volume (gal)/(L)** 5.5 **Purge Rate (gpm)/(mLpm)** 500

Water Level	Time	Vol. Purged gallons / liters / ml	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity PPT	TDS g/L	En / ORP mv
93.42	1026	1000	8.7	1796	6	7.0	20.42	0.71	0.002	1.9
93.43	1028	2000	8.6	1806	5	7.2	20.65	0.72	0.0012	11.6
93.43	1030	3000	8.6	1806	5	7.2	20.65	0.72	0.0012	11.8
93.43	1032	4000	8.5	1805	5	7.2	20.74	0.72	0.0012	15.3
93.43	1034	5000	8.5	1804	5	7.4	20.87	0.72	0.0012	16.7
93.43	1035	5500	8.5	1803	5	7.5	20.34	0.72	0.0012	20.0

Sample Time 1037 **Sample Location:** pump tubing well port domestic spigot boiler Other
Remarks

Well/Sample Number W-12-01-25-02 **Start Time** 1111
Initial Depth to Water 85.73 **Duplicate Number** **Dupl. Time**
Measure Point: Well Steel Casing **Purge Method:** Pump Other
Flow Cell: / **Min. Purge Volume (gal)/(L)** 5.0 **Purge Rate (gpm)/(mLpm)** 500

Water Level	Time	Vol. Purged gallons / liters / ml	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity PPT	TDS g/L	En / ORP mv
85.43	1117	1500	8.5	809	6	6.7	23.34	0.37	0.005	-23.5
85.43	1120	3000	8.6	988	6	5.8	23.33	0.37	0.005	-17.1
85.43	1123	4500	8.5	783	6	5.5	23.49	0.38	0.005	-11.0
85.43	1126	5000	8.5	782	5	5.3	23.60	0.38	0.005	-7.6

Sample Time 1128 **Sample Location:** pump tubing well port domestic spigot boiler Other
Remarks

Project Name PG&E Hinkley Background Study Sampling Event 2206
 Job Number 328060.BS.WS.00 Date 4-26-00
 Field Team F2/W6 Field Conditions Sunny Page ___ of ___
 Well/sample Number BGS-06-042606 QC Sample ID _____ QC Sample Time _____
 Purge Start Time 11:52 Purge Method: spiral Ded. Pump _____
 Flow Cell: Y / N Instrument Serial Number: C101911 Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mL/min) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	1154	6	5.94	49.5	130	20.7	
	1157	15	6.49	44.9	9.06	18.9	
	1200	24	6.82	44.2	9.43	18.7	
	1203	30.33	6.84	43.1	10.25	17.2	
	1206	42	6.84	43.5	9.30	16.9	
	1209	51	6.89	44.5	9.57	16.7	

Parameter Stabilization Criteria:
 +/- 0.1 pH units +/- 5% Conductivity +/- 0.5 mg/L Diss. Oxygen
 NA pH units NA Diss. Oxygen

Sample Time 12:11 Sample Location: pump tubing _____ well port _____
 Comments: _____

Initial Depth to Water (ft BTWC): _____ Measure Point: Well TOC _____ Steel Casing _____ WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft BTWC: _____
 Color Clear, grey, yellow, brown, black, cloudy, green Odor (none) sulphur, organic, other _____ Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand
 Initial Depth to Water (ft BTWC): _____ Measure Point: Well TOC _____ Steel Casing _____ WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft BTWC: _____
 Color Clear, grey, yellow, brown, black, cloudy, green Odor (none) sulphur, organic, other _____ Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

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Project Name PG&E Hinkley Background Study Sampling Event 066 2906
 Job Number 328060.BS.WS.00 Date 04/26/06
 Field Team KE / W6 Field Conditions 52009 Page 1 of 1

Well/Sample Number BGS-25-042606 QC Sample ID QC Sample Time
 Purge Start Time 12:39 Purge Method: Ded. Pump
 Flow Cell: Y / N Instrument Serial Number: C101911 Min. Purge Volume (gal)/(l) Purge Rate (gpm)/(mlpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity S / m	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	12:40	394	7.27	0.143	8.04	22.2	
	12:43	1299	7.23	0.146	7.91	21.4	
	12:46	2897	7.25	0.144	7.80	21.1	
	12:49	30 gals	7.17	0.147	7.68	21.1	

Parameter Stabilization Criteria:	+/- 0.1 pH units	+/- 5%	+/- 0.5 mg/L	NA
Did Parameters Stabilize prior to sampling?	y	y	y	NA

Sample Time 12:50 Sample Location: pump tubing well port spigot other
 Comments:

Initial Depth to Water (ft BTWC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 WD (Well Depth - from table) ft btoc:
 Color: clear grey, yellow, brown, black, cloudy, green Odor: none sulphur, organic, other Solids: Trace, Small Qs, Med Qs, Large Qs, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team KL / WG Field Conditions Sunny

Sampling Event 662906

Date 04/26/04

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Well/Sample Number BS-10-042604 QC Sample ID GC Sample Time
 Purge Start Time 13:14 Purge Method: Spigot Ded. Pump
 Flow Cell: Y / N Instrument Serial Number: C101941 Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(ml/min)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity μS/cm	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	104.51 13:18	12 gals	7.99	50.8	5.86	25.0	
	108.3 13:21	21 gals	7.85	51.0	6.07	24.9	
	108.4 13:24	30 gals	7.82	50.7	6.52	24.6	
	107.6 13:27	39 gals	7.75	50.8	6.54	24.5	

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling? Y +/- 0.1 pH units Y +/- 5% Y +/- 0.5 mg/L Y NA NA

Sample Time 13:30 Sample Location: pump tubing well port spigot X boiler other

Initial Depth to Water (ft BTOC): 104.51 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

WD (Well Depth - from table) ft btoc:

Color (deg.) grey, yellow, brown, black, cloudy, green Odor (none) sulphur, organic, other Solids: Trace, Small Gt, Med Gt, Large Gt, Particulate, Silt, Sand

Comments:

Project Name PG&E Hinkley Background Study Sampling Event 1006 2906
 Job Number 328060.BS.WS.00 Date 4-26-06
 Field Team EE/WG Page of

Well/Sample Number BGS-15-042600 QC Sample ID QC Sample Time
 Purge Start Time 13:47 Purge Method: SP30T Ded. Pump
 Flow Cell: Y / N Instrument Serial Number: 6101911 Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mlpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	13:51	16991	7.96	92.3	7.46	22.6	
	13:54	38991	7.87	93.1	6.87	22.3	
	13:57	40991	7.86	90.8	8.99	22.0	
	14:01	56991	7.86	90.6	9.03	22.2	
	14:04	68991	7.87	90.6	6.83	22.4	
	14:07	70991	7.87	93.9	6.83	22.5	

Parameter Stabilization Criteria:
 +/- 0.1 pH units Y +/- 5% Y +/- 0.5 mg/L NA
 Did Parameters Stabilize prior to sampling? Y
 Sample Time 14:08 Sample Location: pump tubing well port bailer other
 Comments: 14:09

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 WD (Well Depth - from table) ft btoc: Odor: none Sulphur, organic, other Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand
 Color: clear grey, yellow, brown, black, cloudy, green

Project Name PG&E Hinkley Background Study **Sampling Event** 1406
 Job Number 328060.BS.WS.00 Date 4-26-06
 Field Team W6 / K5 Page 1 of 1

Well/Sample Number 865-01-042606 QC Sample ID MW-91-042606 1433
 Purge Start Time 14:19 Purge Method: spigot Ded. Pump 14:35
 Flow Cell: Y / N Instrument Serial Number: C101911 Min. Purge Volume (gal)/(L) MS/MSD
 Purge Rate (gpm)/(ml/pm) 14:15

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity ms/cm	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	14:22	12.99	7.98	56.4	7.05	24.2	
	14:25	21.99	8.01	55.9	6.86	24.2	
	14:28	30.99	7.98	55.9	6.86	24.4	
	14:31	39.99	7.97	55.9	6.81	24.1	

Parameter Stabilization Criteria: +/- 0.1 pH units Y +/- 5% Y +/- 0.5 mg/L Y NA
 Did Parameters Stabilize prior to sampling? Y NA

Sample Time 1435 Sample Location: _____ well port _____ pump tubing _____ well port _____ spigot _____ other _____
 Comments: _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC _____ Steel Casing _____ WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____ Odor: none sulphur, organic, other _____ Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand
 Color: clear grey, yellow, brown, black, cloudy, green

Project Name W204 Sampling Event 4/26/06
 Job Number 04026B-1 Date 4/26/06
 Field Team DK-Blair/ah Page 1 of 1
 Field Conditions Scam

Well/Sample Number PMW-3-24-26-06 Start Time 0947
 Initial Depth to Water 82.00 Duplicate Number Dupl. Time
 Measure Point: Well Steel Casing Purge Method: Ded. Other
 Flow Cell: / N Min. Purge Volume [gal]/(L) 10 Purge Rate (gpm)/(ml/min) 1

Water Level	Time	Vol. Purged gallons / liters / ml	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity PPT	TDS g/L	Eh / ORP mv
80.00	0859	2	7.2	1020	5	5.90	21.72	0.50	0.0007	136.3
80.00	0857	4	7.2	1005	5	5.73	21.68	0.50	0.0007	135.6
80.00	0853	6	7.2	1019	5	5.75	21.65	0.51	0.0007	135.1
80.00	0855	8	7.2	1040	5	5.81	21.68	0.52	0.0007	134.7
80.00	0857	10	7.1	1055	5	5.84	21.71	0.53	0.0007	133.6

Sample Time 0900 Sample Location: pump tubing well port domestic spigot boiler Other
 Remarks

Well/Sample Number MW-28B-04-26-06 Start Time 1241
 Initial Depth to Water 84.05 Duplicate Number Dupl. Time
 Measure Point: Well Steel Casing Purge Method: Ded. Other
 Flow Cell: / N Min. Purge Volume [gal]/(L) 4 Purge Rate (gpm)/(ml/min) 500

Water Level	Time	Vol. Purged gallons / liters / ml	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity PPT	TDS g/L	Eh / ORP mv
84.05	1243	1000	6.02	1794	14	6.46	21.35	0.91	0.0002	67.9
84.05	1245	2000	7.91	1810	6	7.60	21.29	0.92	0.0002	54.1
84.05	1247	3000	7.38	1821	6	7.82	21.24	0.92	0.0002	49.3
84.05	1249	4000	7.80	1810	6	8.33	21.20	0.92	0.0002	47.6

Sample Time 1251 Sample Location: pump tubing well port domestic spigot boiler Other
 Remarks

Well/Sample Number MW-08-04-26-06 Start Time 1305
 Initial Depth to Water 94.85 Duplicate Number Dupl. Time
 Measure Point: Well Steel Casing Purge Method: Ded. Other
 Flow Cell: / N Min. Purge Volume [gal]/(L) 4.0 Purge Rate (gpm)/(ml/min) 500

Water Level	Time	Vol. Purged gallons / liters / ml	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity PPT	TDS g/L	Eh / ORP mv
94.85	1309	1000	6.76	1214	5	6.68	21.55	0.60	0.0008	33.5
94.85	1311	2000	7.72	1221	2	5.60	21.62	0.61	0.0008	32.7
94.85	1313	3000	7.63	1247	2	4.95	21.60	0.62	0.0008	32.1
94.85	1315	4000	7.58	1254	2	4.63	21.56	0.63	0.0008	31.2
94.85	1317	5000	7.57	1262	2	4.41	21.56	0.63	0.0008	30.4

Sample Time 1317 Sample Location: pump tubing well port domestic spigot boiler Other

Project Name PG&E Hinkley Groundwater Sampling

Sampling Event

Date _____

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Field Team _____

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Field Conditions _____

Well / Station ID **B65-24-34-26-06** Start Time: **1110**
 Initial Depth to Water **50.61** Purge Method: **Diaphragm** Other temporary pump _____
 Measure Point: Well **30** (PVC) Pump Type Grundfos RF-2
 Flow Cell: **N** Min. Purge Volume **716** or **945** units: **gals**

Time HEMML (24-ht)	DYW feet below MP	Vol. Purged gallons or ml	Purge Rate gpm or ml/min	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity PPT	TDS g/L	ORP mv
1113	50.61	12	4	8.21	316	25	0.90	17.77	0.15	0.0002	29.0
1116	50.62	24	4	8.21	316	20	0.92	17.92	0.15	0.0002	25.2
1119	50.62	36	4	8.19	316	20	0.96	17.37	0.15	0.0002	21.4
1121	50.62	48	4	8.10	316	20	0.97	17.39	0.15	0.0002	18.3
1124	50.62	60	4	8.06	517	20	0.98	17.36	0.15	0.0002	16.4

Sample ID **B65-24-01-26-06** Sample Appearance / Remarks **5 case volumes @ 4.0 gpc per ml per tank or stable.**
 Sampling Location _____ Sample Time **1125**
 Field QC Samples _____

Project Name PG&E Hinkley Groundwater Sampling

Sampling Event 4/26/06

Job Number 060426B2-1

Date 4/26/06

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Field Conditions

Well / Station ID B6 S-24-04-26-06

Start Time: 11:24

Initial Depth to Water

50.02

Purge Method: Ded. Pump

Pump Type Grundfos RF-2

Measure Point: Well Top (PVC) Steel Casing / MP

Flow Cell: D / N

Min. Purge Volume 50.02 units: gals

Time HH:MM (24-hr)	DTW feet below MP	Vol. Purged gallons or ml	Purge Rate gpm or ml/min	pH	Conductivity µS/cm	Turbidity NTU	Diss. Oxygen mg/l	Temp. °C	Salinity PPT	TDS g/L	ORP mv
11:27	50.02	12	4	7.72	387	2.0	8.02	17.32	0.18	0.0002	14.4
11:30	50.67	24	4	7.70	385	2.0	8.21	17.39	0.17	0.0003	16.8
11:33	50.62	36	4	7.71	385	2.0	8.15	17.37	0.19	0.0002	17.3
11:36	50.62	48	4	7.73	384	2.0	8.14	17.37	0.19	0.0002	17.5
11:39	50.62	60	4	7.76	385	2.0	8.18	17.35	0.19	0.0003	17.8

Sampling Location

Sample Appearance / Remarks 5 Lab Volume & 4.0 gals of fill water.

Sample ID B6 S-24-110-042606

Sample Time 11:40

Field QC Samples

Project Name PG&E Hinkley Groundwater Sampling

Sampling Event 4/20/06

Job Number 260426 R-1

Date 4/20/06

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Field Conditions Sunny

Well / Station ID BCS-347026-01 **Start Time:** 11:11

Initial Depth to Water 50.42 **Purge Method:** Ded Pump **Other:** temporary pump

Measure Point: Well ID (PVC) **Pump Type** Grundfos RF-2

Flow Cell: D / N **Min. Purge Volume** 36.6L **units:** gal

Time (MM)	DIV (feet below MP)	Vol. Purged (gallons or ml)	Purge Rate (gpm or ml/min)	pH	Conductivity (uS/cm)	Turbidity (NTU)	Diss. Oxygen (mg/L)	Temp. (°C)	Salinity (PPT)	IDS (g/L)	ORP (mv)
1144	50.65	18	4	7.81	335	19	8.18	17.40	0.19	0.003	15.7
1147	50.62	24	4	7.81	387	19	8.27	17.26	0.19	0.003	15.4
1150	50.62	36	4	7.95	388	19	8.36	17.37	0.19	0.003	11.8
1153	50.62	48	4	8.04	350	19	8.47	17.71	0.19	0.002	8.4
1156	50.42	60	4	8.04	370	19	8.74	17.42	0.19	0.002	7.0

Sampling Location 1 **Sample Appearance / Remarks** 8 min volume @ 4.0 gpm or 4.0 gals

Sample ID BCS-34-150-047606 **Sample Time** 11:58

Field QC Samples

Project Name PG&E Hinkley Background Study Sampling Event 1006 2906
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Well/Sample Number BGS-13-042706 QC Sample ID QC Sample Time
 Purge Start Time 1121 Purge Method: Ded. Pump
 Flow Cell: Y / N Instrument Serial Number: 101911 Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(ml/min) 5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. $^{\circ}C$	Comments (See descriptors below)
61.61	1123	10	7.58	11.0	7.88	18.7	
68.12	1126	25	7.58	98.4	8.13	18.4	
63.08	1129	40	7.23	98.7	8.46	18.3	
63.03	1132	55	7.09	98.7	8.07	18.2	
—	1135	70	6.98	98.9	7.69	18.3	
62.94	1138	85	6.97	98.4	7.76	18.3	
61.65	1141	100	6.98	96.6	8.02	18.5	

Parameter Stabilization Criteria:	+/- 0.1 pH units	+/- 5%	+/- 0.5 mg/L	NA
	Did Parameters Stabilize prior to sampling?	Y	Y	NA

Sample Time 1145 Sample Location: pump tubing well port spigot 7
 Comments: boiler other

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 WD (Well Depth - from table) ft btoc: Odor: note sulphur, organic, other Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand
 Color: clear, grey, yellow, brown, black, cloudy, green

Project Name PG&E Hinkley Background Study Sampling Event 186 2906

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Well/Sample Number 36-01-085-09796 QC Sample ID KAB13 QC Sample Time

Purge Start Time Purge Method: KAB13 Ded. Pump

Flow Cell: Y Instrument Serial Number: Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity S/m	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
79.2	1227	2 L	8.73	0.109	11.26	25.5	

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA NA

Did Parameters Stabilize prior to sampling?

Sample Time 1227 Sample Location: pump tubing well port spigot other

Comments:

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 WD (Well Depth - from table) ft btoc:
 Color: Clear grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study
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 Field Team KE / JM Field Conditions Sunny
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Well/Sample Number 36-01-090-092706
 Purge Start Time
 Flow Cell: Y (N) Instrument Serial Number: C101911 Min. Purge Volume (gal)/(L)
 QC Sample ID
 Purge Method: KABLS
 Ded. Pump
 Purge Rate (gpm)/(mlpm)
 GC Sample Time

Water Level	Time	Vol. Purged (gallons) (liters)	pH	Conductivity S/m	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	12:47	2	8.52	116	11.09	21.2	

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling?	+/- 0.1 pH units	+/- 5%	+/- 0.5 mg/L	NA
				NA

Sample Time 12:47 Sample Location: pump tubing well port spot
 Comments: boiler other

Initial Depth to Water (ft BTWC):
 WD (Well Depth - from table) ft btoc:
 Color: Clear, grey, yellow, brown, black, cloudy, green
 Odor: none sulphur, organic, other
 Solids: Trace, Small Gu, Large Gu, Particulate, Silt, Sand
 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 Initial Depth to Water (ft BTWC):

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 Field Team KEEJA Field Conditions Sunny

Sampling Event 1686 2906
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Well/Sample Number 36-01-095-04270 QC Sample ID GC Sample Time
 Purge Start Time Purge Method: KAB15 Ded. Pump
 Flow Cell: Y N Instrument Serial Number: MIn. Purge Volume (gal/L) Purge Rate (gpm)/(ml/pm)

Water Level	Time	Vol. Purged gallons (liters)	pH	Conductivity S/m	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	13:10	2	7.98	129	10.49	20.8	

Parameter Stabilization Criteria:	+/- 0.1 pH units	+/- 5%	+/- 0.5 mg/L	NA
	Did Parameters Stabilize prior to sampling?			NA

Sample Time 13:10 Sample Location: pump/tubing well port spigot boiler other
 Comments:

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 WD (Well Depth - from table) ft btoc:
 Color: clear, grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: Trace, Small Gu, Large Gu, Particulate, Silt, Sand

Quarter 3 2006

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team: EL/Linderman field conditions hot

Sampling Event 3906

Date 07-24-06

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Well/Sample Number D6E-01-072406 **QC Sample ID** **QC Sample Time**

Purge Start Time 0912 **Purge Method:** Spigot **Ded. Pump**

Flow Cell: Y / **Instrument Serial Number:** BT **Min. Purge Volume (gal/L)** n/a **Purge Rate (gpm)/(ml/pm)** 4

Water Level	Time	Vol. Purged (gallons) / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen (mg/L)	Temp. °C	Comments (See descriptors below)
<u>n/a</u>	<u>0912</u>	<u>BT</u>					
	<u>0915</u>	<u>12</u>	<u>7.39</u>	<u>442</u>	<u>102.1</u>	<u>19.83</u>	<u>water level meter broken, will replace</u>
	<u>0918</u>	<u>24</u>	<u>7.37</u>	<u>441</u>	<u>9.38</u>	<u>19.11</u>	
	<u>0921</u>	<u>36</u>	<u>7.46</u>	<u>445</u>	<u>9.58</u>	<u>18.59</u>	
	<u>0924</u>	<u>48</u>	<u>7.48</u>	<u>444</u>	<u>9.31</u>	<u>18.76</u>	
	<u>0927</u>	<u>60</u>	<u>7.52</u>	<u>442</u>	<u>9.63</u>	<u>18.69</u>	

Parameter Stabilization Criteria:
 +/- 0.1 pH units +/- 5% mg/L +/- 0.5 mg/L NA NA

Ded Parameters Stabilize prior to sampling?
 Y Y Y NA NA

Sample Time 0928 **Sample Location:** well port pump tubing spigot boiler other

Comments:

Initial Depth to Water (ft BTOC): n/a **Measure Point:** Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: n/a

WD (Well Depth - from table) ft btoc: n/a

Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none sulphur, organic, other **Solids:** Trace, Small Gr, Med Gr, Large Gr, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Sampling Event 3606

Job Number 328060.BS.WS.00

Date 07-24-06

Field Team Bel/Linderman Field Conditions sunny, hot

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Well/Sample Number BGS-09-072406 EC Sample ID MW-90-01204 EC Sample Time 1015

Purge Start Time 1006 Purge Method spigot Ded. Pump

Flow Cell: Y (N) Instrument Serial Number: BT Min. Purge Volume (gal)/(L) n/a Purge Rate (gpm) (mlpm) 4

Water Level	Time	Vol. Purged (gallons) (liters)	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
n/a	1010	16	7.62	393	8.64	17.32	Rope down gauging port, cannot fit gauge
n/a	1013	28	7.56	391	8.68	16.74	
n/a	1015	30	7.59	393	n/a	n/a	
n/a	1017	44	7.58	393	8.61	16.87	
n/a	1020	56	7.60	391	8.73	16.93	

Parameter Stabilization Criteria:	+/- 0.1 pH units	+/- 5% mg/L	+/- 0.5 mg/L	NA
Did Parameters Stabilize prior to sampling?	Y	Y	Y	NA

Sample Time 1025 Sample Location: well port well port pump tubing boiler other spigot

Comments: _____

Initial Depth to Water (ft BTC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: n/a

WD (Well Depth - from table) ft btoc: _____

Color: clear, grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Eld / Linda / ... Field Conditions _____

Sampling Event 3606

Date 07-24-06

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Well/Sample Number BGS-06-072406

EC Sample ID N/A

EC Sample Time _____

Purge Start Time 1041

Purge Method: SP, gdt

Ded. Pump _____

Flow Cell: Y N Instrument Serial Number: BT

Mfn. Purge Volume (gal)/(L) N/A

Purge Rate (gpm)/(mlpm) 4

Water Level	Time	Vol. Purged (gallons) / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
<u>58.00</u>	<u>1042</u>	<u>4</u>	<u>7.50</u>	<u>572</u>	<u>9.14</u>	<u>18.18</u>	
<u>57.99</u>	<u>1045</u>	<u>10</u>	<u>7.49</u>	<u>569</u>	<u>8.15</u>	<u>18.20</u>	
<u>57.99</u>	<u>1048</u>	<u>28</u>	<u>7.51</u>	<u>568</u>	<u>8.45</u>	<u>18.03</u>	
<u>58.01</u>	<u>1050</u>	<u>40</u>	<u>7.54</u>	<u>570</u>	<u>8.37</u>	<u>17.01</u>	
<u>58.01</u>	<u>1052</u>	<u>52</u>	<u>7.57</u>	<u>560</u>	<u>8.46</u>	<u>17.16</u>	

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling? Y

Sample Time 1055 Sample Location: _____

_____ pump tubing _____ well port _____

_____ spigot

_____ boiler _____ other _____

Comments: _____

Initial Depth to Water (ft BTWC): _____

WD (Well Depth - from table) ft btoc: _____

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic; other

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: # 86

Project Name PG&E Hinkley Background Study

Sampling Event 3906

Job Number 328060.BS.WS.00

Date 07-24-06

Field Team Eli / Lindsay Field Conditions HOT

Page of

Well/Sample Number BGS-22-072406

QC Sample ID n/A QC Sample Time

Purge Start Time 1137

Purge Method: SPISOT Ded. Pump

Flow Cell: Y / N Instrument Serial Number: BT

Min. Purge Volume (gal)/(L) n/A Purge Rate (gpm) (mlpm) 1.5

Water Level	Time	Vol. Purged (gallons) / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
70.96	1138	1.5	7.86	405	3.50	31.52	-potential to divert to well 04.26 DTW
74.35	1141	6.0	7.91	401	3.62	31.65	TD > 100', 1 1/2 - 2" opening,
71.05	1144	10.5	7.87	399	3.33	29.68	potential to open further
71.61	1147	15.0	7.91	400	3.85	30.21	hit @ 103.44'
71.03	1150	19.6	7.91	400	3.89	29.84	

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling? Y

NA NA reach w this well NA NA

Sample Time 1155 Sample Location: pump tubing well port spigot other

baller other

Comments:

Initial Depth to Water (ft BTOC):

WD (Well Depth - from table) ft btoc:

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Color: clear/grey, yellow, brown, black, cloudy, green

solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Sulphur, organic, other

Project Name **PG&E Hinkley Background Study** Sampling Event **3006**
 Job Number **328060.BS.WS.00** Date **7-25-06**
 Field Team **Ed / Linda / Mark** Field Conditions **Hot** Page ___ of ___
 Well/Sample Number **BGS-13.072506** QC Sample ID **N/A** QC Sample Time **N/A**
 Purge Start Time **0750** Purge Method: Ded. Pump
 Flow Cell: Y / **N** Instrument Serial Number: **BT** Min. Purge Volume (gal)/(L) **N/A** Purge Rate (gpm)/(mL.prm) **9**

Water Level	Time	Vol. Purged (gallons) / liters	pH	Conductivity $\mu\text{S/cm}$	Diss. Oxygen mg/L	Temp. $^{\circ}\text{C}$	Comments (See descriptors below)
	0751	4	7.22	917	10.67	18.83	
	0753	12	7.19	909	9.61	18.43	
	0755	24	7.23	910	9.20	18.57	
	0757	32	7.20	913	9.70	18.30	
	0759	40	7.21	909	9.55	18.38	

Parameter Stabilization Criteria: +/- 0.1 pH units
 +/- 5% Conductivity +/- 0.5 mg/L Diss. Oxygen
 NA Temp.

Did Parameters Stabilize prior to sampling? **Y**

Sample Time **0800** Sample Location: _____ well port _____ pump tubing _____ boiler _____ other _____
 Comments: _____

Initial Depth to Water (ft BTWC): **64.68** Measure Point: Well TOC Steel Casing Water Level Meter SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
 Color **clear** grey, yellow, brown, black, cloudy green **cloudy** Odor **none** sulphur, organic, other Solids: Trace, Small Cu, Med Cu, Large Cu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Sampling Event 3606

Job Number 328060.BS.WS.00

Date 7-25-06

Field Team Sel / Lindner Field Conditions MT

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Well/Sample Number B65-01-072506

QC Sample ID N/A QC Sample Time

Purge Start Time 0900

Purge Method: SP-521 Dedi. Pump

Flow Cell: Y Instrument Serial Number: B7

Min. Purge Volume (gal/L) N/A Purge Rate (gpm)/(mlpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
103.55	0902	6	7.70	862	3.10	25.84	
105.15	0904	12	7.67	943	3.46	23.49	
109.79	0906	18	7.71	857	3.05	23.57	
105.51	0908	24	7.68	932	3.20	23.31	
109.12	0914	42	7.70	864	2.51	23.50	
109.85	0917	51	7.75	904	2.59	23.30	
104.00	0919	57	7.71	877	2.57	23.37	

Parameter Stabilization Criteria:

+/-.0.1 pH units	+/-. 5%	+/-. 0.5 mg/L	NA
Y	Y	Y	NA

Did Parameters Stabilize prior to sampling?

Sample Time 0920 Sample Location: pump tubing _____ well port _____ spigot Y boiler _____ other _____

Initial Depth to Water (ft BTOC): _____

WD (Well Depth - from table) ft btoc: _____

Color Clear, grey, yellow, brown, black, cloudy, green

Odor (none), sulphur, organic, other

Measure Point: Well TOC

Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Ebel/Linderma/Field Conditions 1/24

Sampling Event 3G06

Date 07-26-06

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Well/Sample Number BGS-23-072506

Purge Start Time 0946

Flow Cell: Y / N Instrument Serial Number: BT

QC Sample ID 0935

Purge Method: split

Min. Purge Volume (gal)/(L) 3.5

MW-91-072506

Ded. Pump

Purge Rate (gpm) (mlpm)

0935

BGS-23-072506-MS

BGS-23-072506-MSD

Water Level	Time	Vel. Purged (gallons)/liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
107.09	0948	7.0	7.83	493	5.51	25.18	
113.85	0950	14.0	7.81	490	5.56	24.13	
111.55	0952	21.0	7.82	487	5.56	24.14	
110.24	0954	28.0	7.82	489	5.59	24.57	
108.91	0956	35.0	7.84	487	5.62	24.50	

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling? Y

Sample Time 1000 Sample Location: spigot well port spigot pump tubing spigot other spigot

Comments:

Initial Depth to Water (ft BTOC):

WD (Well Depth - from table) ft btoc: Well TOC

Measure Point: Well TOC

Steel Casing WATER LEVEL METER SERIAL NUMBER:

Color: clear, grey, yellow, brown, black, cloudy, green

Odor: none, sulphur, organic, other

Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study Sampling Event 3Q06
 Job Number 328060.BS.WS.00 Date 07-25-06
 Field Team Ebel/Lindner Field Conditions _____ Page _____ of _____

Well/Sample Number B65-18-072506 QC Sample ID N/A QC Sample Time _____
 Purge Start Time # 1202 Purge Method: Spigot Ded. Pump _____
 Flow Cell: Y Instrument Serial Number: BT Min. Purge Volume (gal)/(L) N/A Purge Rate (gpm)/(mlpm) 2.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity μS	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
N/A	1203	2.5	7.99	1590	4.36	24.99	
N/A	1205	7.5	7.87	1390	1.73	23.15	
N/A	1211	12.5	7.82	1433	4.33	23.78	
N/A	1213	17.5	7.77	1473	6.63	23.41	
N/A	1215	22.5	7.70	1477	8.23	23.37	

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA NA
 Did Parameters Stabilize prior to sampling? Y Y
 Sample Location: 1218 pump tubing _____ well port _____ spigot Y boiler _____ other _____
 Comments: _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft bitoc: _____
 Color: clear, grey, yellow, brown, black, cloudy, green Other none sulphur, organic, other Solids: Trace, Small Cu, Med Cu, Large Cu, Particulate, Silt, Sand

Do not start stability erratic pumping

Project Name PG&E Hinkley Background Study

Job Number 328060.E5.WS.00

Date 7-25-06

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Field Team Ebel / Lin / [unclear] Field Conditions best

Sampling Event 3606

Well/Sample Number BGS-19-072506

QC Sample ID _____

Purge Start Time ~~12:02~~ 12:36 **Purge Method:** SPI 501 **Ded. Pump** _____ **QC Sample Time** _____

Flow Cell: Y (N) **Instrument Serial Number:** BT **Min. Purge Volume (gal)/(L)** N/A **Purge Rate (gpm)/(mlpm)** 2.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity µS/cm	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
N/A	12:02	0					
N/A	12:38	5	7.48	1800	7.54	24.44	
N/A	12:40	10	7.39	1821	6.46	23.43	
N/A	12:42	15	7.39	1843	6.14	23.17	
N/A	12:44	20	7.39	1852	6.12	23.21	
N/A	12:46	25	7.48	1851	6.24	23.39	

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA NA

Did Parameters Stabilize prior to sampling? Y Y Y

Sample Time 12:48 Sample Location: _____ pump tubing _____ well port _____ spigot _____

Comments: _____

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

Initial Depth to Water (ft BTWC): _____

WD (Well Depth - from table) ft btoc: _____

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 PG&E Hinkley Background Study

Job Number 328060.BS.WS.00
 Date 7-25-00
 Page 1 of 1
 Field Team Hel/Andy me Field Conditions Hot

Sampling Event 3906

Well/Sample Number B65-04-072506 GC Sample ID 1MW-92-072506
 Purge Start Time 1300 Purge Method: SP Ded. Pump
 Flow Cell: Y / N Instrument Serial Number: Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(Lpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
94.87	1302	6	7.93	573	5.13	26.65	
94.90	1305	15	7.98	556	6.67	26.94	
94.91	1307	21	7.96	559	6.00	26.98	
95.42	1310	27	7.94	560	6.18	26.42	
94.86	1312	33	7.96	557	6.30	26.42	

Parameter Stabilization Criteria:
 +/- 0.1 pH units
 +/- 5% mg/L
 +/- 0.5 mg/L

Did Parameters Stabilize prior to sampling? Y
 Sample Location: well port pump tubing well port spigot well port other well port
 Comments:

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft bitoc: _____
 Color: clear, grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: Trace, Small Qc, Med Qc, Large Qc, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team EBB / Lindner Field Conditions Hot

Sampling Event 3606

Date 7-25-06

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Well/Sample Number BGS-15-072506

QC Sample ID

QC Sample Time

Purge Start Time 1340

Purge Method: Spigot Ded. Pump

Flow Cell: Y Instrument Serial Number: BT

Purge Rate (gpm) 4 (ml/pm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
<u>99.39</u>	<u>1342</u>	<u>8</u>	<u>7.92</u>	<u>MS</u>	<u>5.42</u>	<u>32.04</u>	
<u>98.50</u>	<u>1344</u>	<u>16</u>	<u>7.88</u>	<u>938</u>	<u>5.30</u>	<u>31.90</u>	
<u>98.15</u>	<u>1346</u>	<u>24</u>	<u>7.89</u>	<u>935</u>	<u>5.13</u>	<u>30.90</u>	
<u>97.64</u>	<u>1348</u>	<u>32</u>	<u>7.92</u>	<u>936</u>	<u>5.10</u>	<u>30.95</u>	
<u>101.70</u>	<u>1350</u>	<u>40</u>	<u>7.85</u>	<u>943</u>	<u>5.05</u>	<u>30.85</u>	

Parameter Stabilization Criteria: +/- 0.1 pH units Y Y Y Y Y

Did Parameters Stabilize prior to sampling? Y Y Y Y Y

Sample Time 1352 Sample Location: pump tubing well port solgel boiler other

Comments:

Initial Depth to Water (ft BTOC): Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:
 WD (Well Depth - from table) ft btoc:
 Color: Clear grey, yellow, brown, black, cloudy, green Odor: none sulphur, organic, other Solids: Trace, Small Qu, Large Qu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Ed / Gabe Field Conditions _____

Sampling Event 3006

Date 7-26-06

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Well/Sample Number BGS-28-072606

QC Sample ID N1A

QC Sample Time _____

Purge Start Time 803

Purge Method: spiga Ded. Pump _____

Flow Cell: Y / N Instrument Serial Number: 101849 Min. Purge Volume (gal)/(L) N/A Purge Rate (gpm)/(Lpm) 32

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
N/A	0805	4	6.32	0.67	7.94	25.3	- need sample NLM to record data
N/A	0807	8	6.77	0.60	8.08	24.5	
N/A	0809	12	6.95	0.59	8.10	24.4	
N/A	0811	16	7.09	0.59	8.09	24.6	
N/A	0813	20	7.25	0.59	7.91	24.7	
N/A	0815	24	7.30	0.58	7.78	24.2	
N/A	0818	28	7.46	0.58	8.02	23.9	
N/A	0820	32	7.51	0.58	8.32	23.8	
N/A	0822	36	7.55	0.58	8.46	23.9	

Lucy R. Lux

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling?

Sample Time 0824 Sample Location: _____ well port _____ spigot boiler _____ other _____

Initial Depth to Water (ft BfOC): _____

WD (Well Depth - from table) ft bfoc: _____

Color: clear, grey, yellow, brown, black, cloudy, green Odor/nons sulphur, organic; other _____ Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

Measure Point: Well TOC _____ Steel Casing _____ WATER LEVEL METER SERIAL NUMBER: _____

Project Name PG-8E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Ebel / Gsbb Field Conditions hot

Sampling Event 3006

Date 7-26-06

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Well/Sample Number B65-29-072606

QC Sample ID

Purge Start Time 0847

Purge Method: Spot

Ded. Pump

Flow Cell: Y / Instrument Serial Number: 101899

Min. Purge Volume (gal)/(L) N/A

Purge Rate (gpm) (ml/min) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
92.41	0845	2	7.66	0.49	8.34	23.1	
93.75	0847	6	7.62	0.48	8.26	22.7	
93.65	0849	10	7.61	0.48	8.14	22.6	
92.09	0851	14	7.62	0.49	8.07	22.5	
94.85	0853	18	7.64	0.48	8.37	22.7	
							Mary Jureg

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling?	+/- 0.1 pH units	+/- 5% mg/L	+/- 0.5 mg/L	NA
	Y	Y	Y	NA

Sample Time 0855 Sample Location: pump tubing well port spot

Comments:

Initial Depth to Water (ft BTOC):

WD (Well Depth - from table) ft btoC:

Color: clear, grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER:

Project Name PG&E Hinkley Background Study **Sampling Event** 3606
 Job Number 328060.BS.WS.00 **Date** 07-26-06
 Field Team SKL / GBL Field Conditions Hot Page ___ of ___

Well/Sample Number B65-10-072606 **QC Sample ID** n/A **QC Sample Time** _____
Purge Start Time 0911 **Purge Method:** SPI 901 **Ded. Pump** _____
Flow Cell: Y / N **Instrument Serial Number:** 101999 **Min. Purge Volume (gal)/(L)** n/A **Purge Rate (gpm) (ml/pm)** 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity mS/cm	Diss. Oxygen mg/L	Temp. $^{\circ}C$	Comments (See descriptors below)
11.95	0913	4	7.83	0.45	6.56	25.0	
	0915	8	7.74	0.44	4.71	24.7	
107.01	0917	12	7.72	0.44	5.20	24.8	
111.60	0919	16	7.71	0.44	5.01	24.8	
108.65	0921	20	7.72	0.44	5.22	24.8	

Parameter Stabilization Criteria:
 +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA

Did Parameters Stabilize prior to sampling? Y Y Y NA

Sample Time 0923 **Sample Location:** _____ **well port** _____ **spout** **batter** _____ **other** _____

Initial Depth to Water (ft BTOC): _____ **Measure Point:** Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____

Color: Clear, grey, yellow, brown, black, cloudy, green **Odor:** none sulphur, organic, other **Solids:** Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Comments: _____

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Else / Gabb
Field Conditions HOT

Sampling Event 3606

Date 7-26-06

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Well/Sample Number BGS-27-072606
Purge Start Time 1010
Flow Cell: Y / N **Instrument Serial Number:** 101899 **Min. Purge Volume (gal)(L)** 9.1 **Purge Rate (gpm)(mlpm)** 2.5
Purge Method: SPURGE **QC Sample ID** 7/A **Dec. Pump** **QC Sample Time**

Water Level	Time	Vol. Purged (gallons)(liters)	pH	Conductivity (µS/cm)	Diss. Oxygen (mg/L)	Temp. (°C)	Comments (See descriptors below)
64.18	1012	2.5	7.24	1.7	8.81	23.0	
65.23	1014	5.0	7.06	1.6	8.72	21.2	
65.19	1016	7.5	7.00	1.6	8.83	20.4	
—	1018	10.0	6.99	1.6	8.89	20.3	
65.18	1020	12.5	7.08	1.6	9.24	20.2	

Parameter Stabilization Criteria:
 +/- 0.1 pH units
 +/- 5% conductivity
 +/- 0.5 mg/L Diss. Oxygen
 NA Temp.

Sample Time 1022 **Sample Location:** pump/tubing well port **bailler** other
Comments:

Initial Depth to Water (ft BTOC):
WD (Well Depth - from table) ft btoc:
Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Q, Med Q, Large Q, Particulate, Silt, Sand

Measure Point: Well TOC **Steel Casing** **WATER LEVEL METER SERIAL NUMBER:**

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team 361/626 Field Conditions 1501

Sampling Event 3606

Date 7-26-06

Page ___ of ___

Well/Sample Number B65-14-072600

QC Sample ID _____

QC Sample Time _____

Purge Start Time 1234

Purge Method: _____ Ded. Pump _____

Flow Cell: Instrument Serial Number: 101884

Min. Purge Volume (gal)/(L) 4 1A

Purge Rate 60 (mlpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
102.39	1238	8	7.69	0.58	2.30	36.0	
102.57	1240	12	7.68	0.55	1.94	34.9	
—	1242	16	7.70	0.54	2.80	33.9	
103.61	1244	20	7.67	0.53	1.97	33.1	
—	1248	28	7.68	0.52	2.26	32.1	
102.52	1250	32	7.68	0.52	2.36	31.6	

Parameter Stabilization Criteria:	± 0.1 pH units	$\pm 5\%$	± 0.5 mg/L	NA
	Did Parameters Stabilize prior to sampling?	Y	Y	NA

Sample Time 1252 Sample Location: _____ pump tubing _____ well port _____ spigot _____ boiler _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btoc: _____

Color: clear grey, yellow, brown, black, cloudy, green **Odor:** none sulphur, organic, other **Solids:** Trace, Small Cu, Med Cu, Large Cu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Bob/Gabe Field Conditions WOT

Sampling Event 3606

Date 7-26-06

Page ___ of ___

Well/Sample Number 665-25-072606 QC Sample ID 01A QC Sample Time _____

Purge Start Time 1316 Purge Method: _____ Ded. Pump _____

Flow Cell: Y / N Instrument Serial Number: 101889 Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(Lpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu\text{S}/\text{cm}$	Diss. Oxygen mg/L	Temp. $^{\circ}\text{C}$	Comments (See descriptors below)
67.61	1318	4	7.38	1.4	7.51	25.0	
67.92	1320	8	7.17	1.4	7.44	23.5	
67.65	1322	12	7.14	1.4	7.19	23.8	
-	1324	16	7.14	1.4	7.42	23.0	
67.89	1326	20	7.14	1.4	7.46	23.0	

Parameter Stabilization Criteria:	+/- 0.1 pH units	+/- 5% mg/L	+/- 0.5 mg/L	NA

Sample Time 1328 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: _____
 WD (Well Depth - from table) ft btoc: _____
 Color: clear, grey, yellow, brown, black, cloudy, green cloudy green Odor: none, sulphur, organic, other none Solids: Trace, Small Qu, Med Qu, Large Qu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Ebel / Gsbl Field Conditions HR

Sampling Event 3606

Date 7-26-06

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Well/Sample Number BGS-30-072606

QC Sample ID MW-9A

Purge Method: SP

Ded. Pump 1400

Purge Start Time 1352

Flow Cell: Y / N Instrument Serial Number: _____

Purge Rate (gpm) (ml/pm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. $^{\circ}C$	Comments (See descriptors below)
n/a	1356	8	8.10	0.74	7.69	25.9	
n/a	1358	12	8.0	0.71	7.73	24.9	
n/a	1401	18	8.099	0.70	7.79	23.6	
n/a	1403	2022	7.94	0.69	7.95	23.6	
n/a	1405	2126	7.92	0.70	7.95	23.7	
							<u>Efram Ortiz</u>

Parameter Stabilization Criteria:	+/- 0.1 pH units	+/- 5% mg/L	+/- 0.5 mg/L	NA
Did Parameters Stabilize prior to sampling?	Y	Y	Y	NA

Sample Time 1407 Sample Location: _____ pump tubing _____ well port _____ spigot X SD
 Comments: _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC _____ Steel Casing _____ WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
 Color: clear grey, yellow, brown, black, cloudy, green Odo: none, sulphur, organic, other Solids: Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study **Sampling Event** 3906

Job Number 328060.BS.WS.00 Date 7-26-06
 Field Team Edel / Gable / Hof Page 1 of 2

Well/Sample Number B65-31-072606 **QC Sample ID** n/a **QC Sample Time** _____
Purge Start Time 1426 **Purge Method:** SP451 **Ded. Pump** _____
Flow Cell: Y **Instrument Serial Number:** 101889 **Min. Purge Volume (gal)/(L)** n/a **Purge Rate (gpm)/(mlpm)** 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Diss. Oxygen mg/L	Temp. $^{\circ}C$	Comments (See descriptors below)
84.62	1428	4	8.03	0.62	6.41	33.8	
84.6	1430	8	8.13	0.52	7.60	24.8	
—	1432	12	8.07	0.50	8.40	23.5	
84.02	1434	16	7.99	0.49	6.21	23.2	JAMIP water
83.79	1436	20	7.92	0.53	6.76	27.3	
83.75	1438	24	7.95	0.54	7.22	25.6	
	1440	28	7.98	0.55	6.83	28.8	

Parameter Stabilization Criteria:

Did Parameters Stabilize prior to sampling?	+	-	NA
pH units	+/- 0.1	+/- 5%	+/- 0.5 mg/L
	Y	Y	Y

Sample Time 1442 Sample Location: _____ pump/tubing _____ well port _____ spigot _____ boiler _____ other _____

Comments: _____

Initial Depth to Water (ft BTOC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
 WD (Well Depth - from table) ft btoc: _____
Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Sampling Event 3Q06

Job Number 328060.BS.WS.00

Date 07-27-06

Field Team Ed / Linda / Bob

Page _____ of _____

Well/Sample Number BGS-24-072706

QC Sample ID _____

QC Sample Time _____

Purge Start Time 0811

Purge Method Gr Ind f00

Ded. Pump _____

Flow Cell: Y (N) **Instrument Serial Number:** BT

Min. Purge Volume (gal/L) N/A

Purge Rate (gpm)/(mlpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity µS/cm	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
52.30	0813	4	7.40	369	9.89	17.76	
52.31	0815	8	7.47	369	10.12	17.90	
52.31	0817	12	7.51	369	10.22	17.82	
52.31	0819	16	7.53	369	10.31	17.82	
52.32	0821	20	7.56	369	10.45	17.82	

Parameter Stabilization Criteria:	+/- 0.1 pH units		+/- 5% Conductivity		+/- 0.5 mg/L Diss. Oxygen		NA Temp.	
	Y	Y	Y	Y	Y	Y	NA	NA
Did Parameters Stabilize prior to sampling?	Y	Y	Y	Y	Y	Y	NA	NA

Sample Time 0824 **Sample Location:** TD2 115.05 **well port:** _____ **baller:** _____ **other:** _____

Comments: _____

Initial Depth to Water (ft BTOC): _____ **Measure Point:** Well TOC **Steel Casing** _____ **WATER LEVEL METER SERIAL NUMBER:** _____

WD (Well Depth - from table) ft bitoc: _____

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 PG&E Hinkley Background Study **Sampling Event** 3906
 Job Number 328060.BS.WS.00 Date 01/27/00
 Field Team WSP Field Conditions _____ Page ___ of _____

Well/Sample Number 27-03 **GC Sample ID** _____ **GC Sample Time** _____
 Purge Start Time _____ **Purge Method:** _____ **Ded. Pump** _____
Flow Cell: Y / N **Instrument Serial Number:** _____ **Min. Purge Volume (gal)/L** _____ **Purge Rate (gpm)/(mLpm)** _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
101.45	8:29	2399					
	8:31	4999	6.39	0.87	8.82	23.6	
102.18	8:34	10999	6.89	0.79	8.66	22.9	
102.19	8:37	16999	7.06	0.78	8.72	22.7	
102.19	8:40	22999	7.28	0.78	8.67	22.6	
100.99	8:43	28999	7.34	0.78	8.59	22.7	
	8:46	34999					

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA NA
 Did Parameters Stabilize prior to sampling? _____

Sample Time 8:46 Sample Location: _____ pump tubing _____ well port _____ spigot _____ baller _____ other _____
 Comments: _____

Initial Depth to Water (ft BTOC): _____ **Measure Point:** Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____
WD (Well Depth - from table) ft bitoc: _____

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 PG&E Hinkey Background Study
Job Number 328060.BS.WS.00
Field Team UJD Field Conditions

Sampling Event 3506
Date 07/27/06
 Page ____ of ____

Well/Sample Number 30-25 **QC Sample ID** _____
Purge Start Time _____ **Ded. Pump** _____ **QC Sample Time** _____
Flow Cell: Y / N _____ **Instrument Serial Number:** _____ **Purge Method:** _____ **Purge Rate (gpm)/(mLpm)** _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	70.15	2.97	7.20	2.1	5.24	24.4	
	69.85	4.91	7.17	2.0	5.38	24.0	
	68.51	6.91	7.19	8.5	5.56	24.0	
	68.93	8.91	7.19	2.0	5.55	24.0	
	69.70	10.91	7.18	2.0	5.45	23.9	
Parameter Stabilization Criteria:			+/- 0.1 pH units	+/- 5%	+/- 0.5 mg/L	NA	
Did Parameters Stabilize prior to sampling?						NA	

Sample Time 9:35 **Sample Location:** pump tubing well port spigot boiler other
Comments: _____

Initial Depth to Water (ft BTOC): _____ **Measure Point:** Well TOC Steel Casing **WATER LEVEL METER SERIAL NUMBER:** _____
WD (Well Depth - from table) ft BTOC: _____
Color: clear, grey, yellow, brown, black, cloudy, green **Odor:** none, sulphur, organic, other **Solids:** Trace, Small Q, Med Q, Large Q, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team Kate Logan

Field Conditions Sunny/90°F

Sampling Event 3006

Date 7/27/06

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Well/Sample Number MW-35-072706 QC Sample ID GC Sample Time

Purge Start Time 0953 Purge Method: Temp Pump Ded. Pump

Flow Cell ① N Instrument Serial Number: BTS # 6 Min. Purge Volume (gal/L) Purge Rate (mLpm) 3

Water Level	Time	Vol. Purged (liters)	pH	Conductivity	Diss. Oxygen (mg/L)	Temp. (°C)	Comments (See descriptors below)
	<u>77.62</u>	<u>6</u>	<u>7.00</u>	<u>1710</u>	<u>7.83</u>	<u>19.46</u>	
	<u>77.64</u>	<u>12</u>	<u>6.99</u>	<u>1711</u>	<u>6.36</u>	<u>19.52</u>	
	<u>77.64</u>	<u>18</u>	<u>6.99</u>	<u>1711</u>	<u>6.32</u>	<u>19.51</u>	
	<u>77.64</u>	<u>24</u>	<u>6.99</u>	<u>1712</u>	<u>6.24</u>	<u>19.52</u>	
	<u>77.64</u>	<u>30</u>	<u>6.98</u>	<u>1712</u>	<u>6.19</u>	<u>19.50</u>	
Parameter Stabilization Criteria:							
+/- 0.1 pH units		+/- 5%		+/- 0.5 mg/L		NA	
Did Parameters Stabilize prior to sampling?		LL		LL		NA	

Sample Time 1006 Sample Location: well port sigot bailer other

Comments: Equipment Blank ID: MW-35-072706-EB @ 1030

Initial Depth to Water (ft BIOC): 77.12 Measure Point: WellID Steel Casing WATER LEVEL METER SERIAL NUMBER: 36286

WD (Well Depth - from table) ft btoc: 120.15

Color clear grey, yellow, brown, black, cloudy, green Odor none sulphur, organic, other Solids trace small cu, Med Cu, Large cu, Particulate, Silt, Sand

Project Name PG&E Hinkley Background Study

Job Number 328060.BS.WS.00

Field Team _____

Field Conditions _____

Sampling Event 3606

Date 07/27/06

Page ____ of ____

Well/Sample Number 01.06

GC Sample ID _____

QC Sample Time _____

Purge Start Time 10:18

Purge Method: _____

Ded. Pump _____

Flow Cell: Y / N Instrument Serial Number: _____

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
<u>56.94</u>	<u>10:18</u>	<u>2.99</u>	<u>8.51</u>	<u>0.36</u>	<u>9.37</u>	<u>21.4</u>	
	<u>10:21</u>	<u>6.99</u>	<u>8.27</u>	<u>0.33</u>	<u>9.91</u>	<u>18.9</u>	
<u>56.95</u>	<u>10:23</u>	<u>10.69</u>	<u>8.04</u>	<u>0.33</u>	<u>9.62</u>	<u>19.2</u>	
	<u>10:25</u>	<u>14.99</u>	<u>8.03</u>	<u>0.33</u>	<u>9.66</u>	<u>18.9</u>	
	<u>10:27</u>	<u>18.99</u>	<u>7.99</u>	<u>0.32</u>	<u>9.61</u>	<u>19.0</u>	

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA NA

Did Parameters Stabilize prior to sampling? _____

Sample Time 10:32 Sample Location: _____ pump tubing _____ well port _____ spigot _____ bailer _____ other _____

Comments: _____

Initial Depth to Water (ft BTWC): _____ Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: _____

WD (Well Depth - from table) ft btoc: _____

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 PG&E Hinkley Background Study Sampling Event 3G06
 Job Number 928060.BS.WS.00 Date 7/27/06
 Field Team Logan L. Field Conditions Sunny / 105°F Page 1 of 1

Well/Sample Number MW-06_072706 QC Sample ID MW-93 QC Sample Time 1240
 Purge Start Time 1228 Purge Method: RED Ded. Pump
 Flow Cell: 01 Instrument Serial Number: BTS #6 Min. Purge Volume (gal)/(l) 500 Purge Rate (gpm)/(lpm)

Water Level	Time	Vol. Purged gallons (liters)	pH	Conductivity	Diss. Oxygen mg/L	Temp. °C	Comments (See descriptors below)
	91.13	2	7.00	1710	6.89	21.23	
	91.13	4	6.99	1707	6.84	21.05	
	91.12	6	7.00	1703	6.59	20.87	
	91.13	8	7.00	1695	6.35	20.84	
	91.12	10	7.01	1687	6.33	20.81	

Parameter Stabilization Criteria: +/- 0.1 pH units +/- 5% +/- 0.5 mg/L NA NA
 Did Parameters Stabilize prior to sampling? LL U U U NA NA
 Sample Time 1253 Sample Location: pumping well port spigot boiler other
 Comments: Duplicate ID: MW-93_072706 @ 1240

Initial Depth to Water (ft BTOC): 71.09 Measure Point: Well TOC Steel Casing WATER LEVEL METER SERIAL NUMBER: 36286
 WD (Well Depth - from table) ft btoc: N/A
 Color: clear, grey, yellow, brown, black, cloudy, green Odor: none, sulphur, organic, other Solids: trace, Small Gu, Med Gu, Large Gu, Particulate, Silt, Sand

Project Name Background study
 Job Number 349775.01.WS.01
 Field Team WJH, JM
 Field Conditions nice 75°

Sampling Event _____
 Date 09/26/06
 Meter Serial No. 100883
 Page 1 of 3

Well/Sample Number BGS-29 Start Time 9:21
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y/N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
	9:23	4 gal	8.49	0.458	-0.8	8.51	22.13		0.298	124
	9:25	8 gal	7.68	0.433	0.7	8.08	22.05		0.281	132
	9:27	12 gal	7.72	0.430	-0.6	7.88	21.93		0.279	135
	9:29	16 gal	7.76	0.427	1.0	7.65	21.83		0.278	138

Sample Time 9:31 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number Smith-1-092606 Start Time 9:50
 Initial Depth to Water _____ Duplicate Number MW-90-092606 Dupl. Time 10:08
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y/N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
	9:52	4 g	7.95	0.704	8.6	7.48	22.38		0.489	129
	9:54	8 g	7.92	0.700	7.3	7.19	23.24		0.490	128
	9:56	12 g	8.03	0.700	2.9	6.98	23.93		0.490	116
	9:58	16 g	8.03	0.770	13.4	6.95	24.02		0.492	111

Sample Time 10:00 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number Vencil-1-092606 Start Time 10:19
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y/N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
	10:21	4 g	7.88	1.39	1.3	6.81	24.97		0.89	118
	10:23	8 g	7.88	1.40	2.6	7.23	23.11		0.90	117
	10:25	12 g	7.92	1.40	3.9	7.16	22.76		0.90	118
	10:27	16 g	7.97	1.37	0.5	7.03	22.76		0.89	108

Sample Time 10:29 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Project Name Background study
 Job Number 349775-01-WS-01
 Field Team WJD + JM
 Field Conditions NCE

Sampling Event _____
 Date 09/26/06
 Meter Serial No. 100883
 Page 2 of 3

Well/Sample Number McConnell-1-092606 Start Time 10:45
 Initial Depth to Water _____ BGS-34 Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv
	10:47	4g	8.13	0.509	2.2	6.05	26.09		0.326	94
	10:49	8g	8.11	0.512	3.9	6.01	25.03		0.328	85
	10:51	12g	8.04	0.516	0.8	6.11	25.10		0.329	95
	10:53	16g	8.11	0.513	0.6	5.95	25.19		0.329	88

Sample Time 10:55 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number Tindell-1-09/2606 Start Time 11:08
 Initial Depth to Water _____ BGS-35 Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv
	11:10	4g	8.03	0.585	-0.3	7.60	26.38		0.378	97
	11:12	8g	8.01	0.588	-2.2	6.94	25.99		0.377	95
	11:14	12g	8.00	0.589	-4.0	6.97	24.98		0.381	94
	11:16	16g	8.03	0.588	-1.7	6.85	24.73		0.379	94

Sample Time 11:18 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number Cruz-1-092606 Start Time 11:27
 Initial Depth to Water _____ BGS-36 Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv
	11:29	3g	8.04	0.531	-5.6	7.36	27.22		0.340	101
	11:31	6g	8.02	0.530	-4.9	7.10	26.09		0.338	104
	11:33	9g	8.04	0.526	-4.1	7.07	25.71		0.337	105
	11:35	12g	7.99	0.526	-3.5	7.13	25.26		0.337	107

Sample Time 11:37 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Project Name Background Study
 Job Number 349775.01.WS.01
 Field Team WQ & JM
 Field Conditions rice

Sampling Event _____
 Date 09/26/06
 Meter Serial No. 100187
 Page 3 of 3

Well/Sample Number McCauley-1-092606 Start Time 11:48
 Initial Depth to Water _____ BGS-37 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
	11:50	4g	8.07	0.500	0.3	7.83	25.49		0.322	96
	11:52	8g	8.08	0.502	8.4	7.77	24.65		0.322	94
	11:54	12g	8.09	0.502	6.0	7.30	24.73		0.321	92
	11:56	16g	8.04	0.498	3.5	7.32	24.39		0.320	91

Sample Time 11:58 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number Royce-1 Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv

no access - gates locked - left voice message

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

PG: E Hinkley

Project Name Background Study Groundwater
Job Number _____
Field Team W.C. Justink
Field Conditions Sunny 80°

Sampling Event Background Study
Date 9-27-06
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Well/Sample Number Newnan-1-092706 Start Time 0930
Initial Depth to Water _____ BGS-38 Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing
Flow Cell: Y N
Purge Method: Ded. Pump Other _____
Min. Purge Volume (gal)/(l) _____ Purge Rate (gpm)/(mlpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/l	Temp. °C	Salinity %	TDS g/L	EH/ORP mv
	0935	2	7.41	0.642	0.642	8.87	24.97	0.03	0.416	92
			7.74	0.444	0.5	8.08				95

Sample Time 0935 Sample Location: pump tubing well port domestic spigot boiler Other _____
Remarks _____

Well/Sample Number Robbins-1-092706 Start Time 1002
Initial Depth to Water _____ BGS-39 Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing
Flow Cell: Y N
Purge Method: Ded. Pump Other _____
Min. Purge Volume (gal)/(l) _____ Purge Rate (gpm)/(mlpm) 1.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/l	Temp. °C	Salinity %	TDS g/L	EH/ORP mv
	1003	3	7.64	0.451	4.1	8.56	23.30	0.02	0.242	91
	1005	6	7.79	0.444	0.5	8.08	23.35	0.02	0.288	93
	1007	9	7.75	0.438	1.5	7.88	22.49	0.02	0.285	94

Sample Time 1010 Sample Location: pump tubing well port domestic spigot boiler Other _____
Remarks _____

Well/Sample Number Aguilera-1-092706 Start Time 1020
Initial Depth to Water _____ BGS-40 Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing
Flow Cell: Y N
Purge Method: Ded. Pump Other _____
Min. Purge Volume (gal)/(l) _____ Purge Rate (gpm)/(mlpm) 1.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH/ORP mv
	1022	3.0	7.90	0.421	1.5	7.82	24.22	0.02	0.273	79
	1024	6.0	7.84	0.420	3.9	7.78	23.48	0.02	0.273	77
	1026	9.0	7.82	0.420	1.8	7.79	23.30	0.02	0.272	79

Sample Time 1030 Sample Location: pump tubing well port domestic spigot boiler Other _____
Remarks _____

Project Name PG: E Groundwater Monitoring Hickey
 Job Number _____
 Field Team Justin K. W.C.
 Field Conditions Sunny 84°

Sampling Event Background study
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 Page 2 of 3

Well/Sample Number Williamson-Ar. 05-1-047706 Start Time 1042
 Initial Depth to Water _____ BGS-41 Duplicate Number MW-91-047706 Dupl. Time 1000
 Measure Point: Well TOC Steel Casing Purge Method: Diap. Pump Other _____
 Flow Cell N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mlpm) 1.5

Water Level	Time	Vol. Purged (gallons / liters)	pH	Conductivity (uS/cm)	Turbidity NTU	Diss. Oxygen (mg/L)	Temp. (°C)	Salinity (%)	TDS (g/L)	EH / ORP (mv)
	1044	3.0	7.72	0.877	0.2	7.23	28.09	0.04	0.560	111
	1046	6.0	7.71	0.870	0.9	7.41	27.02	0.04	0.557	116
	1048	8.0	7.71	0.865	1.1	7.65	26.26	0.04	0.555	114

Sample Time 1050 Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks MW-91-047706

Well/Sample Number Ailey-1-042706 Start Time 1250
 Initial Depth to Water _____ BGS-42 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Diap. Pump Other _____
 Flow Cell N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mlpm) 1.3

Water Level	Time	Vol. Purged (gallons / liters)	pH	Conductivity (uS/cm)	Turbidity NTU	Diss. Oxygen (mg/L)	Temp. (°C)	Salinity (%)	TDS (g/L)	EH / ORP (mv)
	1252	2.0	8.09	0.510	4.0	8.66	25.30	0.02	0.327	123
	1254	6.0	8.03	0.504	6.3	8.49	24.46	0.02	0.323	129
	1256	9.0	8.02	0.491	5.8	7.65	24.75	0.02	0.320	124

Sample Time 1300 Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks _____

Well/Sample Number Phabolt-1-042706 Start Time 1312
 Initial Depth to Water _____ BGS-31 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Diap. Pump Other _____
 Flow Cell N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mlpm) 1.5

Water Level	Time	Vol. Purged (gallons / liters)	pH	Conductivity (uS/cm)	Turbidity NTU	Diss. Oxygen (mg/L)	Temp. (°C)	Salinity (%)	TDS (g/L)	EH / ORP (mv)
	1314	3.0	8.00	0.508	3.2	7.96	26.22	0.02	0.325	125
	1316	6.0	7.99	0.508	2.1	7.71	26.19	0.02	0.325	122
	1318	9.0	7.98	0.506	2.0	7.89	26.02	0.02	0.325	128

Sample Time 1320 Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks _____

Project Name PGI Groundwater monitoring
 Job Number _____
 Field Team Justin & W.C.
 Field Conditions sun, 92°

Sampling Event Background study
 Date 9-27-00
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 Page 3 of 3

Well/Sample Number B65-30 Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Diad. Pump Other _____
 Flow Cell: Y / (N) Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	ER / ORP mv
		- unable to sample due to access issues -								
		- resident would not allow us to go onto property. Ephrem Ortiz -								

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number B65-28 Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Diad. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	ER / ORP mv
		- Vol. Felix -								
		- unable sample due to resident not present and aggressive dogs -								

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Diad. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	ER / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Project Name PG: E Hinkle - Groundwater
 Job Number _____
 Field Team Justin K. V.C.
 Field Conditions 9:20-9:00

Sampling Event Background Study
 Date 9-28-06
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 Page 1 of 3

Well/Sample Number Melendez-1-092806 Start Time 0919
 Initial Depth to Water _____ BGS-43 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Per Pump Other _____
 Flow Cell Y/N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1.5

Water Level	Time	Vol. Purged (gpm) / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %ppt	TDS g/L	EN/ORP mv
	0921	3.0	7.77	506	6	6.19	21.93	0.24	0.329	143
	0923	6.0	7.94	503	4	6.08	22.00	0.24	0.327	147
	0925	9.0	7.95	503	5	6.24	21.91	0.24	0.327	147

Sample Time 0925 Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks _____

Well/Sample Number Green-1-092806 Start Time 0934
 Initial Depth to Water _____ BGS-44 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Per Pump Other _____
 Flow Cell Y/N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1.5

Water Level	Time	Vol. Purged (gpm) / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %ppt	TDS g/L	EN/ORP mv
	0936	3	7.93	543	5	5.54	25.98	0.26	0.354	124
	0938	6	8.02	549	4	6.02	24.08	0.26	0.356	135
	0940	9	7.94	544	4	6.17	23.87	0.26	0.353	152

Sample Time 0940 Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks _____

Well/Sample Number Rogers-1-092806 Start Time 0955
 Initial Depth to Water _____ BGS-45 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Per Pump Other _____
 Flow Cell Y/N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1.5

Water Level	Time	Vol. Purged (gpm) / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %ppt	TDS g/L	EN/ORP mv
	0957	3.0	7.63	971	4	5.71	24.33	0.48	0.631	118
	0959	6.0	7.65	985	3	6.85	22.62	0.49	0.640	111
	1001	9.0	7.62	990	3	5.83	22.22	0.49	0.641	108

Sample Time 1005 Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks _____

Project Name 161 E Hankley Groundwater
 Job Number _____
 Field Team Justin K. / W. C.
 Field Conditions 5000, 83°

Sampling Event Background study
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Well/Sample Number Richards-1-092806 Start Time 1024
 Initial Depth to Water 1024 BGS-49 Duplicate Number MW-92-092806 Dupl. Time 1010
 Measure Point: Well TOC Steel Casings Purge Method: BGS Pump Other _____
 Flow Cell: (N) Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/l	Temp. °C	Salinity ‰	TDS g/l	EH/ORP mv
	1026	3.0	8.35	786	4	5.01	26.41	0.38	0.511	86
	1028	6.0	8.10	778	5	5.11	25.82	0.38	0.506	69
	1030	9.0	8.41	778	4	5.16	25.66	0.38	0.506	59

Sample Time 1030 Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks _____

Well/Sample Number Volatzer-1-092806 Start Time 1111
 Initial Depth to Water _____ BGS-48 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casings Purge Method: Dec. Pump Other _____
 Flow Cell: (N) Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 1.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/l	Temp. °C	Salinity ‰	TDS g/l	EH/ORP mv
	1113	3.0	8.83	478	5	1.09	30.78	0.23	0.311	-26
	1115	6.0	8.90	466	4	1.22	28.50	0.22	0.303	-24
	1117	9.0	8.82	467	4	1.31	27.81	0.22	0.303	-32

Sample Time 1120 Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks _____

Well/Sample Number Millis-1-092806 Start Time _____
 Initial Depth to Water _____ Millis-1 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casings Purge Method: Dec. Pump Other _____
 Flow Cell: Y (N) Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity ‰	TDS g/L	EH/ORP mv
		- gate locked -								
		- no samples taken -								
		NO ACCESS								

Sample Time _____ Sample Location: pump tubing well port domestic tap boiler Other _____
 Remarks _____

Project Name P6: E Groundwater Sampling
 Job Number _____
 Field Team Justin K. W.C.
 Field Conditions Sunny 90°

Sampling Event Background Stud.
 Date 9-28-06
 Meter Serial No. _____
 Page 3 of 3

Well/Sample Number Arredondo-1-092806 Start Time 1133
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing BGS-46 Purge Method: Direct Pump Other _____
 Flow Cell (Y) N Min. Purge Volume (gal)/(l) _____ Purge Rate (gpm)/(mlpm) 1.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv
	1135	3.0	7.93	399	4	4.71	24.46	0.19	0.261	-23
	1137	6.0	7.86	399	3	1.83	22.58	0.19	0.252	-26
	1139	9.0	7.83	397	3	1.92	22.30	0.19	0.259	-28

Sample Time 1140 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number Madico-1-092806 Start Time 1155
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing BGS-47 Purge Method: Direct Pump Other _____
 Flow Cell (Y) N Min. Purge Volume (gal)/(l) _____ Purge Rate (gpm)/(mlpm) 1.5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv
	1157	3	8.39	561	4	3.99	25.11	0.27	0.365	-3
	1159	6	8.52	564	3	4.00	24.13	0.27	0.366	-1
	1201	9	8.46	567	3	4.02	25.02	0.27	0.366	-10

Sample Time 1205 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Direct Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(l) _____ Purge Rate (gpm)/(mlpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Quarter 4 2006

Project Name _____
 Job Number 34977501-WS01
 Field Team WJH-JM
 Field Conditions _____

Sampling Event 40-06
 Date 10/23/06
 Meter Serial No. 050SK1408 AC
 Page 1 of 3

Well/Sample Number BGS01-102306

Start Time 9:57

Initial Depth to Water 95.61

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
95.59	9:59	4 g	7.79	16.62		6.32	20.78	.84	1.080	169.3
95.39	10.01	8 g	7.96	16.60		5.41	20.86	0.84	1.079	138.6
95.28	10.03	12 g	7.94	16.59		5.06	20.87	0.84	1.078	107.3
99.40	10.05	16 g	7.93	16.95		4.96	21.09	0.86	1.098	68.1
96.02	10.07	20 g	7.91	16.69		4.88	21.03	.84	1.084	57.2
95.61	10.09	24 g	7.91	16.61		4.80	21.03	.84	1.079	48.5
95.53	10.11	28 g	7.90	16.58		4.8	21.00	.84	1.078	43.5

Sample Time 10.12

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS04-102306

Start Time 10:36

Initial Depth to Water 95.93

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
95.99	10:38	4 g	8.01	8.82		5.33	24.40	.43	.573	40.7
95.23	10:40	8 g	8.05	8.86		6.	22.49	.44	.576	29.6
95.78	10:42	12 g	8.08	8.86		5.76	22.71	.44	.576	19.1
95.19	10:44	16 g	8.08	8.86		5.69	22.74	.44	.576	13.2
95.34	10:46	20 g	8.07	8.86		5.65	22.81	.44	.576	8.7

Sample Time 10:48

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS12

Start Time 11:07

Initial Depth to Water 63.20

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
63.20	11:09	4 g	7.43	11.34		8.10	15.97	.57	.737	41.9
63.20	11:11	8 g	7.43	11.29		8.30	16.00	.56	.733	42.5
63.22	11:13	12 g	7.43	11.26		8.53	16.01	.56	.732	42.7
63.23	11:15	16 g	7.43	11.25		8.72	16.02	.56	.731	44.3
63.24	11:17	20 g	7.42	11.22		8.95	16.04	.56	.730	44.8

Sample Time 11:19

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Project Name _____
 Job Number 347775.01.W3.01
 Field Team _____
 Field Conditions _____

Sampling Event 4Q06
 Date 10-23-06
 Meter Serial No. OSK1408 AC
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Well/Sample Number BGS-15-102306

Start Time 1235

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump

Other spigot

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH ±.1	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
n/A	12:37	4	7.96	1451		5.21	21.24			
n/A	12:39	8	7.95	1452		5.10	21.21			
n/A	12:41	12	7.99	1452		5.02	21.24			
n/A	12:43	16	8.00	1457		4.95	21.28			
n/A	12:45	20	8.00	1452		4.89	21.37			

Sample Time 1250 Sample Location: pump tubing well port domestic spigot bailer Other _____

Remarks _____

Well/Sample Number BGS-16-102306

Start Time 1258

Initial Depth to Water 92.02

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump

Other spigot

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH ±.1	Conductivity ±3% uS/cm	Turbidity NTU	Diss. Oxygen ±10% mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
92.02	1258	4	7.69	1598		5.15	21.65			
92.02	1300	8	7.68	1598		3.92	21.66			
92.01	1302	12	7.68	1598		3.73	21.74			
91.99	1304	16	7.69	1599		3.68	21.92			
92.00	1306	20	7.68	1599		3.63	21.97			

Sample Time 1310 Sample Location: pump tubing well port domestic spigot bailer Other _____

Remarks _____

Well/Sample Number BGS-14-102306

Start Time 1323

Initial Depth to Water 102.01

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump

Other spigot

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
102.01	1323	6	7.92	764		2.8	28.54			
102.8	1326	12	7.85	745		1.23	22.46			
102.85	1329	18	7.85	752		0.86	22.22			
102.86	1332	24	7.85	750		0.70	21.76			
102.85	1335	30	7.84	749		0.62	21.58			

Sample Time 1340 Sample Location: pump tubing well port domestic spigot bailer Other _____

Remarks _____

Project Name PG 22 HMKley
 Job Number 349775.01.WS.01
 Field Team _____
 Field Conditions _____

Sampling Event 4900
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Well/Sample Number B65-06-102306 Start Time 1350
 Initial Depth to Water 56.10 Duplicate Number MW-90-102306 Dupl. Time 1400
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
56.10	1353	6	7.62	787		6.25	17.67			
56.24	1356	12	7.58	785		6.10	17.18			
56.11	1358	16	7.65	799		6.33	16.25			
60.20	1403	26	7.55	787		6.26	16.27			
60.26	1406	32	7.60	789		6.08	16.31			

Sample Time 1410 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number B65-25-102306 Start Time 1443
 Initial Depth to Water 66.76 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
66.76	1445	4	7.42	2193		4.08	22.43			
66.45	1447	8	7.35	2188		3.49	22.93			
67.10	1449	12	7.29	2189		3.36	23.12			
66.35	1451	16	7.27	2188		3.31	23.00			
66.60	1453	20	7.25	2187		3.25	23.18			

Sample Time 1451 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Project Name PGE Hickley
 Job Number 349775-01 WS.01
 Field Team KELBY / JM
 Field Conditions _____

Sampling Event 4006
 Date 10-24-06
 Meter Serial No. 05K1408 AC
 Page 1 of 3

Well/Sample Number MW-36-102406

Start Time 0724 ~~0730~~ ~~0735~~

Initial Depth to Water 90.85

Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y/N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) .5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
90.86	0733	1	6.40	1010		4.97	20.79			
90.40	0735	2	7.22	1016		5.21	20.78			
90.41	0738	3	7.22	1018		5.54	20.81			
90.41	0741	5	7.25	1026		5.68	20.86			
90.41	0743	6	7.25	1027		5.80	20.85			

Sample Time 0745 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number MW-18-102406

Start Time 0819 isotope dup only

Initial Depth to Water 94.39

Duplicate Number MW-91-102406 Dupl. Time 0800

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y/N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) .5

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
94.39	0821	1	7.08	2222		4.94	19.46			
94.57	0824	2.5	7.03	2263		4.92	19.67			
94.53	0827	4	7.02	2272		4.81	19.71			
95.52	0930	5.5	7.01	2267		4.70	19.92			
95.53	0933	7	7.01	2254		4.59	20.21			

Sample Time 0935 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number 365-22-102406

Start Time 0904

Initial Depth to Water 64.27

Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other spigot

Flow Cell: Y/N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) 1

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
64.27	0907	3	7.88	656		4.49	19.08			
64.28	0910	6	7.85	656		3.92	19.13			
64.28	0913	9	7.90	619		3.40	21.40			
64.28	0916	12	7.88	622		3.22	21.60			
64.28	0919	15	7.89	621		3.08	21.84			

Sample Time 0925 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Project Name PLSE Hmk Sampling Event 4004
 Job Number 349775.01.WS.01 Date 10-24-06
 Field Team KE LJM Meter Serial No. 05K1408 AC
 Field Conditions _____ Page 2 of 3

Well/Sample Number B65-09-102406 Start Time 0947
 Initial Depth to Water N/A Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Turbidity NTU	Diss. Oxygen $\mu g/L$	Temp. $^{\circ}C$	Salinity %	TDS g/L	Eh / ORP mv
	0950	9	7.33	6.04		7.14	15.37			
	0953	18	7.28	6.09		7.73	15.34			
	0956	27	7.28	6.12		7.83	15.37			
	0959	36	7.27	6.11		8.01	15.36			
	1002	45	7.26	6.11		8.07	15.36			

Sample Time 1010 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number B65-10-102406 Start Time 1343
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Turbidity NTU	Diss. Oxygen mg/L	Temp. $^{\circ}C$	Salinity %	TDS g/L	Eh / ORP mv
104.60	1344	2	7.64	842		4.23	21.85			
104.16	1347	5	7.68	844		3.86	24.29			
104.60	1350	14	7.68	846		3.82	24.41			
105.55	1353	20	7.69	840		3.69	24.60			
104.80	1356	26	7.8	841		3.60	25.06			

Sample Time 1400 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number B65-27-102406 Start Time 1420
 Initial Depth to Water 64.40 Duplicate Number B65-27-102406 Dupl. Time 1430
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity $\mu S/cm$	Turbidity NTU	Diss. Oxygen mg/L	Temp. $^{\circ}C$	Salinity %	TDS g/L	Eh / ORP mv
64.40	1426	18	7.10	2574		5.02	21.55			
64.39	1429	27	7.09	2549		5.16	19.77			
64.39	1432	36	7.10	2543		4.95	19.73			
64.39	1435	45	7.11	2543		4.83	19.83			
64.41	1438	54	7.17	2542		4.67	20.17			

Sample Time 1445 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Project Name PG & C Hinder
 Job Number 349775.01 W5.01
 Field Team RZ / JM
 Field Conditions _____

Sampling Event 4006
 Date 10-29-06
 Meter Serial No. 05K1468 AC
 Page 3 of 3

Well/Sample Number BGS-23-102406 Start Time 1055
 Initial Depth to Water 101.29 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other spigot
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
101.29	1058	9	7.71	769		4.13	20.80			
	1059	18	7.71	769		3.99	21.33			
	109.20	27	7.71	770		3.97	21.41			
	103.44	36	7.70	769		3.92	21.49			
	106.90	49	8.69	770		3.90	21.47			

Sample Time 1115 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number BGS-18-102406 Start Time 1240
 Initial Depth to Water 4.14 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other spigot
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 2

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
N/A	1242	4	7.50	2581		3.69	22.44			
	1244	8	7.50	2584		3.62	21.96			
	1247	12	7.49	2609		3.85	21.91			
	1250	16	7.57	2261		4.30	21.93			
	1256	20	7.6	2197		4.46	21.96			
	1306	24	7.57	2311		4.62	21.79			

Sample Time 1310 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number BGS-19-102406 Start Time 1339
 Initial Depth to Water _____ Duplicate Number MW-92-102406 Dupl. Time 1330
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other spigot
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) 3

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
N/A	1335	3	7.37	2739		3.32	25.77			
	1338	12	7.34	2740		3.17	25.94			
	1341	21	7.34	2753		3.10	25.63			
	1344	24	7.34	2758		3.02	25.62			
	1347	33	7.44	2759		3.30	24.88			

Sample Time 1355 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Project Name _____
 Job Number 349775.01.WS.01
 Field Team VG, JM,
 Field Conditions 75° Sunny

Sampling Event 4004
 Date 10/25/06
 Meter Serial No. OSK1408
 Page 1 of 2

Well/Sample Number Toten-1 Start Time 13:45
 Initial Depth to Water well ID= 06E-01 Duplicate Number MW93 Dupl. Time 1400
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	En / ORP mv
	13:47	4Gal	7.40	502		7.57	18.34			-33.6
	13:49	8Gal	7.34	502		7.86	18.29			-21.8
	13:51	12Gal	7.40	500		7.36	18.31			-18.8
	13:53	16Gal	7.40	499		7.10	18.31			-17.6
	13:55	20Gal	7.40	498		7.07	18.35			-16.2
MS/MSJ done Here										

Sample Time 13:57 Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Well/Sample Number 04E-01 Start Time 14:16
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	En / ORP mv
	14:18	4Gal	7.26	1269		7.25	19.78			95.5
	14:20	8Gal	7.17	1269		7.27	19.39			98.9
	14:22	12Gal	7.13	1270		7.00	19.90			103.6
	14:24	16Gal	7.12	1268		7.30	19.29			108.7
	14:26	20Gal	7.09	1269		7.34	19.02			113.1

Sample Time 14:28 Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) Purge Rate (gpm)/(mLpm)

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	En / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Project Name _____
 Job Number 349775.01.WS.01
 Field Team W6 & JM & BT
 Field Conditions _____

Sampling Event 4004
 Date 10/25/06
 Meter Serial No. 05K1408
 Page 2 of 2

Well/Sample Number BGS-28 Start Time 8:37
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
NOT	8:39	4g	7.88	6.31		6.19	21.42			
ABLE	8:41	8g	7.89	6.31		6.07	21.50			
TO	8:43	12g	7.90	6.31		6.12	21.63			
GET	8:45	16g	7.90	6.31		6.13	21.68			
	8:47	20g	7.91	6.32		6.13	21.92			

Sample Time 8:49 Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____

Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Project Name Hinkley Background Study Qtr-4 Sampling Event _____
 Job Number 349775.01-WS.01 Date 11/13/06
 Field Team WJ & JH Meter Serial No. C101948
 Field Conditions Sunny/Windy 68° Page 1 of 3

Well/Sample Number BGS-34-11306 Start Time 10:09
 Initial Depth to Water 94.71 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
94.71	10:11	4 g	6.73	63.1	2.6	7.60	20.2		0.40	108
96.91	10:13	8 g	7.15	59.9	4.9	9.04	19.5		0.38	102
97.2	10:15	12 g	7.40	59.6	10.4	9.78	19.8		0.58	103
95.05	10:17	16 g	7.55	60.7	3.8	9.44	21.0		0.38	110
94.75	10:19	20 g	7.70	59.6	3.8	9.61	21.1		0.58	117
94.71	10:21	24 g	7.86	57.7	5.8	9.37	21.5		0.38	121

Sample Time 10:23 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number BGS-36-11306 Start Time 10:34
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
could not be taken	10:34	4 g	7.99	60.3	0.0	7.86	23.1		0.39	134
	10:38	12 g	7.99	60.6	0.0	8.47	23.3		0.39	130
	10:40	18 g	8.02	61.7	0.4	9.51	22.9		0.39	133
	10:42	24 g	8.06	61.5	0.0	9.60	22.7		0.39	138
	10:44	30 g	8.04	61.3	0.0	9.58	22.8		0.39	138

Sample Time 10:46 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number BGS-38 Start Time 11:03
 Initial Depth to Water 107.10 Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
107.10	11:05	4 g	8.17	70	4.5	9.86	22.7		0.45	161
107.10	11:07	8 g	8.18	70.4	3.4	7.89	22.8		0.45	134
107.10	11:08	12 g	8.13	70.5	0.5	9.76	22.9		0.45	113
107.10	11:10	16 g	8.10	70.2	0.0	10.04	23.0		0.45	100
112.18	11:12	20 g	8.16	69.8	0.8	10.00	23.4		0.45	95

Sample Time 11:14 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Project Name Hinkley Background Study Qtr-4
 Job Number 349775.01.WS.01
 Field Team WJ & JH
 Field Conditions windy 108%

Sampling Event _____
 Date 11/18/00
 Meter Serial No. C101948
 Page 2 of 3

Well/Sample Number BGS-50

Start Time 11:46

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	En / ORP mv
76.50	11:48	4 Gals	8.47	45.3	11.0	3.24	22.3		0.29	75
78.00	11:50	8 g	8.43	45.1	10.2	7.01	22.4		0.29	55
77.68	11:52	12 g	8.39	44.9	6.3	7.24	22.6		0.29	47
77.44	11:54	16 g	8.42	45.2	1.7	8.87	22.4		0.29	45
77.25	11:56	20 g	8.43	44.9	3.0	7.17	22.4		0.29	44

Sample Time 11:58 Sample Location: pump tubing well port domestic spigot bailer Other _____

Remarks _____

Well/Sample Number BGS-37

Start Time 12:19

Initial Depth to Water None

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	En / ORP mv
Part to	12:21	4 g	8.19	57.7	0.0	9.19	23.1		0.37	109
to	12:23	8 g	8.17	58.3	0.0	9.16	22.7		0.37	97
Sample	12:25	12 g	8.22	58.9		9.10	22.9		0.37	92
Not	12:27	16 g	8.14	58.1		9.32	22.8		0.37	90
4612	12:29	20 g	8.15	57.8		9.23	22.9		0.37	91
TB										
Take										

Sample Time 12:31 Sample Location: pump tubing well port domestic spigot bailer Other _____

Remarks _____

Well/Sample Number BGS-29

Start Time 12:55

Initial Depth to Water 91.58

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	En / ORP mv
91.58	12:57	4 g	8.09	49.5	38.9	11.52	18.0		0.32	135
93.28	12:59	8 g	8.03	49.7	0.1	9.28	21.7		0.32	136
91.58	13:00	12 g	7.97	49.4	68.4	10.48	19.3		0.32	140
91.56	13:03	16 g	8.05	48.6	502.0	10.69	19.5		0.31	142
91.40	13:05	20 g	8.06	49.0	618.0	10.66	19.5		0.32	146

Sample Time 13:07 Sample Location: pump tubing well port domestic spigot bailer Other _____

Remarks _____

Project Name Hinkley Background Study Gtr-4
 Job Number 349775.01 WS:01
 Field Team W. J. & J. M.
 Field Conditions Windy / Sunny 68°

Sampling Event _____
 Date 11/13/06
 Meter Serial No. C101949
 Page 3 of 3

Well/Sample Number BGS 31 Start Time 13:25
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
Not	13:27	49	8.22	59.5	0.0	11.81	14.1		0.38	166
90%	13:27	89	8.18	58.9	0.0	11.22	13.7		0.38	163
TD	13:31	123	8.14	59.0		11.41	13.5		0.38	166
Tad	13:33	169	8.07	58.5		11.29	13.5		0.37	161
12/13/06										
Very large Tank										

Sample Time 13:35 Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Well/Sample Number BGS-30 Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
No sample EFRAM ORTEZ wants nothing to do with us										

Sample Time _____ Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot bailer Other _____
 Remarks _____

Project Name Hinkley Background Study Qtr-4
 Job Number 349775.01.WS.01
 Field Team VG & JM
 Field Conditions Windy 20 mile/hr winds

Sampling Event _____
 Date 11/14/06
 Meter Serial No. 101948
 Page 1 of 3

Well/Sample Number Daleon-1-111406

Start Time 9:18

Initial Depth to Water 23-07

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
could not	9:20	4g	5.86	0.347	3.6	7.76	21.6		2.2	251
	9:22	8g	6.59	0.342	1.3	7.74	21.7		2.2	190
Take	9:24	12g	6.83	0.340	1.1	6.49	21.6		2.2	152
	9:26	16g	7.09	0.842	3.0	8.55	21.1		2.2	155
	9:28	20g	7.08	0.349	1.8	7.05	21.6		2.2	143
	9:30	24g	7.05	0.348	1.0	7.97	21.3		2.2	149

Sample Time 9:32 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks 9:32

Well/Sample Number BGS-41-111406

Start Time 9:58

Initial Depth to Water _____

Duplicate Number MW-90

Dupl. Time 10:16

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
well	10:00	3g	7.67	0.116	0.0	8.90	19.1		0.7	213
could not	10:02	6g	7.65	0.114		9.23	19.0		0.7	212
not	10:04	9g	7.60	0.118	0.6	9.86	18.5		0.8	204
bc	10:06	12g	7.65	0.118	0.4	10.00	18.3		0.8	200
Tagged	10:08	15g	7.69	0.112	0.0	9.86	18.4		0.7	199

Sample Time 10:10 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS-51

Start Time 10:32

Initial Depth to Water _____

MS/MSD

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
NO	10:34	4g	7.89	48.5	1.0	9.06	21.9		0.31	181
DTW	10:36	8g	7.86	48.8	0.0	8.12	22.1		0.32	179
	10:38	12g	7.82	48.7	1.0	8.05	22.2		0.32	178
	10:40	16g	7.80	48.5	0.0	8.08	22.3		0.32	175
	10:42	20g	7.78	48.9		8.63	22.1		0.32	174

Sample Time 10:44 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Project Name Hinkley Background Study Qtr-4
 Job Number 349775.01 W.S.01
 Field Team W/G & JM
 Field Conditions Windy 30 mile/hr winds

Sampling Event _____
 Date 11/14/06
 Meter Serial No. C101948
 Page 2 of 3

Well/Sample Number BGS-43

Start Time 12:30

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
	12:32	3 g	8.01	45.9	0.0	10.19	19.5		0.30	186
	12:34	6 g	7.93	45.6	.	9.54	18.7		0.30	146
	12:36	9 g	7.92	45.5	0.2	9.49	18.9		0.30	151
	12:38	12 g	7.89	45.4	8.6	9.28	19.9		0.29	155
	12:40	16 g	7.91	45.1	0.0	8.99	21.7		0.27	157

Sample Time 12:42

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS-44

Start Time 12:49

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
Well	12:51	4 g	7.93	48.1		9.40	21.7		0.31	178
was	12:53	8 g	7.94	48.9		9.10	22.3		0.32	185
locked	12:55	12 g	7.20	48.8		7.31	22.41		0.32	192
wp	12:57	16 g	7.85	49.0		8.65	22.2		0.32	194
	12:59	20 g	7.86	48.9		8.47	22.0		0.32	198

Sample Time 13:01

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS-45

Start Time _____

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
<p>BIG DOG NO Sample</p>										

Sample Time _____

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

* Gates closed, phone out of service, sampled in past. I call Melissa, went ahead and to try to sample.

Project Name Hinkley Background Study Qtr-4
 Job Number 349775.01.WS.01
 Field Team WG & JM
 Field Conditions Windy 30 mile/hr winds

Sampling Event _____
 Date 11/14/06
 Meter Serial No. C101948
 Page 3 of 3

Well/Sample Number BSS-49 Start Time 14:01
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
locked	14:03	4g	8.37	69.4	0.1	10.02	19.6		0.45	137
up	14:05	8g	8.37	69.3	57.7	9.50	18.3		0.45	140
not	14:07	12g	8.36	69.3	0.0	9.35	18.2		0.44	141
able	14:09	16g	8.36	69.6		9.14	18.2		0.45	142
to	14:11	20g	8.36	68.9		9.00	18.1		0.44	143
get										
to										

Sample Time 14:13 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number _____ Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv

Sample Time _____ Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Project Name Hinkley Background Study Qtr 4

Sampling Event

Job Number 349775.01.WS.01Date 11/15/06Field Team WG & JMMeter Serial No. C101948Field Conditions Sunny / 69 F°Page 1 of 3Well/Sample Number BGS-33Start Time 9:13

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv
	9:15	3g	7.30	0.138	10.1	9.88	19.3		0.9	124
	9:17	6g	7.52	0.133	11.5	9.96	19.6		0.9	141
	9:19	9g	7.67	0.131	6.9	9.58	20.1		0.8	147
	9:21	12g	7.74	0.132	5.9	10.10	19.7		0.8	155
	9:23	15g	7.76	0.131	5.5	9.92	20.0		0.8	161

Sample Time 9:25 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS 32Start Time 9:35

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv
No	9:37	3g	8.01	95.9	42.8	10.36	20.4		0.61	138
way	9:39	6g	8.04	95.8	80.5	10.47	20.4		0.61	134
to	9:41	9g	8.05	96.1	57.4	10.47	20.2		0.61	133
	9:43	12g	8.06	96.1	77.1	10.48	20.1		0.61	131
	9:45	15g	8.05	95.8	94.0	10.62	20.4		0.61	130

Sample Time 9:47 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS-35Start Time 10:06

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	EH / ORP mv
	10:08		8.06	68.9	0.0	8.91	20.9		0.44	140
	10:10		7.98	68.8		8.82	21.9		0.44	145
	10:12		7.94	68.7		8.83	22.2		0.44	148
	10:14		7.94	69.0		8.89	22.0		0.44	148
	10:16		7.92	69.0		9.08	22.2		0.44	149

Sample Time 10:18 Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Project Name Hinkley Background Study QTR-4 Sampling Event

Job Number 349775.01.WS.01

Date 11/15/00

Field Team WG & JM

Meter Serial No. 101948

Field Conditions Sunny 169F°

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Well/Sample Number BGS-42

Start Time 10:32

Initial Depth to Water _____

Duplicate Number MW-91

Dupl. Time 10:49

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
Cont'd	10:34	4 g	7.98	58.0	0.0	9.59	21.4		0.37	171
net	10:36	8 g	7.95	58.1		9.63	21.5		0.37	173
Take	10:38	12 g	7.95	57.8		9.02	21.5		0.37	172
	10:40	16 g	7.88	57.9		9.01	21.8		0.37	172
	10:42	20 g	7.91	58.0		9.20	21.7		0.37	171

Sample Time 10:44

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS-39

Start Time 10:57

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
Cont'd	10:59	4 g	8.10	50.7	0.0	9.05	23.1		0.32	165
Net	11:01	8 g	8.00	51.2		9.13	23.2		0.33	166
Take	11:03	12 g	7.93	51.4		8.22	23.6		0.33	159
	11:05	16 g	7.90	51.4		8.49	23.0		0.33	152
	11:07	20 g	7.91	51.3		7.34	23.3		0.33	132

Sample Time 11:09

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Well/Sample Number BGS-40

Start Time 11:17

Initial Depth to Water _____

Duplicate Number _____

Dupl. Time _____

Measure Point: Well TOC Steel Casing

Purge Method: Ded. Pump Other _____

Flow Cell: Y / N

Min. Purge Volume (gal)/(L) _____

Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	Eh / ORP mv
	11:19		8.08	49.3		9.27	20.9		0.32	153
	11:21		8.03	50.0		9.07	21.0		0.32	154
	11:23		8.02	50.0		9.63	21.0		0.32	156

Sample Time 11:25

Sample Location: pump tubing well port domestic spigot boiler Other _____

Remarks _____

Project Name Hinkley Background Study Qtr-4
 Job Number 349775.01, WS.01
 Field Team W/G & JM
 Field Conditions Sunny / 69F

Sampling Event
 Date 11/15/06
 Meter Serial No. C101948
 Page 3 of 3

Well/Sample Number BGS-47 Start Time 11:58
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	ER / ORP mv
	12:00	4g	8.49	51.3	1.7	8.73	21.60		0.33	161
	12:02	8g	8.41	50.7	0.0	4.93	22.4		0.32	156
	12:04	12g	8.38	50.9	4.0	6.32	22.7		0.32	156
	12:06	16g	8.34	51.0	2.6	6.70	22.8		0.32	156
	12:08	20g	8.36	51.0	2.6	6.77	22.8		0.33	155

Sample Time 12:10 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number BGS-46 Start Time 12:20
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	ER / ORP mv
	12:22	3g	8.09	36.2	0.8	10.20	20.0		0.24	176
	12:24	6g	7.92	36.1	0.7	9.80	19.9		0.23	179
	12:26	9g	8.04	36.0	1.3	9.94	19.6		0.23	176
	12:28	12g	8.03	36.2	1.1	10.01	19.3		0.23	187

Sample Time 12:30 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Well/Sample Number BlackTank-1-111506 Start Time _____
 Initial Depth to Water _____ Duplicate Number _____ Dupl. Time _____
 Measure Point: Well TOC Steel Casing Purge Method: Ded. Pump Other _____
 Flow Cell: Y / N Min. Purge Volume (gal)/(L) _____ Purge Rate (gpm)/(mLpm) _____

Water Level	Time	Vol. Purged gallons / liters	pH	Conductivity uS/cm	Turbidity NTU	Diss. Oxygen mg/L	Temp. °C	Salinity %	TDS g/L	ER / ORP mv

Sample Time 13:00 Sample Location: pump tubing well port domestic spigot boiler Other _____
 Remarks _____

Appendix D
**Laboratory Analytical Data and Chain-of-
Custody Records**

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
01-06	DOM/ACT	55-78		Q03	07/27/2006	GW		METAL	SW 6020A	Chromium	2.68	µg/L	1	0.5	G200-05	EMXT	CH2M
					07/27/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	UJ µg/L	0.2	0.1	G200-05	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
04E-01	DOM/ACT			Q03	07/25/2006	GW		ANION	EPA 300.0	Chloride	119	mg/L	10	2	G165-02	EMXT	CH2M				
					07/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	6.43	mg/L	2.5	0.25	G165-02	EMXT	CH2M				
					07/25/2006	GW		ANION	EPA 300.0	Sulfate	171	mg/L	10	5	G165-02	EMXT	CH2M				
					07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-02	EMXT	CH2M				
					07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	213	mg/L	5	1	G165-02	EMXT	CH2M				
					07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	213	mg/L	5	1	G165-02	EMXT	CH2M				
					07/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	765	mg/L	10	5	G165-02	EMXT	CH2M				
					07/25/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G165-02	EMXT	CH2M				
					07/25/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	G165-02	EMXT	CH2M				
					07/25/2006	GW		METAL	SW 7199	Hexavalent chromium	0.261	µg/L	0.2	0.1	G165-02	EMXT	CH2M				
					07/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	G165-02	EMXT	CH2M				
					07/25/2006	GW		Metals General	SW 6020A	Calcium	115	mg/L	1	0.05	G165-02	EMXT	CH2M				
					07/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-02	EMXT	CH2M				
					07/25/2006	GW		Metals General	SW 6020A	Magnesium	20.7	mg/L	1	0.05	G165-02	EMXT	CH2M				
					07/25/2006	GW		Metals General	SW 6020A	Potassium	4.84	mg/L	1	0.05	G165-02	EMXT	CH2M				
				07/25/2006	GW		Metals General	SW 6020A	Sodium	105	mg/L	1	0.05	G165-02	EMXT	CH2M					
				Q04					10/25/2006	GW		ANION	EPA 300.0	Chloride	125	mg/L	25	5	J279-02	EMXT	CH2M
									10/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	6.63	mg/L	0.5	0.05	J279-02	EMXT	CH2M
									10/25/2006	GW		ANION	EPA 300.0	Sulfate	183	mg/L	25	12.5	J279-02	EMXT	CH2M
									10/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	205	mg/L	5	1	J279-02	EMXT	CH2M
									10/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	205	mg/L	5	1	J279-02	EMXT	CH2M
									10/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	830	mg/L	10	5	J279-02	EMXT	CH2M
									10/25/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	J279-02	EMXT	CH2M
									10/25/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	J279-02	EMXT	CH2M
									10/25/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	J279-02	EMXT	CH2M
									10/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J279-02	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Calcium	ND <1	mg/L	1	0.05	J279-02	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J279-02	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Magnesium	ND <1	mg/L	1	0.05	J279-02	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Potassium	1.58	mg/L	1	0.05	J279-02	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Sodium	270	mg/L	1	0.05	J279-02	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
06E-01	DOM/ACT	80-300		Q03	07/24/2006	GW		ANION	EPA 300.0	Chloride	40.1	mg/L	2.5	0.5	G152-01	EMXT	CH2M	
					07/24/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	3.01	mg/L	0.5	0.05	G152-01	EMXT	CH2M	
					07/24/2006	GW		ANION	EPA 300.0	Sulfate	41.8	mg/L	2.5	1.25	G152-01	EMXT	CH2M	
					07/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	99.1	mg/L	5	1	G152-01	EMXT	CH2M	
					07/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	99.1	mg/L	5	1	G152-01	EMXT	CH2M	
					07/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	300	mg/L	10	5	G152-01	EMXT	CH2M	
					07/24/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G152-01	EMXT	CH2M	
					07/24/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	G152-01	EMXT	CH2M	
					07/24/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	G152-01	EMXT	CH2M	
					07/24/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	G152-01	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A	Calcium	35.5	mg/L	1	0.05	G152-01	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G152-01	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A	Magnesium	6.68	mg/L	1	0.05	G152-01	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A	Potassium	2.77	mg/L	1	0.05	G152-01	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A	Sodium	44.2	mg/L	1	0.05	G152-01	EMXT	CH2M	
				Q04	10/25/2006	GW		ANION	EPA 300.0	Chloride	50.9	mg/L	10	2	J279-03	EMXT	CH2M	
					10/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	3.88	mg/L	0.5	0.05	J279-03	EMXT	CH2M	
					10/25/2006	GW		ANION	EPA 300.0	Sulfate	40.1	mg/L	10	5	J279-03	EMXT	CH2M	
					10/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	108	mg/L	5	1	J279-03	EMXT	CH2M	
					10/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	108	mg/L	5	1	J279-03	EMXT	CH2M	
					10/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	325	mg/L	10	5	J279-03	EMXT	CH2M	
					10/25/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	J279-03	EMXT	CH2M	
					10/25/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	J279-03	EMXT	CH2M	
					10/25/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	J279-03	EMXT	CH2M	
					10/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J279-03	EMXT	CH2M	
					10/25/2006	GW		Metals General	SW 6020A	Calcium	39.1	mg/L	1	0.05	J279-03	EMXT	CH2M	
					10/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J279-03	EMXT	CH2M	
					10/25/2006	GW		Metals General	SW 6020A	Magnesium	6.83	mg/L	1	0.05	J279-03	EMXT	CH2M	
					10/25/2006	GW		Metals General	SW 6020A	Potassium	2.87	mg/L	1	0.05	J279-03	EMXT	CH2M	
					10/25/2006	GW		Metals General	SW 6020A	Sodium	45.1	mg/L	1	0.05	J279-03	EMXT	CH2M	
					10/25/2006	GW		Dup	ANION	EPA 300.0	Chloride	51.5	mg/L	10	2	J279-01	EMXT	CH2M
					10/25/2006	GW		Dup	ANION	EPA 300.0	Nitrate as Nitrogen	3.84	mg/L	0.5	0.05	J279-01	EMXT	CH2M
					10/25/2006	GW		Dup	ANION	EPA 300.0	Sulfate	40.4	mg/L	10	5	J279-01	EMXT	CH2M
10/25/2006	GW		Dup		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	108	mg/L	5	1	J279-01	EMXT	CH2M				
10/25/2006	GW		Dup		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	108	mg/L	5	1	J279-01	EMXT	CH2M				
10/25/2006	GW		Dup	GENERAL	EPA 160.1	Total dissolved solids	315	mg/L	10	5	J279-01	EMXT	CH2M					
10/25/2006	GW		Dup	METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	J279-01	EMXT	CH2M					

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Sample Matrix: GW = Groundwater

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
06E-01	DOM/ACT	80-300		Q04	10/25/2006	GW	Dup	METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	J279-01	EMXT	CH2M
					10/25/2006	GW	Dup	METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	J279-01	EMXT	CH2M
					10/25/2006	GW	Dup	METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J279-01	EMXT	CH2M
					10/25/2006	GW	Dup	Metals General	SW 6020A	Calcium	39.7	mg/L	1	0.05	J279-01	EMXT	CH2M
					10/25/2006	GW	Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J279-01	EMXT	CH2M
					10/25/2006	GW	Dup	Metals General	SW 6020A	Magnesium	6.96	mg/L	1	0.05	J279-01	EMXT	CH2M
					10/25/2006	GW	Dup	Metals General	SW 6020A	Potassium	2.91	mg/L	1	0.05	J279-01	EMXT	CH2M
					10/25/2006	GW	Dup	Metals General	SW 6020A	Sodium	46.2	mg/L	1	0.05	J279-01	EMXT	CH2M

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Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
27-03	AGR/ACT			Q03	07/27/2006	GW		ANION	EPA 300.0	Chloride	112	mg/L	10	2	G200-02	EMXT	CH2M	
					07/27/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	9.81	mg/L	5	0.5	G200-02	EMXT	CH2M	
					07/27/2006	GW			ANION	EPA 300.0	Sulfate	71.1	mg/L	5	2.5	G200-02	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	G200-02	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	G200-02	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	530	mg/L	10	5	G200-02	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G200-02	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Chromium	2.38	µg/L	1	0.5	G200-02	EMXT	CH2M
					07/27/2006	GW			METAL	SW 7199	Hexavalent chromium	2.17	µg/L	0.2	0.1	G200-02	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	G200-02	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Calcium	69.1	mg/L	1	0.05	G200-02	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G200-02	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Magnesium	14.1	mg/L	1	0.05	G200-02	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Potassium	3.13	mg/L	1	0.05	G200-02	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Sodium	83.3	mg/L	1	0.05	G200-02	EMXT	CH2M

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
36-24	DOM/ACT			Q03	07/27/2006	GW		ANION	EPA 300.0	Chloride	147	mg/L	10	2	G200-04	EMXT	CH2M	
					07/27/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	13.9	mg/L	5	0.5	G200-04	EMXT	CH2M	
					07/27/2006	GW			ANION	EPA 300.0	Sulfate	191	mg/L	10	5	G200-04	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	432	mg/L	5	1	G200-04	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	432	mg/L	5	1	G200-04	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	1080	mg/L	10	5	G200-04	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G200-04	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Chromium	1.8	µg/L	1	0.5	G200-04	EMXT	CH2M
					07/27/2006	GW			METAL	SW 7199	Hexavalent chromium	1.64 J	µg/L	0.2	0.1	G200-04	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	G200-04	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Calcium	155	mg/L	1	0.05	G200-04	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G200-04	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Magnesium	26.9	mg/L	1	0.05	G200-04	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Potassium	4.54	mg/L	1	0.05	G200-04	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Sodium	188	mg/L	1	0.05	G200-04	EMXT	CH2M

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
36-25	DOM/ACT			Q03	07/27/2006	GW		ANION	EPA 300.0	Chloride	160	mg/L	10	2	G200-03	EMXT	CH2M	
					07/27/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	21	mg/L	10	1	G200-03	EMXT	CH2M	
					07/27/2006	GW			ANION	EPA 300.0	Sulfate	242	mg/L	10	5	G200-03	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	469	mg/L	5	1	G200-03	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	469	mg/L	5	1	G200-03	EMXT	CH2M
					07/27/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	1260	mg/L	10	5	G200-03	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G200-03	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Chromium	2.01	µg/L	1	0.5	G200-03	EMXT	CH2M
					07/27/2006	GW			METAL	SW 7199	Hexavalent chromium	1.7	µg/L	0.2	0.1	G200-03	EMXT	CH2M
					07/27/2006	GW			METAL	SW 6020A	Manganese	0.00104	mg/L	0.001	0.0005	G200-03	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Calcium	147	mg/L	1	0.05	G200-03	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G200-03	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Magnesium	28.2	mg/L	1	0.05	G200-03	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Potassium	4.29	mg/L	1	0.05	G200-03	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Sodium	263	mg/L	1	0.05	G200-03	EMXT	CH2M

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BGS-01	DOM/ACT	90-150		Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-03	EMXT	CH2M				
					01/31/2006	GW		ANION	EPA 300.0	Chloride	113	mg/L	10	2	B004-03	EMXT	CH2M				
					01/31/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.71	mg/L	0.5	0.05	B004-03	EMXT	CH2M				
					01/31/2006	GW		ANION	EPA 300.0	Sulfate	176	mg/L	10	5	B004-03	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-03	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	145	mg/L	5	1	B004-03	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	145	mg/L	5	1	B004-03	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-03	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	700	mg/L	10	5	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Arsenic	0.00711	mg/L	0.005	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Barium	0.0406	mg/L	0.001	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951327-003	TLI	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	0.32	µg/L	0.2	0.0184	951327-003	TLI	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Molybdenum	0.00848	mg/L	0.005	0.001	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-03	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Zinc	0.0343	mg/L	0.02	0.005	B004-03	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Calcium	81.4	mg/L	1	0.05	B004-03	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-03	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Magnesium	16.9	mg/L	1	0.05	B004-03	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Potassium	4.78	mg/L	1	0.05	B004-03	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Sodium	107	mg/L	1	0.05	B004-03	EMXT	CH2M				
					Q02				04/25/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D191-01	EMXT	CH2M
									04/25/2006	GW		ANION	EPA 300.0	Chloride	155	mg/L	12.5	2.5	D191-01	EMXT	CH2M
04/25/2006	GW		ANION	EPA 300.0					Nitrate as Nitrogen	2.52	mg/L	0.5	0.05	D191-01	EMXT	CH2M					
04/25/2006	GW		ANION	EPA 300.0					Sulfate	248	mg/L	12.5	6.25	D191-01	EMXT	CH2M					
04/25/2006	GW		GENERAL	EPA 310.1					Alkalinity, as carbonate	ND <5	mg/L	5	1	D191-01	EMXT	CH2M					
04/25/2006	GW		GENERAL	EPA 310.1					Alkalinity, bicarb as CaCO3	162	mg/L	5	1	D191-01	EMXT	CH2M					

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-01	DOM/ACT	90-150		Q02	04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	162	mg/L	5	1	D191-01	EMXT	CH2M					
					04/25/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D191-01	EMXT	CH2M					
					04/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	870	mg/L	10	5	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Arsenic	0.00618	mg/L	0.005	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Barium	0.0536	mg/L	0.001	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Chromalt	ND <0.001	mg/L	0.001	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 7199	Hexavalent chromium	0.495	µg/L	0.2	0.1	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Manganese	0.00279	mg/L	0.001	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Molybdenum	0.009	mg/L	0.005	0.001	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D191-01	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Zinc	0.0269 J	mg/L	0.02	0.005	D191-01	EMXT	CH2M					
					04/25/2006	GW		Metals General	SW 6020A	Calcium	106	mg/L	1	0.05	D191-01	EMXT	CH2M					
					04/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D191-01	EMXT	CH2M					
					04/25/2006	GW		Metals General	SW 6020A	Magnesium	21.1	mg/L	1	0.05	D191-01	EMXT	CH2M					
					04/25/2006	GW		Metals General	SW 6020A	Potassium	5.35	mg/L	1	0.05	D191-01	EMXT	CH2M					
					04/25/2006	GW		Metals General	SW 6020A	Sodium	129	mg/L	1	0.05	D191-01	EMXT	CH2M					
					Q03				Q03	07/25/2006	GW		ANION	EPA 300.0	Chloride	90.9	mg/L	10	2	G165-03	EMXT	CH2M
										07/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.42	mg/L	0.5	0.05	G165-03	EMXT	CH2M
										07/25/2006	GW		ANION	EPA 300.0	Sulfate	129	mg/L	10	5	G165-03	EMXT	CH2M
										07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-03	EMXT	CH2M
										07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	123	mg/L	5	1	G165-03	EMXT	CH2M
										07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	123	mg/L	5	1	G165-03	EMXT	CH2M
										07/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	545	mg/L	10	5	G165-03	EMXT	CH2M
										07/25/2006	GW		METAL	SW 6020A	Arsenic	0.00733	mg/L	0.005	0.0005	G165-03	EMXT	CH2M
07/25/2006	GW		METAL	SW 6020A						Chromium	ND <1	µg/L	1	0.5	G165-03	EMXT	CH2M					
07/25/2006	GW		METAL	SW 7199						Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	G165-03	EMXT	CH2M					
07/25/2006	GW		METAL	SW 6020A						Manganese	ND <0.01	mg/L	0.01	0.0005	G165-03	EMXT	CH2M					
07/25/2006	GW		Metals General	SW 6020A						Calcium	57.6	mg/L	1	0.05	G165-03	EMXT	CH2M					

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor			
BGS-01	DOM/ACT	90-150		Q03	07/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-03	EMXT	CH2M			
					07/25/2006	GW		Metals General	SW 6020A	Magnesium	13.1	mg/L	1	0.05	G165-03	EMXT	CH2M			
					07/25/2006	GW		Metals General	SW 6020A	Potassium	4	mg/L	1	0.05	G165-03	EMXT	CH2M			
					07/25/2006	GW		Metals General	SW 6020A	Sodium	76.1	mg/L	1	0.05	G165-03	EMXT	CH2M			
				Q04	10/23/2006	GW		ANION	EPA 300.0			Chloride		123	mg/L	10	2	J236-04	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0			Nitrate as Nitrogen		1.98	mg/L	0.5	0.05	J236-04	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0			Sulfate		187	mg/L	10	5	J236-04	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1			Alkalinity, bicarb as CaCO3		140	mg/L	5	1	J236-04	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1			Alkalinity, total as CaCO3		140	mg/L	5	1	J236-04	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 160.1			Total dissolved solids		690	mg/L	10	5	J236-04	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Arsenic		0.00728	mg/L	0.005	0.0005	J236-04	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Chromium		ND <1	µg/L	1	0.5	J236-04	EMXT	CH2M
					10/23/2006	GW		METAL	SW 7199			Hexavalent chromium		0.328 J	µg/L	0.2	0.1	J236-04	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Manganese		ND <0.01	mg/L	0.01	0.0005	J236-04	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Calcium		81.3	mg/L	1	0.05	J236-04	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Iron		ND <0.5	mg/L	0.5	0.05	J236-04	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Magnesium		16.6	mg/L	1	0.05	J236-04	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Potassium		4.8	mg/L	1	0.05	J236-04	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Sodium		96.6	mg/L	1	0.05	J236-04	EMXT	CH2M

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-04	DOM/ACT	83-153		Q01	02/01/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B015-02	EMXT	CH2M					
					02/01/2006	GW		ANION	EPA 300.0	Chloride	45	mg/L	5	1	B015-02	EMXT	CH2M					
					02/01/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	B015-02	EMXT	CH2M					
					02/01/2006	GW		ANION	EPA 300.0	Sulfate	63.6	mg/L	5	2.5	B015-02	EMXT	CH2M					
					02/01/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B015-02	EMXT	CH2M					
					02/01/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	131	mg/L	5	1	B015-02	EMXT	CH2M					
					02/01/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	131	mg/L	5	1	B015-02	EMXT	CH2M					
					02/01/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B015-02	EMXT	CH2M					
					02/01/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	350	mg/L	10	5	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Arsenic	0.0129	mg/L	0.005	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Barium	0.0451	mg/L	0.001	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Chromium	2.39	µg/L	1	0.075	951368-002	TLI	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 7199	Hexavalent chromium	2.5	µg/L	0.2	0.0184	951368-002	TLI	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Molybdenum	0.00704	mg/L	0.005	0.001	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B015-02	EMXT	CH2M					
					02/01/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	B015-02	EMXT	CH2M					
					02/01/2006	GW		Metals General	SW 6020A	Calcium	22.8	mg/L	1	0.05	B015-02	EMXT	CH2M					
					02/01/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B015-02	EMXT	CH2M					
					02/01/2006	GW		Metals General	SW 6020A	Magnesium	10.1	mg/L	1	0.05	B015-02	EMXT	CH2M					
					02/01/2006	GW		Metals General	SW 6020A	Potassium	2.93	mg/L	1	0.05	B015-02	EMXT	CH2M					
					02/01/2006	GW		Metals General	SW 6020A	Sodium	92.7	mg/L	1	0.05	B015-02	EMXT	CH2M					
					BGS-04	DOM/ACT	83-153		Q02	04/26/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D205-07	EMXT	CH2M
										04/26/2006	GW		ANION	EPA 300.0	Chloride	43.5	mg/L	10	2	D205-07	EMXT	CH2M
04/26/2006	GW		ANION	EPA 300.0						Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	D205-07	EMXT	CH2M					
04/26/2006	GW		ANION	EPA 300.0						Sulfate	63.9	mg/L	10	5	D205-07	EMXT	CH2M					
04/26/2006	GW		GENERAL	EPA 310.1						Alkalinity, as carbonate	ND <5	mg/L	5	1	D205-07	EMXT	CH2M					
04/26/2006	GW		GENERAL	EPA 310.1						Alkalinity, bicarb as CaCO3	140	mg/L	5	1	D205-07	EMXT	CH2M					

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Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-04	DOM/ACT	83-153		Q02	04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	140	mg/L	5	1	D205-07	EMXT	CH2M	
					04/26/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D205-07	EMXT	CH2M	
					04/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	390	mg/L	10	5	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Arsenic	0.0126	mg/L	0.005	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Barium	0.0435	mg/L	0.001	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Chromium	2.74	µg/L	1	0.5	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	2.4	µg/L	0.2	0.1	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Molybdenum	0.00708	mg/L	0.005	0.001	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D205-07	EMXT	CH2M	
					04/26/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	D205-07	EMXT	CH2M	
					04/26/2006	GW		Metals General	SW 6020A	Calcium	21.2	mg/L	1	0.05	D205-07	EMXT	CH2M	
					04/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D205-07	EMXT	CH2M	
					04/26/2006	GW		Metals General	SW 6020A	Magnesium	10.1	mg/L	1	0.05	D205-07	EMXT	CH2M	
					04/26/2006	GW		Metals General	SW 6020A	Potassium	2.72	mg/L	1	0.05	D205-07	EMXT	CH2M	
					04/26/2006	GW		Metals General	SW 6020A	Sodium	88.6	mg/L	1	0.05	D205-07	EMXT	CH2M	
					04/26/2006	GW		Dup	ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	ANION	EPA 300.0	Chloride	43.8	mg/L	5	1	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	ANION	EPA 300.0	Sulfate	63.1	mg/L	5	2.5	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	143	mg/L	5	1	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	143	mg/L	5	1	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	GENERAL	EPA 160.1	Total dissolved solids	340	mg/L	10	5	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	METAL	SW 6020A	Arsenic	0.0129	mg/L	0.005	0.0005	D205-06	EMXT	CH2M
					04/26/2006	GW		Dup	METAL	SW 6020A	Barium	0.0435	mg/L	0.001	0.0005	D205-06	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-04	DOM/ACT	83-153		Q02	04/26/2006	GW	Dup	METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Chromium	2.87	µg/L	1	0.5	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 7199	Hexavalent chromium	2.41	µg/L	0.2	0.1	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Molybdenum	0.00708	mg/L	0.005	0.001	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	Metals General	SW 6020A	Calcium	21.4	mg/L	1	0.05	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	Metals General	SW 6020A	Magnesium	10.5	mg/L	1	0.05	D205-06	EMXT	CH2M				
					04/26/2006	GW	Dup	Metals General	SW 6020A	Potassium	2.7	mg/L	1	0.05	D205-06	EMXT	CH2M				
				04/26/2006	GW	Dup	Metals General	SW 6020A	Sodium	89.1	mg/L	1	0.05	D205-06	EMXT	CH2M					
				Q03					07/25/2006	GW		ANION	EPA 300.0	Chloride	46.1	mg/L	5	1	G165-10	EMXT	CH2M
									07/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G165-10	EMXT	CH2M
									07/25/2006	GW		ANION	EPA 300.0	Sulfate	65.2	mg/L	5	2.5	G165-10	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-10	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	G165-10	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	G165-10	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	360	mg/L	10	5	G165-10	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Arsenic	0.0135	mg/L	0.005	0.0005	G165-10	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Chromium	2.73	µg/L	1	0.5	G165-10	EMXT	CH2M
									07/25/2006	GW		METAL	SW 7199	Hexavalent chromium	2.56	µg/L	0.2	0.1	G165-10	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	G165-10	EMXT	CH2M
									07/25/2006	GW		Metals General	SW 6020A	Calcium	20.7	mg/L	1	0.05	G165-10	EMXT	CH2M
									07/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-10	EMXT	CH2M
									07/25/2006	GW		Metals General	SW 6020A	Magnesium	10.1	mg/L	1	0.05	G165-10	EMXT	CH2M
07/25/2006	GW		Metals General						SW 6020A	Potassium	2.94	mg/L	1	0.05	G165-10	EMXT	CH2M				
07/25/2006	GW		Metals General	SW 6020A	Sodium	84.4	mg/L	1	0.05	G165-10	EMXT	CH2M									
07/25/2006	GW	Dup	ANION	EPA 300.0	Chloride	45.4	mg/L	5	1	G165-09	EMXT	CH2M									
07/25/2006	GW	Dup	ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G165-09	EMXT	CH2M									

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-04	DOM/ACT	83-153		Q03	07/25/2006	GW	Dup	ANION	EPA 300.0	Sulfate	64.2	mg/L	5	2.5	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	GENERAL	EPA 160.1	Total dissolved solids	360	mg/L	10	5	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	METAL	SW 6020A	Arsenic	0.0125	mg/L	0.005	0.0005	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	METAL	SW 6020A	Chromium	2.65	µg/L	1	0.5	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	METAL	SW 7199	Hexavalent chromium	2.53	µg/L	0.2	0.1	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Calcium	19.9	mg/L	1	0.05	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Magnesium	9.61	mg/L	1	0.05	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Potassium	2.78	mg/L	1	0.05	G165-09	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Sodium	80.6	mg/L	1	0.05	G165-09	EMXT	CH2M
					Q04	10/23/2006	GW		ANION	EPA 300.0	Chloride	46.6	mg/L	10	2	J236-05	EMXT
				10/23/2006		GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	J236-05	EMXT	CH2M
				10/23/2006		GW		ANION	EPA 300.0	Sulfate	67.7	mg/L	10	5	J236-05	EMXT	CH2M
				10/23/2006		GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	J236-05	EMXT	CH2M
				10/23/2006		GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	J236-05	EMXT	CH2M
				10/23/2006		GW		GENERAL	EPA 160.1	Total dissolved solids	385	mg/L	10	5	J236-05	EMXT	CH2M
				10/23/2006		GW		METAL	SW 6020A	Arsenic	0.0137	mg/L	0.005	0.0005	J236-05	EMXT	CH2M
				10/23/2006		GW		METAL	SW 6020A	Chromium	2.77	µg/L	1	0.5	J236-05	EMXT	CH2M
				10/23/2006		GW		METAL	SW 7199	Hexavalent chromium	2.6 J	µg/L	0.2	0.1	J236-05	EMXT	CH2M
				10/23/2006		GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J236-05	EMXT	CH2M
				10/23/2006		GW		Metals General	SW 6020A	Calcium	21.6	mg/L	1	0.05	J236-05	EMXT	CH2M
				10/23/2006		GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J236-05	EMXT	CH2M
				10/23/2006		GW		Metals General	SW 6020A	Magnesium	9.71	mg/L	1	0.05	J236-05	EMXT	CH2M
				10/23/2006		GW		Metals General	SW 6020A	Potassium	2.92	mg/L	1	0.05	J236-05	EMXT	CH2M
				10/23/2006		GW		Metals General	SW 6020A	Sodium	84	mg/L	1	0.05	J236-05	EMXT	CH2M

Notes:

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Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-05	DOM/ACT			Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-10	EMXT	CH2M				
					01/31/2006	GW		ANION	EPA 300.0	Chloride	86.8	mg/L	5	1	B004-10	EMXT	CH2M				
					01/31/2006	GW		ANION	EPA 300.0	Sulfate	104	mg/L	5	2.5	B004-10	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-10	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	264	mg/L	5	1	B004-10	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	264	mg/L	5	1	B004-10	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-10	EMXT	CH2M				
					01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	670	mg/L	10	5	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Barium	0.087	mg/L	0.001	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Chromium	1.11	µg/L	1	0.075	951327-010	TLI	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	0.959	µg/L	0.2	0.0184	951327-010	TLI	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-10	EMXT	CH2M				
					01/31/2006	GW		METAL	SW 6020A	Zinc	0.0203	mg/L	0.02	0.005	B004-10	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Calcium	100	mg/L	1	0.05	B004-10	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-10	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Magnesium	18.5	mg/L	1	0.05	B004-10	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Potassium	3.67	mg/L	1	0.05	B004-10	EMXT	CH2M				
					01/31/2006	GW		Metals General	SW 6020A	Sodium	91	mg/L	1	0.05	B004-10	EMXT	CH2M				
					Q02				04/25/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D191-06	EMXT	CH2M
									04/25/2006	GW		ANION	EPA 300.0	Chloride	96.7	mg/L	12.5	2.5	D191-06	EMXT	CH2M
									04/25/2006	GW		ANION	EPA 300.0	Sulfate	146	mg/L	12.5	6.25	D191-06	EMXT	CH2M
									04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D191-06	EMXT	CH2M
04/25/2006	GW		GENERAL	EPA 310.1					Alkalinity, bicarb as CaCO3	349	mg/L	5	1	D191-06	EMXT	CH2M					
04/25/2006	GW		GENERAL	EPA 310.1					Alkalinity, total as CaCO3	349	mg/L	5	1	D191-06	EMXT	CH2M					
04/25/2006	GW		GENERAL	EPA 350.2					Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D191-06	EMXT	CH2M					

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-05	DOM/ACT			Q02	04/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	910	mg/L	10	5	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Antimony	ND <0.001	mg/L	0.001	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Arsenic	ND <0.005	mg/L	0.005	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Barium	0.0595	mg/L	0.001	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Beryllium	ND <0.001	mg/L	0.001	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Cadmium	ND <0.001	mg/L	0.001	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Chromium	ND <1	µg/L	1	0.5	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Cobalt	ND <0.001	mg/L	0.001	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Copper	ND <0.01	mg/L	0.01	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 7199		Hexavalent chromium	0.762	µg/L	0.2	0.1	D191-06R	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Lead	ND <0.005	mg/L	0.005	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Manganese	ND <0.001	mg/L	0.001	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	EPA 7470A		Mercury	ND <0.5	µg/L	0.5	0.1	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Molybdenum	ND <0.005	mg/L	0.005	0.001	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Nickel	ND <0.02	mg/L	0.02	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Selenium	ND <0.001	mg/L	0.001	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Thallium	ND <0.001	mg/L	0.001	0.0005	D191-06	EMXT	CH2M
				04/25/2006	GW		METAL	SW 6020A		Zinc	ND <0.02	mg/L	0.02	0.005	D191-06	EMXT	CH2M
				04/25/2006	GW			Metals General	SW 6020A	Calcium	124	mg/L	1	0.05	D191-06	EMXT	CH2M
				04/25/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D191-06	EMXT	CH2M
				04/25/2006	GW			Metals General	SW 6020A	Magnesium	21.1	mg/L	1	0.05	D191-06	EMXT	CH2M
				04/25/2006	GW			Metals General	SW 6020A	Potassium	3.6	mg/L	1	0.05	D191-06	EMXT	CH2M
				04/25/2006	GW			Metals General	SW 6020A	Sodium	144	mg/L	1	0.05	D191-06	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-06	DOM/ACT	100-200		Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-05	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Chloride	55	mg/L	5	1	B004-05	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	6.82	mg/L	2.5	0.25	B004-05	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Sulfate	60	mg/L	2.5	1.25	B004-05	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-05	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	173	mg/L	5	1	B004-05	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	173	mg/L	5	1	B004-05	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-05	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	410	mg/L	10	5	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Barium	0.0784	mg/L	0.001	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951327-005	TLI	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.0184	951327-005	TLI	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Manganese	0.00464	mg/L	0.001	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-05	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Zinc	0.0379	mg/L	0.02	0.005	B004-05	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Calcium	55.1	mg/L	1	0.05	B004-05	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-05	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Magnesium	10.2	mg/L	1	0.05	B004-05	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Potassium	3.04	mg/L	1	0.05	B004-05	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Sodium	77.2	mg/L	1	0.05	B004-05	EMXT	CH2M					
					BGS-06	DOM/ACT	100-200		Q02	04/26/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D205-01	EMXT	CH2M
										04/26/2006	GW		ANION	EPA 300.0	Chloride	42.7	mg/L	5	1	D205-01	EMXT	CH2M
04/26/2006	GW		ANION	EPA 300.0						Nitrate as Nitrogen	1.42	mg/L	0.5	0.05	D205-01	EMXT	CH2M					
04/26/2006	GW		ANION	EPA 300.0						Sulfate	47.3	mg/L	5	2.5	D205-01	EMXT	CH2M					
04/26/2006	GW		GENERAL	EPA 310.1						Alkalinity, as carbonate	ND <5	mg/L	5	1	D205-01	EMXT	CH2M					
04/26/2006	GW		GENERAL	EPA 310.1						Alkalinity, bicarb as CaCO3	98.9	mg/L	5	1	D205-01	EMXT	CH2M					

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-06	DOM/ACT	100-200		Q02	04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	98.9	mg/L	5	1	D205-01	EMXT	CH2M				
					04/26/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D205-01	EMXT	CH2M				
					04/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	305	mg/L	10	5	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Barium	0.0661	mg/L	0.001	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D205-01	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D205-01	EMXT	CH2M				
				04/26/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D205-01	EMXT	CH2M					
				04/26/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	D205-01	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Calcium	41.1	mg/L	1	0.05	D205-01	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D205-01	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Magnesium	7.55	mg/L	1	0.05	D205-01	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Potassium	2.45	mg/L	1	0.05	D205-01	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Sodium	45.2	mg/L	1	0.05	D205-01	EMXT	CH2M					
				Q03					07/24/2006	GW		ANION	EPA 300.0	Chloride	62.7	mg/L	5	1	G152-04	EMXT	CH2M
									07/24/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	4.79	mg/L	0.5	0.05	G152-04	EMXT	CH2M
									07/24/2006	GW		ANION	EPA 300.0	Sulfate	49.4	mg/L	2.5	1.25	G152-04	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	115	mg/L	5	1	G152-04	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	115	mg/L	5	1	G152-04	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	330	mg/L	10	5	G152-04	EMXT	CH2M
									07/24/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G152-04	EMXT	CH2M
									07/24/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	G152-04	EMXT	CH2M
									07/24/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	G152-04	EMXT	CH2M
									07/24/2006	GW		METAL	SW 6020A	Manganese	0.0015	mg/L	0.001	0.0005	G152-04	EMXT	CH2M
									07/24/2006	GW		Metals General	SW 6020A	Calcium	45.9	mg/L	1	0.05	G152-04	EMXT	CH2M
07/24/2006	GW		Metals General						SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G152-04	EMXT	CH2M				

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-06	DOM/ACT	100-200		Q03	07/24/2006	GW		Metals General	SW 6020A	Magnesium	8.62	mg/L	1	0.05	G152-04	EMXT	CH2M		
					07/24/2006	GW		Metals General	SW 6020A	Potassium	2.76	mg/L	1	0.05	G152-04	EMXT	CH2M		
					07/24/2006	GW		Metals General	SW 6020A	Sodium	58	mg/L	1	0.05	G152-04	EMXT	CH2M		
					Q04	10/23/2006	GW		ANION	EPA 300.0	Chloride	43.7	mg/L	5	1	J236-01	EMXT	CH2M	
						10/23/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.74	mg/L	0.5	0.05	J236-01	EMXT	CH2M	
						10/23/2006	GW		ANION	EPA 300.0	Sulfate	44.2	mg/L	5	2.5	J236-01	EMXT	CH2M	
						10/23/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	97.5	mg/L	5	1	J236-01	EMXT	CH2M	
						10/23/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	97.5	mg/L	5	1	J236-01	EMXT	CH2M	
						10/23/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	280	mg/L	10	5	J236-01	EMXT	CH2M	
						10/23/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	J236-01	EMXT	CH2M	
						10/23/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	J236-01	EMXT	CH2M	
						10/23/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	J236-01	EMXT	CH2M	
						10/23/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J236-01	EMXT	CH2M	
						10/23/2006	GW		Metals General	SW 6020A	Calcium	37.4	mg/L	1	0.05	J236-01	EMXT	CH2M	
						10/23/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J236-01	EMXT	CH2M	
						10/23/2006	GW		Metals General	SW 6020A	Magnesium	6.45	mg/L	1	0.05	J236-01	EMXT	CH2M	
						10/23/2006	GW		Metals General	SW 6020A	Potassium	2.52	mg/L	1	0.05	J236-01	EMXT	CH2M	
						10/23/2006	GW		Metals General	SW 6020A	Sodium	44.4	mg/L	1	0.05	J236-01	EMXT	CH2M	
						10/23/2006	GW	Dup		ANION	EPA 300.0	Chloride	44.2	mg/L	5	1	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		ANION	EPA 300.0	Nitrate as Nitrogen	1.67	mg/L	0.5	0.05	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		ANION	EPA 300.0	Sulfate	45.2	mg/L	5	2.5	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	95	mg/L	5	1	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	95	mg/L	5	1	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		GENERAL	EPA 160.1	Total dissolved solids	240	mg/L	10	5	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		Metals General	SW 6020A	Calcium	37	mg/L	1	0.05	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		Metals General	SW 6020A	Magnesium	6.45	mg/L	1	0.05	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		Metals General	SW 6020A	Potassium	2.45	mg/L	1	0.05	J236-03	EMXT	CH2M
						10/23/2006	GW	Dup		Metals General	SW 6020A	Sodium	43.5	mg/L	1	0.05	J236-03	EMXT	CH2M

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-09	DOM/ACT			Q01	01/30/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	A174-01	EMXT	CH2M		
				01/30/2006	GW		ANION	EPA 300.0	Chloride	32.8	mg/L	2.5	0.5	A174-01	EMXT	CH2M			
				01/30/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.15	mg/L	0.5	0.05	A174-01	EMXT	CH2M			
				01/30/2006	GW		ANION	EPA 300.0	Sulfate	37.7	mg/L	2.5	1.25	A174-01	EMXT	CH2M			
				01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	A174-01	EMXT	CH2M			
				01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	90.3	mg/L	5	1	A174-01	EMXT	CH2M			
				01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	90.3	mg/L	5	1	A174-01	EMXT	CH2M			
				01/30/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	A174-01	EMXT	CH2M			
				01/30/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	235	mg/L	10	5	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Barium	0.0444	mg/L	0.001	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951265-001	TLI	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.0184	951265-001	TLI	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Manganese	0.00396	mg/L	0.001	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METAL	SW 6020A	Zinc	0.0257	mg/L	0.02	0.005	A174-01	EMXT	CH2M			
				01/30/2006	GW		METALS	SW 6020A	Calcium	31.3	mg/L	1	0.05	A174-01	EMXT	CH2M			
				01/30/2006	GW		METALS	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	A174-01	EMXT	CH2M			
				01/30/2006	GW		METALS	SW 6020A	Magnesium	5.88	mg/L	1	0.05	A174-01	EMXT	CH2M			
				01/30/2006	GW		METALS	SW 6020A	Potassium	2.44	mg/L	1	0.05	A174-01	EMXT	CH2M			
				01/30/2006	GW		METALS	SW 6020A	Sodium	34.7	mg/L	1	0.05	A174-01	EMXT	CH2M			
						Q02	04/24/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D180-03	EMXT	CH2M
						04/24/2006	GW		ANION	EPA 300.0	Chloride	53.1	mg/L	5	1	D180-03	EMXT	CH2M	
				04/24/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	0.854	mg/L	0.5	0.05	D180-03	EMXT	CH2M			
				04/24/2006	GW		ANION	EPA 300.0	Sulfate	36.8	mg/L	5	2.5	D180-03	EMXT	CH2M			
				04/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D180-03	EMXT	CH2M			
				04/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	79.6	mg/L	5	1	D180-03	EMXT	CH2M			

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT = inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-09	DOM/ACT			Q02	04/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	79.6	mg/L	5	1	D180-03	EMXT	CH2M				
					04/24/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D180-03	EMXT	CH2M				
					04/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	265	mg/L	10	5	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Barium	0.0525	mg/L	0.001	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	D180-03R	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Manganese	0.0022	mg/L	0.001	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D180-03	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	D180-03	EMXT	CH2M				
				04/24/2006	GW		Metals General	SW 6020A	Calcium	37.2	mg/L	1	0.05	D180-03	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D180-03	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Magnesium	6.53	mg/L	1	0.05	D180-03	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Potassium	2.36	mg/L	1	0.05	D180-03	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Sodium	39.9	mg/L	1	0.05	D180-03	EMXT	CH2M					
				Q03					07/24/2006	GW		ANION	EPA 300.0	Chloride	34.2	mg/L	2.5	0.5	G152-02	EMXT	CH2M
									07/24/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.17	mg/L	0.5	0.05	G152-02	EMXT	CH2M
									07/24/2006	GW		ANION	EPA 300.0	Sulfate	38.6	mg/L	2.5	1.25	G152-02	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	91.2	mg/L	5	1	G152-02	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	91.2	mg/L	5	1	G152-02	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	265	mg/L	10	5	G152-02	EMXT	CH2M
									07/24/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G152-02	EMXT	CH2M
									07/24/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	G152-02	EMXT	CH2M
									07/24/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	G152-02	EMXT	CH2M
07/24/2006	GW		METAL						SW 6020A	Manganese	0.00131	mg/L	0.001	0.0005	G152-02	EMXT	CH2M				
07/24/2006	GW		Metals General						SW 6020A	Calcium	35.9	mg/L	1	0.05	G152-02	EMXT	CH2M				
07/24/2006	GW		Metals General						SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G152-02	EMXT	CH2M				

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Sample Matrix: GW = Groundwater

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Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-09	DOM/ACT			Q03	07/24/2006	GW		Metals General	SW 6020A	Magnesium	6.71	mg/L	1	0.05	G152-02	EMXT	CH2M		
				07/24/2006	GW		Metals General	SW 6020A	Potassium	2.62	mg/L	1	0.05	G152-02	EMXT	CH2M			
				07/24/2006	GW		Metals General	SW 6020A	Sodium	36.8	mg/L	1	0.05	G152-02	EMXT	CH2M			
				07/24/2006	GW	Dup	ANION	EPA 300.0		Chloride	34.8	mg/L	2.5	0.5	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	ANION	EPA 300.0		Nitrate as Nitrogen	1.17	mg/L	0.5	0.05	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	ANION	EPA 300.0		Sulfate	39.1	mg/L	2.5	1.25	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	GENERAL	EPA 310.1		Alkalinity, bicarb as CaCO3	93.8	mg/L	5	1	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	GENERAL	EPA 310.1		Alkalinity, total as CaCO3	93.8	mg/L	5	1	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	GENERAL	EPA 160.1		Total dissolved solids	245	mg/L	10	5	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	METAL	SW 6020A		Arsenic	ND <0.005	mg/L	0.005	0.0005	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	METAL	SW 6020A		Chromium	ND <1	µg/L	1	0.5	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	METAL	SW 7199		Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	METAL	SW 6020A		Manganese	0.00129	mg/L	0.001	0.0005	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	Metals General	SW 6020A		Calcium	34.9	mg/L	1	0.05	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	Metals General	SW 6020A		Iron	ND <0.5	mg/L	0.5	0.05	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	Metals General	SW 6020A		Magnesium	6.61	mg/L	1	0.05	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	Metals General	SW 6020A		Potassium	2.55	mg/L	1	0.05	G152-03	EMXT	CH2M		
				07/24/2006	GW	Dup	Metals General	SW 6020A		Sodium	36.1	mg/L	1	0.05	G152-03	EMXT	CH2M		
						Q04	10/24/2006	GW		ANION	EPA 300.0	Chloride	34.2	mg/L	25	5	J257-01	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0		Nitrate as Nitrogen	1.09	mg/L	0.5	0.05	J257-01	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0		Sulfate	43.4	mg/L	25	12.5	J257-01	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 310.1		Alkalinity, bicarb as CaCO3	95	mg/L	5	1	J257-01	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 310.1		Alkalinity, total as CaCO3	95	mg/L	5	1	J257-01	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 160.1		Total dissolved solids	255	mg/L	10	5	J257-01	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Arsenic	ND <0.005	mg/L	0.005	0.0005	J257-01	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Chromium	ND <1	µg/L	1	0.5	J257-01	EMXT	CH2M
						10/24/2006	GW		METAL	SW 7199		Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	J257-01	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Manganese	ND <0.01	mg/L	0.01	0.0005	J257-01	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Calcium	35.5	mg/L	1	0.05	J257-01	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Iron	ND <0.5	mg/L	0.5	0.05	J257-01	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Magnesium	6.06	mg/L	1	0.05	J257-01	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Potassium	2.64	mg/L	1	0.05	J257-01	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Sodium	35.1	mg/L	1	0.05	J257-01	EMXT	CH2M

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-10	DOM/ACT			Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-06	EMXT	CH2M		
				01/31/2006	GW		ANION	EPA 300.0	Chloride	45.2	mg/L	5	1	B004-06	EMXT	CH2M			
				01/31/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	B004-06	EMXT	CH2M			
				01/31/2006	GW		ANION	EPA 300.0	Sulfate	43.2	mg/L	5	2.5	B004-06	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-06	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	126	mg/L	5	1	B004-06	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	126	mg/L	5	1	B004-06	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-06	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	310	mg/L	10	5	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Arsenic	0.00812	mg/L	0.005	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Barium	0.115	mg/L	0.001	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951327-006	TLI	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	0.7	µg/L	0.2	0.0184	951327-006	TLI	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Manganese	0.00178	mg/L	0.001	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Molybdenum	0.00725	mg/L	0.005	0.001	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-06	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	B004-06	EMXT	CH2M			
				01/31/2006	GW			Metals General	SW 6020A	Calcium	32	mg/L	1	0.05	B004-06	EMXT	CH2M		
				01/31/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-06	EMXT	CH2M		
				01/31/2006	GW			Metals General	SW 6020A	Magnesium	6.87	mg/L	1	0.05	B004-06	EMXT	CH2M		
				01/31/2006	GW			Metals General	SW 6020A	Potassium	3.56	mg/L	1	0.05	B004-06	EMXT	CH2M		
				01/31/2006	GW			Metals General	SW 6020A	Sodium	63.4	mg/L	1	0.05	B004-06	EMXT	CH2M		
						Q02	04/26/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D205-03	EMXT	CH2M
						04/26/2006	GW		ANION	EPA 300.0	Chloride	47.2	mg/L	5	1	D205-03	EMXT	CH2M	
				04/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	D205-03	EMXT	CH2M			
				04/26/2006	GW		ANION	EPA 300.0	Sulfate	44.5	mg/L	5	2.5	D205-03	EMXT	CH2M			
				04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D205-03	EMXT	CH2M			
				04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	135	mg/L	5	1	D205-03	EMXT	CH2M			

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

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Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-10	DOM/ACT			Q02	04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	135	mg/L	5	1	D205-03	EMXT	CH2M				
					04/26/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D205-03	EMXT	CH2M				
					04/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	350	mg/L	10	5	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Arsenic	0.0081	mg/L	0.005	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Barium	0.121	mg/L	0.001	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Chromium	2.19	µg/L	1	0.5	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	0.88	µg/L	0.2	0.1	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Molybdenum	0.00796	mg/L	0.005	0.001	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D205-03	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D205-03	EMXT	CH2M				
				04/26/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D205-03	EMXT	CH2M					
				04/26/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	D205-03	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Calcium	32.7	mg/L	1	0.05	D205-03	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D205-03	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Magnesium	7.1	mg/L	1	0.05	D205-03	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Potassium	3.45	mg/L	1	0.05	D205-03	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Sodium	65	mg/L	1	0.05	D205-03	EMXT	CH2M					
				Q03					07/26/2006	GW		ANION	EPA 300.0	Chloride	41.3	mg/L	5	1	G182-03	EMXT	CH2M
									07/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G182-03	EMXT	CH2M
									07/26/2006	GW		ANION	EPA 300.0	Sulfate	36.8	mg/L	5	2.5	G182-03	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-03	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	128	mg/L	5	1	G182-03	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	128	mg/L	5	1	G182-03	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	335	mg/L	10	5	G182-03	EMXT	CH2M
									07/26/2006	GW		METAL	SW 6020A	Arsenic	0.012	mg/L	0.005	0.0005	G182-03	EMXT	CH2M
07/26/2006	GW		METAL						SW 6020A	Chromium	ND <1	µg/L	1	0.5	G182-03	EMXT	CH2M				
07/26/2006	GW		METAL						SW 7199	Hexavalent chromium	0.247 J	µg/L	0.2	0.1	G182-03	EMXT	CH2M				
07/26/2006	GW		METAL						SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	G182-03	EMXT	CH2M				
07/26/2006	GW		Metals General						SW 6020A	Calcium	26.2	mg/L	1	0.05	G182-03	EMXT	CH2M				

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-10	DOM/ACT			Q03	07/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-03	EMXT	CH2M		
					07/26/2006	GW		Metals General	SW 6020A	Magnesium	6.31	mg/L	1	0.05	G182-03	EMXT	CH2M		
					07/26/2006	GW			Metals General	SW 6020A	Potassium	3.49	mg/L	1	0.05	G182-03	EMXT	CH2M	
					07/26/2006	GW			Metals General	SW 6020A	Sodium	58.7	mg/L	1	0.05	G182-03	EMXT	CH2M	
					Q04	10/24/2006	GW		ANION	EPA 300.0		Chloride	53.7	mg/L	10	2	J257-02	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0		Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	J257-02	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0		Sulfate	51.8	mg/L	10	5	J257-02	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 310.1		Alkalinity, bicarb as CaCO3	125	mg/L	5	1	J257-02	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 310.1		Alkalinity, total as CaCO3	125	mg/L	5	1	J257-02	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 160.1		Total dissolved solids	400	mg/L	10	5	J257-02	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Arsenic	0.0063	mg/L	0.005	0.0005	J257-02	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Chromium	2.44	µg/L	1	0.5	J257-02	EMXT	CH2M
						10/24/2006	GW		METAL	SW 7199		Hexavalent chromium	1.37	µg/L	0.2	0.1	J257-02	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Manganese	ND <0.01	mg/L	0.01	0.0005	J257-02	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Calcium	35.2	mg/L	1	0.05	J257-02	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Iron	ND <0.5	mg/L	0.5	0.05	J257-02	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Magnesium	6.59	mg/L	1	0.05	J257-02	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Potassium	4	mg/L	1	0.05	J257-02	EMXT	CH2M
						10/24/2006	GW		Metals General	SW 6020A		Sodium	61.9	mg/L	1	0.05	J257-02	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-12	DOM/ACT	86-246		Q01	01/30/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	A174-02	EMXT	CH2M					
					01/30/2006	GW		ANION	EPA 300.0	Chloride	51.8	mg/L	5	1	A174-02	EMXT	CH2M					
					01/30/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	5.7	mg/L	2.5	0.25	A174-02	EMXT	CH2M					
					01/30/2006	GW		ANION	EPA 300.0	Sulfate	74.1	mg/L	2.5	1.25	A174-02	EMXT	CH2M					
					01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	A174-02	EMXT	CH2M					
					01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	185	mg/L	5	1	A174-02	EMXT	CH2M					
					01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	185	mg/L	5	1	A174-02	EMXT	CH2M					
					01/30/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	A174-02	EMXT	CH2M					
					01/30/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	465	mg/L	10	5	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Barium	0.118	mg/L	0.001	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951265-002	TLI	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 7199	Hexavalent chromium	0.224	µg/L	0.2	0.0184	951265-002	TLI	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Manganese	0.0062	mg/L	0.001	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	A174-02	EMXT	CH2M					
					01/30/2006	GW		METAL	SW 6020A	Zinc	0.062	mg/L	0.02	0.005	A174-02	EMXT	CH2M					
					01/30/2006	GW		Metals General	SW 6020A	Calcium	72.8	mg/L	1	0.05	A174-02	EMXT	CH2M					
					01/30/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	A174-02	EMXT	CH2M					
					01/30/2006	GW		Metals General	SW 6020A	Magnesium	13.2	mg/L	1	0.05	A174-02	EMXT	CH2M					
					01/30/2006	GW		Metals General	SW 6020A	Potassium	3.29	mg/L	1	0.05	A174-02	EMXT	CH2M					
					01/30/2006	GW		Metals General	SW 6020A	Sodium	60.4	mg/L	1	0.05	A174-02	EMXT	CH2M					
					Q02					04/24/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D180-04	EMXT	CH2M
										04/24/2006	GW		ANION	EPA 300.0	Chloride	56.7	mg/L	5	1	D180-04	EMXT	CH2M
04/24/2006	GW		ANION	EPA 300.0						Nitrate as Nitrogen	5.83	mg/L	2.5	0.25	D180-04	EMXT	CH2M					
04/24/2006	GW		ANION	EPA 300.0						Sulfate	76.9	mg/L	2.5	1.25	D180-04	EMXT	CH2M					
04/24/2006	GW		GENERAL	EPA 310.1						Alkalinity, as carbonate	ND <5	mg/L	5	1	D180-04	EMXT	CH2M					
04/24/2006	GW		GENERAL	EPA 310.1						Alkalinity, bicarb as CaCO3	203	mg/L	5	1	D180-04	EMXT	CH2M					

Notes:

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Sample Matrix: GW = Groundwater

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-12	DOM/ACT	86-246		Q02	04/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	203	mg/L	5	1	D180-04	EMXT	CH2M				
					04/24/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D180-04	EMXT	CH2M				
					04/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	480	mg/L	10	5	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Barium	0.134	mg/L	0.001	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 7199	Hexavalent chromium	0.457	µg/L	0.2	0.1	D180-04R	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Manganese	0.00475	mg/L	0.001	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D180-04	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D180-04	EMXT	CH2M				
				04/24/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D180-04	EMXT	CH2M					
				04/24/2006	GW		METAL	SW 6020A	Zinc	0.0462	mg/L	0.02	0.005	D180-04	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Calcium	79.9	mg/L	1	0.05	D180-04	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D180-04	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Magnesium	13.8	mg/L	1	0.05	D180-04	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Potassium	3.03	mg/L	1	0.05	D180-04	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Sodium	63.2	mg/L	1	0.05	D180-04	EMXT	CH2M					
				Q03					07/24/2006	GW		ANION	EPA 300.0	Chloride	61.5	mg/L	5	1	G152-06	EMXT	CH2M
									07/24/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	6.14	mg/L	2.5	0.25	G152-06	EMXT	CH2M
									07/24/2006	GW		ANION	EPA 300.0	Sulfate	82.8	mg/L	2.5	1.25	G152-06	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	196	mg/L	5	1	G152-06	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	196	mg/L	5	1	G152-06	EMXT	CH2M
									07/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	505	mg/L	10	5	G152-06	EMXT	CH2M
									07/24/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G152-06	EMXT	CH2M
									07/24/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	G152-06	EMXT	CH2M
07/24/2006	GW		METAL						SW 7199	Hexavalent chromium	0.445	µg/L	0.2	0.1	G152-06	EMXT	CH2M				
07/24/2006	GW		METAL						SW 6020A	Manganese	0.00219	mg/L	0.001	0.0005	G152-06	EMXT	CH2M				
07/24/2006	GW		Metals General						SW 6020A	Calcium	80.4	mg/L	1	0.05	G152-06	EMXT	CH2M				
07/24/2006	GW		Metals General						SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G152-06	EMXT	CH2M				

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Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-12	DOM/ACT	86-246		Q03	07/24/2006	GW		Metals General	SW 6020A	Magnesium	14.7	mg/L	1	0.05	G152-06	EMXT	CH2M
					07/24/2006	GW		Metals General	SW 6020A	Potassium	3.46	mg/L	1	0.05	G152-06	EMXT	CH2M
					07/24/2006	GW		Metals General	SW 6020A	Sodium	64.2	mg/L	1	0.05	G152-06	EMXT	CH2M
				Q04	10/23/2006	GW		ANION	EPA 300.0	Chloride	56.2	mg/L	5	1	J236-06	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	5.9	mg/L	0.5	0.05	J236-06	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0	Sulfate	74.2	mg/L	5	2.5	J236-06	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	185	mg/L	5	1	J236-06	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	185	mg/L	5	1	J236-06	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	425	mg/L	10	5	J236-06	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	J236-06	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	J236-06	EMXT	CH2M
					10/23/2006	GW		METAL	SW 7199	Hexavalent chromium	0.335 J	µg/L	0.2	0.1	J236-06	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J236-06	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Calcium	76.3	mg/L	1	0.05	J236-06	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J236-06	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Magnesium	13	mg/L	1	0.05	J236-06	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Potassium	3.36	mg/L	1	0.05	J236-06	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Sodium	60.2	mg/L	1	0.05	J236-06	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-13	AGR/ACT			Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-04	EMXT	CH2M		
				01/31/2006	GW		ANION	EPA 300.0	Chloride	73.9	mg/L	5	1	B004-04	EMXT	CH2M			
				01/31/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	12.6	mg/L	5	0.5	B004-04	EMXT	CH2M			
				01/31/2006	GW		ANION	EPA 300.0	Sulfate	78.2	mg/L	5	2.5	B004-04	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-04	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	280	mg/L	5	1	B004-04	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	280	mg/L	5	1	B004-04	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-04	EMXT	CH2M			
				01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	625	mg/L	10	5	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Barium	0.169	mg/L	0.001	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951327-004	TLI	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	0.208	µg/L	0.2	0.0184	951327-004	TLI	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Manganese	0.0481	mg/L	0.001	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-04	EMXT	CH2M			
				01/31/2006	GW		METAL	SW 6020A	Zinc	0.519	mg/L	0.02	0.005	B004-04	EMXT	CH2M			
				01/31/2006	GW		Metals General	SW 6020A	Calcium	99.3	mg/L	1	0.05	B004-04	EMXT	CH2M			
				01/31/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-04	EMXT	CH2M			
				01/31/2006	GW		Metals General	SW 6020A	Magnesium	18.3	mg/L	1	0.05	B004-04	EMXT	CH2M			
				01/31/2006	GW		Metals General	SW 6020A	Potassium	4.24	mg/L	1	0.05	B004-04	EMXT	CH2M			
				01/31/2006	GW		Metals General	SW 6020A	Sodium	76.7	mg/L	1	0.05	B004-04	EMXT	CH2M			
						Q02	04/27/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D215-01	EMXT	CH2M
						04/27/2006	GW		ANION	EPA 300.0	Chloride	71.7	mg/L	5	1	D215-01	EMXT	CH2M	
						04/27/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	12.1	mg/L	2.5	0.25	D215-01	EMXT	CH2M	
				04/27/2006	GW		ANION	EPA 300.0	Sulfate	79.9	mg/L	2.5	1.25	D215-01	EMXT	CH2M			
				04/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D215-01	EMXT	CH2M			
				04/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	288	mg/L	5	1	D215-01	EMXT	CH2M			

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-13	AGR/ACT			Q02	04/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	288	mg/L	5	1	D215-01	EMXT	CH2M				
					04/27/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D215-01	EMXT	CH2M				
					04/27/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	660	mg/L	10	5	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Barium	0.19	mg/L	0.001	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 7199	Hexavalent chromium	0.223	µg/L	0.2	0.1	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Manganese	0.00876	mg/L	0.001	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D215-01	EMXT	CH2M				
					04/27/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D215-01	EMXT	CH2M				
				04/27/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D215-01	EMXT	CH2M					
				04/27/2006	GW		METAL	SW 6020A	Zinc	0.185	mg/L	0.02	0.005	D215-01	EMXT	CH2M					
				04/27/2006	GW		Metals General	SW 6020A	Calcium	109	mg/L	1	0.05	D215-01	EMXT	CH2M					
				04/27/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D215-01	EMXT	CH2M					
				04/27/2006	GW		Metals General	SW 6020A	Magnesium	19.3	mg/L	1	0.05	D215-01	EMXT	CH2M					
				04/27/2006	GW		Metals General	SW 6020A	Potassium	4.46	mg/L	1	0.05	D215-01	EMXT	CH2M					
				04/27/2006	GW		Metals General	SW 6020A	Sodium	81.9	mg/L	1	0.05	D215-01	EMXT	CH2M					
				Q03					07/25/2006	GW		ANION	EPA 300.0	Chloride	76.2	mg/L	10	2	G165-01	EMXT	CH2M
									07/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	14.2	mg/L	5	0.5	G165-01	EMXT	CH2M
									07/25/2006	GW		ANION	EPA 300.0	Sulfate	71.7	mg/L	10	5	G165-01	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-01	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	224	mg/L	5	1	G165-01	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	224	mg/L	5	1	G165-01	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	575	mg/L	10	5	G165-01	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G165-01	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	G165-01	EMXT	CH2M
									07/25/2006	GW		METAL	SW 7199	Hexavalent chromium	0.307	µg/L	0.2	0.1	G165-01	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	G165-01	EMXT	CH2M
07/25/2006	GW		Metals General						SW 6020A	Calcium	89.3	mg/L	1	0.05	G165-01	EMXT	CH2M				

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-13	AGR/ACT			Q03	07/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-01	EMXT	CH2M
				07/25/2006	GW		Metals General	SW 6020A	Magnesium	16.4	mg/L	1	0.05	G165-01	EMXT	CH2M	
				07/25/2006	GW		Metals General	SW 6020A	Potassium	4.33	mg/L	1	0.05	G165-01	EMXT	CH2M	
				07/25/2006	GW		Metals General	SW 6020A	Sodium	75.5	mg/L	1	0.05	G165-01	EMXT	CH2M	

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-14	DOM/ACT	80-195		Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-07	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Chloride	37.6	mg/L	2.5	0.5	B004-07	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	B004-07	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Sulfate	41.6	mg/L	2.5	1.25	B004-07	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-07	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	131	mg/L	5	1	B004-07	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	131	mg/L	5	1	B004-07	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-07	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	305	mg/L	10	5	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Arsenic	0.0185	mg/L	0.005	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Barium	0.0873	mg/L	0.001	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951327-007	TLI	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.0184	951327-007	TLI	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Manganese	0.0166	mg/L	0.001	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-07	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Zinc	0.108	mg/L	0.02	0.005	B004-07	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Calcium	35.3	mg/L	1	0.05	B004-07	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-07	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Magnesium	7.57	mg/L	1	0.05	B004-07	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Potassium	2.35	mg/L	1	0.05	B004-07	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Sodium	52.6	mg/L	1	0.05	B004-07	EMXT	CH2M					
					BGS-14	DOM/ACT	80-195		Q02	04/26/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D205-05	EMXT	CH2M
										04/26/2006	GW		ANION	EPA 300.0	Chloride	39.2	mg/L	2.5	0.5	D205-05	EMXT	CH2M
04/26/2006	GW		ANION	EPA 300.0						Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	D205-05	EMXT	CH2M					
04/26/2006	GW		ANION	EPA 300.0						Sulfate	42.5	mg/L	2.5	1.25	D205-05	EMXT	CH2M					
04/26/2006	GW		GENERAL	EPA 310.1						Alkalinity, as carbonate	ND <5	mg/L	5	1	D205-05	EMXT	CH2M					
04/26/2006	GW		GENERAL	EPA 310.1						Alkalinity, bicarb as CaCO3	135	mg/L	5	1	D205-05	EMXT	CH2M					

Notes:

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Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-14	DOM/ACT	80-195		Q02	04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	135	mg/L	5	1	D205-05	EMXT	CH2M				
					04/26/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D205-05	EMXT	CH2M				
					04/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	355	mg/L	10	5	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Arsenic	0.0174	mg/L	0.005	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Barium	0.0909	mg/L	0.001	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	0.211	µg/L	0.2	0.1	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Manganese	0.0073	mg/L	0.001	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D205-05	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Zinc	0.0566	mg/L	0.02	0.005	D205-05	EMXT	CH2M				
				04/26/2006	GW		Metals General	SW 6020A	Calcium	33.6	mg/L	1	0.05	D205-05	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D205-05	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Magnesium	7.53	mg/L	1	0.05	D205-05	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Potassium	2.06	mg/L	1	0.05	D205-05	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Sodium	50.3	mg/L	1	0.05	D205-05	EMXT	CH2M					
				Q03					07/26/2006	GW		ANION	EPA 300.0	Chloride	38.7	mg/L	2.5	0.5	G182-05	EMXT	CH2M
									07/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G182-05	EMXT	CH2M
									07/26/2006	GW		ANION	EPA 300.0	Sulfate	41.5	mg/L	2.5	1.25	G182-05	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-05	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	G182-05	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	G182-05	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	340	mg/L	10	5	G182-05	EMXT	CH2M
									07/26/2006	GW		METAL	SW 6020A	Arsenic	0.0196	mg/L	0.005	0.0005	G182-05	EMXT	CH2M
									07/26/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	G182-05	EMXT	CH2M
07/26/2006	GW		METAL						SW 7199	Hexavalent chromium	0.223 J	µg/L	0.2	0.1	G182-05	EMXT	CH2M				
07/26/2006	GW		METAL						SW 6020A	Manganese	0.00415	mg/L	0.001	0.0005	G182-05	EMXT	CH2M				
07/26/2006	GW		Metals General						SW 6020A	Calcium	34.4	mg/L	1	0.05	G182-05	EMXT	CH2M				

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor			
BGS-14	DOM/ACT	80-195		Q03	07/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-05	EMXT	CH2M			
					07/26/2006	GW		Metals General	SW 6020A	Magnesium	7.59	mg/L	1	0.05	G182-05	EMXT	CH2M			
					07/26/2006	GW		Metals General	SW 6020A	Potassium	2.25	mg/L	1	0.05	G182-05	EMXT	CH2M			
					07/26/2006	GW		Metals General	SW 6020A	Sodium	49.9	mg/L	1	0.05	G182-05	EMXT	CH2M			
				Q04	10/23/2006	GW		ANION	EPA 300.0			Chloride		39.4	mg/L	10	2	J236-09	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0			Nitrate as Nitrogen		ND <0.5	mg/L	0.5	0.05	J236-09	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0			Sulfate		44.2	mg/L	10	5	J236-09	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1			Alkalinity, bicarb as CaCO3		133	mg/L	5	1	J236-09	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1			Alkalinity, total as CaCO3		133	mg/L	5	1	J236-09	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 160.1			Total dissolved solids		335	mg/L	10	5	J236-09	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Arsenic		0.0205	mg/L	0.005	0.0005	J236-09	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Chromium		ND <1	µg/L	1	0.5	J236-09	EMXT	CH2M
					10/23/2006	GW		METAL	SW 7199			Hexavalent chromium		0.216	µg/L	0.2	0.1	J236-09	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Manganese		ND <0.01	mg/L	0.01	0.0005	J236-09	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Calcium		36.8	mg/L	1	0.05	J236-09	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Iron		ND <0.5	mg/L	0.5	0.05	J236-09	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Magnesium		7.47	mg/L	1	0.05	J236-09	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Potassium		2.34	mg/L	1	0.05	J236-09	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Sodium		52.1	mg/L	1	0.05	J236-09	EMXT	CH2M

Notes:

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Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-15	DOM/ACT	90-120		Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-08	EMXT	CH2M	
					01/31/2006	GW		ANION	EPA 300.0	Chloride	131	mg/L	10	2	B004-08	EMXT	CH2M	
					01/31/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.52	mg/L	0.5	0.05	B004-08	EMXT	CH2M	
					01/31/2006	GW		ANION	EPA 300.0	Sulfate	119	mg/L	10	5	B004-08	EMXT	CH2M	
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-08	EMXT	CH2M	
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	116	mg/L	5	1	B004-08	EMXT	CH2M	
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	116	mg/L	5	1	B004-08	EMXT	CH2M	
					01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-08	EMXT	CH2M	
					01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	580	mg/L	10	5	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Arsenic	0.011	mg/L	0.005	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Barium	0.069	mg/L	0.001	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951327-008	TLI	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.0184	951327-008	TLI	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Manganese	0.00382	mg/L	0.001	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Molybdenum	0.012	mg/L	0.005	0.001	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-08	EMXT	CH2M	
					01/31/2006	GW		METAL	SW 6020A	Zinc	0.0706	mg/L	0.02	0.005	B004-08	EMXT	CH2M	
					01/31/2006	GW		Metals General	SW 6020A	Calcium	60.4	mg/L	1	0.05	B004-08	EMXT	CH2M	
					01/31/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-08	EMXT	CH2M	
					01/31/2006	GW		Metals General	SW 6020A	Magnesium	14	mg/L	1	0.05	B004-08	EMXT	CH2M	
					01/31/2006	GW		Metals General	SW 6020A	Potassium	4.45	mg/L	1	0.05	B004-08	EMXT	CH2M	
					01/31/2006	GW		Metals General	SW 6020A	Sodium	116	mg/L	1	0.05	B004-08	EMXT	CH2M	
					01/31/2006	GW		Dup	ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-09	EMXT	CH2M
					01/31/2006	GW		Dup	ANION	EPA 300.0	Chloride	129	mg/L	10	2	B004-09	EMXT	CH2M
					01/31/2006	GW		Dup	ANION	EPA 300.0	Nitrate as Nitrogen	1.52	mg/L	0.5	0.05	B004-09	EMXT	CH2M
					01/31/2006	GW		Dup	ANION	EPA 300.0	Sulfate	120	mg/L	10	5	B004-09	EMXT	CH2M
					01/31/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-09	EMXT	CH2M
					01/31/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	112	mg/L	5	1	B004-09	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-15	DOM/ACT	90-120		Q01	01/31/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	112	mg/L	5	1	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	GENERAL	EPA 160.1	Total dissolved solids	565	mg/L	10	5	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Arsenic	0.0108	mg/L	0.005	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Barium	0.0655	mg/L	0.001	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951327-009	TLI	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.0184	951327-009	TLI	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Manganese	0.00399	mg/L	0.001	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Molybdenum	0.0111	mg/L	0.005	0.001	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	METAL	SW 6020A	Zinc	0.0602	mg/L	0.02	0.005	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	Metals General	SW 6020A	Calcium	56.2	mg/L	1	0.05	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	Metals General	SW 6020A	Magnesium	13.1	mg/L	1	0.05	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	Metals General	SW 6020A	Potassium	4.21	mg/L	1	0.05	B004-09	EMXT	CH2M					
					01/31/2006	GW	Dup	Metals General	SW 6020A	Sodium	109	mg/L	1	0.05	B004-09	EMXT	CH2M					
					Q02					04/26/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D205-04	EMXT	CH2M
										04/26/2006	GW		ANION	EPA 300.0	Chloride	130	mg/L	10	2	D205-04	EMXT	CH2M
										04/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	0.936	mg/L	0.5	0.05	D205-04	EMXT	CH2M
										04/26/2006	GW		ANION	EPA 300.0	Sulfate	127	mg/L	10	5	D205-04	EMXT	CH2M
										04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D205-04	EMXT	CH2M
										04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	118	mg/L	5	1	D205-04	EMXT	CH2M
										04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	118	mg/L	5	1	D205-04	EMXT	CH2M
										04/26/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D205-04	EMXT	CH2M
										04/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	640	mg/L	10	5	D205-04	EMXT	CH2M
04/26/2006	GW		METAL	SW 6020A						Antimony	ND <0.001	mg/L	0.001	0.0005	D205-04	EMXT	CH2M					
04/26/2006	GW		METAL	SW 6020A						Arsenic	0.0124	mg/L	0.005	0.0005	D205-04	EMXT	CH2M					
04/26/2006	GW		METAL	SW 6020A						Barium	0.0623	mg/L	0.001	0.0005	D205-04	EMXT	CH2M					

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Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-15	DOM/ACT	90-120		Q02	04/26/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Manganese	0.00384	mg/L	0.001	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Molybdenum	0.0143	mg/L	0.005	0.001	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D205-04	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Zinc	0.0451	mg/L	0.02	0.005	D205-04	EMXT	CH2M				
					04/26/2006	GW		Metals General	SW 6020A	Calcium	55.5	mg/L	1	0.05	D205-04	EMXT	CH2M				
					04/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D205-04	EMXT	CH2M				
					04/26/2006	GW		Metals General	SW 6020A	Magnesium	13.9	mg/L	1	0.05	D205-04	EMXT	CH2M				
					04/26/2006	GW		Metals General	SW 6020A	Potassium	4.2	mg/L	1	0.05	D205-04	EMXT	CH2M				
				04/26/2006	GW		Metals General	SW 6020A	Sodium	117	mg/L	1	0.05	D205-04	EMXT	CH2M					
				Q03	07/25/2006	GW		ANION	EPA 300.0			ANION		Chloride	130	mg/L	10	2	G165-11	EMXT	CH2M
					07/25/2006	GW		ANION	EPA 300.0			ANION		Nitrate as Nitrogen	0.791	mg/L	0.5	0.05	G165-11	EMXT	CH2M
					07/25/2006	GW		ANION	EPA 300.0			ANION		Sulfate	129	mg/L	10	5	G165-11	EMXT	CH2M
					07/25/2006	GW		GENERAL	EPA 310.1			GENERAL		Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-11	EMXT	CH2M
					07/25/2006	GW		GENERAL	EPA 310.1			GENERAL		Alkalinity, bicarb as CaCO3	117	mg/L	5	1	G165-11	EMXT	CH2M
					07/25/2006	GW		GENERAL	EPA 310.1			GENERAL		Alkalinity, total as CaCO3	117	mg/L	5	1	G165-11	EMXT	CH2M
					07/25/2006	GW		GENERAL	EPA 160.1			GENERAL		Total dissolved solids	630	mg/L	10	5	G165-11	EMXT	CH2M
					07/25/2006	GW		METAL	SW 6020A			METAL		Arsenic	0.0133	mg/L	0.005	0.0005	G165-11	EMXT	CH2M
					07/25/2006	GW		METAL	SW 6020A			METAL		Chromium	ND <1	µg/L	1	0.5	G165-11	EMXT	CH2M
					07/25/2006	GW		METAL	SW 7199			METAL		Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	G165-11	EMXT	CH2M
					07/25/2006	GW		METAL	SW 6020A			METAL		Manganese	ND <0.01	mg/L	0.01	0.0005	G165-11	EMXT	CH2M
					07/25/2006	GW		Metals General	SW 6020A			Metals General		Calcium	51.1	mg/L	1	0.05	G165-11	EMXT	CH2M
					07/25/2006	GW		Metals General	SW 6020A			Metals General		Iron	ND <0.5	mg/L	0.5	0.05	G165-11	EMXT	CH2M
					07/25/2006	GW		Metals General	SW 6020A			Metals General		Magnesium	12.9	mg/L	1	0.05	G165-11	EMXT	CH2M
07/25/2006	GW		Metals General		SW 6020A			Metals General		Potassium	4.3	mg/L	1	0.05	G165-11	EMXT	CH2M				
07/25/2006	GW		Metals General	SW 6020A			Metals General		Sodium	108	mg/L	1	0.05	G165-11	EMXT	CH2M					
Q04					10/23/2006	GW		ANION	EPA 300.0	Chloride	132	mg/L	10	2	J236-07	EMXT	CH2M				

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

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Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-15	DOM/ACT	90-120		Q04	10/23/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	0.901	mg/L	0.5	0.05	J236-07	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0	Sulfate	131	mg/L	10	5	J236-07	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	115	mg/L	5	1	J236-07	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	115	mg/L	5	1	J236-07	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	580	mg/L	10	5	J236-07	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A	Arsenic	0.0132	mg/L	0.005	0.0005	J236-07	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	J236-07	EMXT	CH2M
					10/23/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	J236-07	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J236-07	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Calcium	54.2	mg/L	1	0.05	J236-07	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J236-07	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Magnesium	12.6	mg/L	1	0.05	J236-07	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Potassium	4.4	mg/L	1	0.05	J236-07	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A	Sodium	110	mg/L	1	0.05	J236-07	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-16	DOM/ACT	100-200		Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-02	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Chloride	132	mg/L	25	5	B004-02	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.66	mg/L	0.5	0.05	B004-02	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Sulfate	187	mg/L	25	12.5	B004-02	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-02	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	116	mg/L	5	1	B004-02	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	116	mg/L	5	1	B004-02	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-02	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	750	mg/L	10	5	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Arsenic	0.00602	mg/L	0.005	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Barium	0.0633	mg/L	0.001	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Chromium	1.36	µg/L	1	0.075	951327-002	TLI	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	1.35	µg/L	0.2	0.0184	951327-002	TLI	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Molybdenum	0.00531	mg/L	0.005	0.001	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-02	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Zinc	0.0301	mg/L	0.02	0.005	B004-02	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Calcium	85.9	mg/L	1	0.05	B004-02	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-02	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Magnesium	16.4	mg/L	1	0.05	B004-02	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Potassium	5.64	mg/L	1	0.05	B004-02	EMXT	CH2M					
					01/31/2006	GW		Metals General	SW 6020A	Sodium	103	mg/L	1	0.05	B004-02	EMXT	CH2M					
					Q02					04/24/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D180-02	EMXT	CH2M
										04/24/2006	GW		ANION	EPA 300.0	Chloride	140	mg/L	10	2	D180-02	EMXT	CH2M
04/24/2006	GW		ANION	EPA 300.0						Nitrate as Nitrogen	1.59	mg/L	0.5	0.05	D180-02	EMXT	CH2M					
04/24/2006	GW		ANION	EPA 300.0						Sulfate	185	mg/L	10	5	D180-02	EMXT	CH2M					
04/24/2006	GW		GENERAL	EPA 310.1						Alkalinity, as carbonate	ND <5	mg/L	5	1	D180-02	EMXT	CH2M					
04/24/2006	GW		GENERAL	EPA 310.1						Alkalinity, bicarb as CaCO3	118	mg/L	5	1	D180-02	EMXT	CH2M					

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Sample Matrix: GW = Groundwater

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-16	DOM/ACT	100-200		Q02	04/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	118	mg/L	5	1	D180-02	EMXT	CH2M				
					04/24/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D180-02	EMXT	CH2M				
					04/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	735	mg/L	10	5	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Arsenic	0.00672	mg/L	0.005	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Barium	0.0662	mg/L	0.001	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Chromium	2.05	µg/L	1	0.5	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 7199	Hexavalent chromium	1.77	µg/L	0.2	0.1	D180-02R	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Manganese	0.00144	mg/L	0.001	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Molybdenum	0.00629	mg/L	0.005	0.001	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D180-02	EMXT	CH2M				
					04/24/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D180-02	EMXT	CH2M				
				04/24/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D180-02	EMXT	CH2M					
				04/24/2006	GW		METAL	SW 6020A	Zinc	0.0348	mg/L	0.02	0.005	D180-02	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Calcium	87.7	mg/L	1	0.05	D180-02	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D180-02	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Magnesium	15.8	mg/L	1	0.05	D180-02	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Potassium	5.49	mg/L	1	0.05	D180-02	EMXT	CH2M					
				04/24/2006	GW		Metals General	SW 6020A	Sodium	106	mg/L	1	0.05	D180-02	EMXT	CH2M					
				Q03					07/25/2006	GW		ANION	EPA 300.0	Chloride	131	mg/L	10	2	G165-06	EMXT	CH2M
									07/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.53	mg/L	0.5	0.05	G165-06	EMXT	CH2M
									07/25/2006	GW		ANION	EPA 300.0	Sulfate	171	mg/L	10	5	G165-06	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-06	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	123	mg/L	5	1	G165-06	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	123	mg/L	5	1	G165-06	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	710	mg/L	10	5	G165-06	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Arsenic	0.00716	mg/L	0.005	0.0005	G165-06	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Chromium	1.77	µg/L	1	0.5	G165-06	EMXT	CH2M
									07/25/2006	GW		METAL	SW 7199	Hexavalent chromium	1.45	µg/L	0.2	0.1	G165-06	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	G165-06	EMXT	CH2M
07/25/2006	GW		Metals General						SW 6020A	Calcium	76.7	mg/L	1	0.05	G165-06	EMXT	CH2M				

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BGS-16	DOM/ACT	100-200		Q03	07/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-06	EMXT	CH2M			
					07/25/2006	GW		Metals General	SW 6020A	Magnesium	14.7	mg/L	1	0.05	G165-06	EMXT	CH2M			
					07/25/2006	GW		Metals General	SW 6020A	Potassium	5.58	mg/L	1	0.05	G165-06	EMXT	CH2M			
					07/25/2006	GW		Metals General	SW 6020A	Sodium	93.7	mg/L	1	0.05	G165-06	EMXT	CH2M			
				Q04	10/23/2006	GW		ANION	EPA 300.0			Chloride		131	mg/L	50	10	J236-08	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0			Nitrate as Nitrogen		1.58	mg/L	0.5	0.05	J236-08	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0			Sulfate		181	mg/L	50	25	J236-08	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1			Alkalinity, bicarb as CaCO3		113	mg/L	5	1	J236-08	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1			Alkalinity, total as CaCO3		113	mg/L	5	1	J236-08	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 160.1			Total dissolved solids		685	mg/L	10	5	J236-08	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Arsenic		0.0079	mg/L	0.005	0.0005	J236-08	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Chromium		1.77	µg/L	1	0.5	J236-08	EMXT	CH2M
					10/23/2006	GW		METAL	SW 7199			Hexavalent chromium		1.66	µg/L	0.2	0.1	J236-08	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Manganese		ND <0.01	mg/L	0.01	0.0005	J236-08	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Calcium		80.2	mg/L	1	0.05	J236-08	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Iron		ND <0.5	mg/L	0.5	0.05	J236-08	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Magnesium		14.7	mg/L	1	0.05	J236-08	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Potassium		5.83	mg/L	1	0.05	J236-08	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Sodium		95.7	mg/L	1	0.05	J236-08	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-18	DOM/ACT			Q01	02/01/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B015-01	EMXT	CH2M		
				02/01/2006	GW		ANION	EPA 300.0	Chloride	214	mg/L	25	5	B015-01	EMXT	CH2M			
				02/01/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	9.14	mg/L	2.5	0.25	B015-01	EMXT	CH2M			
				02/01/2006	GW		ANION	EPA 300.0	Sulfate	269	mg/L	25	12.5	B015-01	EMXT	CH2M			
				02/01/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B015-01	EMXT	CH2M			
				02/01/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	190	mg/L	5	1	B015-01	EMXT	CH2M			
				02/01/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	190	mg/L	5	1	B015-01	EMXT	CH2M			
				02/01/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B015-01	EMXT	CH2M			
				02/01/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	1150	mg/L	10	5	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Arsenic	0.00956	mg/L	0.005	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Barium	0.0441	mg/L	0.001	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Chromium	1.53	µg/L	1	0.075	951368-001	TLI	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 7199	Hexavalent chromium	1.75	µg/L	0.2	0.0184	951368-001	TLI	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Manganese	0.00112	mg/L	0.001	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	EPA 7470A	Mercury	0.602	µg/L	0.5	0.1	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Molybdenum	0.032	mg/L	0.005	0.001	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B015-01	EMXT	CH2M			
				02/01/2006	GW		METAL	SW 6020A	Zinc	0.106	mg/L	0.02	0.005	B015-01	EMXT	CH2M			
				02/01/2006	GW		Metals General	SW 6020A	Calcium	54.8	mg/L	1	0.05	B015-01	EMXT	CH2M			
				02/01/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B015-01	EMXT	CH2M			
				02/01/2006	GW		Metals General	SW 6020A	Magnesium	25.4	mg/L	1	0.05	B015-01	EMXT	CH2M			
				02/01/2006	GW		Metals General	SW 6020A	Potassium	5.82	mg/L	1	0.05	B015-01	EMXT	CH2M			
				02/01/2006	GW		Metals General	SW 6020A	Sodium	235	mg/L	1	0.05	B015-01	EMXT	CH2M			
						Q02	04/25/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D191-03	EMXT	CH2M
						04/25/2006	GW		ANION	EPA 300.0	Chloride	201	mg/L	25	5	D191-03	EMXT	CH2M	
						04/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	8.72	mg/L	2.5	0.25	D191-03	EMXT	CH2M	
				04/25/2006	GW		ANION	EPA 300.0	Sulfate	219	mg/L	25	12.5	D191-03	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D191-03	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	198	mg/L	5	1	D191-03	EMXT	CH2M			

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-18	DOM/ACT			Q02	04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	198	mg/L	5	1	D191-03	EMXT	CH2M		
				04/25/2006	GW		GENERAL	EPA 350.2		Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D191-03	EMXT	CH2M		
				04/25/2006	GW		GENERAL		EPA 160.1		Total dissolved solids	2390	mg/L	10	5	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Antimony	ND <0.001	mg/L	0.001	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Arsenic	0.00902	mg/L	0.005	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Barium	0.0454	mg/L	0.001	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Beryllium	ND <0.001	mg/L	0.001	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Cadmium	ND <0.001	mg/L	0.001	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Chromium	1.91	µg/L	1	0.5	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Cobalt	ND <0.001	mg/L	0.001	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Copper	ND <0.01	mg/L	0.01	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 7199		Hexavalent chromium	1.61	µg/L	0.2	0.1	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Lead	ND <0.005	mg/L	0.005	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Manganese	ND <0.001	mg/L	0.001	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		EPA 7470A		Mercury	0.587	µg/L	0.5	0.1	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Molybdenum	0.0292	mg/L	0.005	0.001	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Nickel	ND <0.02	mg/L	0.02	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Selenium	ND <0.001	mg/L	0.001	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Thallium	ND <0.001	mg/L	0.001	0.0005	D191-03	EMXT	CH2M	
				04/25/2006	GW		METAL		SW 6020A		Zinc	0.0399 J	mg/L	0.02	0.005	D191-03	EMXT	CH2M	
				04/25/2006	GW		Metals General		SW 6020A		Calcium	57.4	mg/L	1	0.05	D191-03	EMXT	CH2M	
				04/25/2006	GW		Metals General		SW 6020A		Iron	ND <0.5	mg/L	0.5	0.05	D191-03	EMXT	CH2M	
				04/25/2006	GW		Metals General		SW 6020A		Magnesium	27.4	mg/L	1	0.05	D191-03	EMXT	CH2M	
				04/25/2006	GW		Metals General		SW 6020A		Potassium	5.63	mg/L	1	0.05	D191-03	EMXT	CH2M	
				04/25/2006	GW		Metals General		SW 6020A		Sodium	239	mg/L	1	0.05	D191-03	EMXT	CH2M	
						Q03	07/25/2006	GW		ANION	EPA 300.0	Chloride	223	mg/L	20	4	G165-07	EMXT	CH2M
						07/25/2006	GW			ANION	EPA 300.0	Nitrate as Nitrogen	8.3	mg/L	2.5	0.25	G165-07	EMXT	CH2M
						07/25/2006	GW			ANION	EPA 300.0	Sulfate	217	mg/L	20	10	G165-07	EMXT	CH2M
						07/25/2006	GW			GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-07	EMXT	CH2M
						07/25/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	197	mg/L	5	1	G165-07	EMXT	CH2M
						07/25/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	197	mg/L	5	1	G165-07	EMXT	CH2M
						07/25/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	1040	mg/L	10	5	G165-07	EMXT	CH2M
						07/25/2006	GW			METAL	SW 6020A	Arsenic	0.00665	mg/L	0.005	0.0005	G165-07	EMXT	CH2M
						07/25/2006	GW			METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	G165-07	EMXT	CH2M
						07/25/2006	GW			METAL	SW 7199	Hexavalent chromium	0.27	µg/L	0.2	0.1	G165-07	EMXT	CH2M
				07/25/2006	GW			METAL	SW 6020A	Manganese	0.197	mg/L	0.01	0.0005	G165-07	EMXT	CH2M		
				07/25/2006	GW			Metals General	SW 6020A	Calcium	49.5	mg/L	1	0.05	G165-07	EMXT	CH2M		

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-18	DOM/ACT			Q03	07/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-07	EMXT	CH2M		
					07/25/2006	GW		Metals General	SW 6020A	Magnesium	24.6	mg/L	1	0.05	G165-07	EMXT	CH2M		
					07/25/2006	GW			Metals General	SW 6020A	Potassium	5.97	mg/L	1	0.05	G165-07	EMXT	CH2M	
					07/25/2006	GW			Metals General	SW 6020A	Sodium	224	mg/L	1	0.05	G165-07	EMXT	CH2M	
					Q04	10/24/2006	GW		ANION	EPA 300.0		Chloride	201	mg/L	25	5	J257-09	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0		Nitrate as Nitrogen	7.23	mg/L	2.5	0.25	J257-09	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0		Sulfate	225	mg/L	25	12.5	J257-09	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 310.1		Alkalinity, bicarb as CaCO3	180	mg/L	5	1	J257-09	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 310.1		Alkalinity, total as CaCO3	180	mg/L	5	1	J257-09	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 160.1		Total dissolved solids	975	mg/L	10	5	J257-09	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Arsenic	0.00821	mg/L	0.005	0.0005	J257-09	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Chromium	1.19	µg/L	1	0.5	J257-09	EMXT	CH2M
						10/24/2006	GW		METAL	SW 7199		Hexavalent chromium	0.915	µg/L	0.2	0.1	J257-09	EMXT	CH2M
						10/24/2006	GW		METAL	SW 6020A		Manganese	ND <0.01	mg/L	0.01	0.0005	J257-09	EMXT	CH2M
						10/24/2006	GW			Metals General	SW 6020A	Calcium	54.4	mg/L	1	0.05	J257-09	EMXT	CH2M
						10/24/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J257-09	EMXT	CH2M
						10/24/2006	GW			Metals General	SW 6020A	Magnesium	25.2	mg/L	1	0.05	J257-09	EMXT	CH2M
						10/24/2006	GW			Metals General	SW 6020A	Potassium	5.91	mg/L	1	0.05	J257-09	EMXT	CH2M
						10/24/2006	GW			Metals General	SW 6020A	Sodium	218	mg/L	1	0.05	J257-09	EMXT	CH2M

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-19	AGR/ACT			Q02	04/25/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D191-02	EMXT	CH2M		
				04/25/2006	GW		ANION	EPA 300.0	Chloride	298	mg/L	25	5	D191-02	EMXT	CH2M			
				04/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	15.1	mg/L	2.5	0.25	D191-02	EMXT	CH2M			
				04/25/2006	GW		ANION	EPA 300.0	Sulfate	143	mg/L	25	12.5	D191-02	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D191-02	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	349	mg/L	5	1	D191-02	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	349	mg/L	5	1	D191-02	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D191-02	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	1220	mg/L	10	5	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Arsenic	0.00614	mg/L	0.005	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Barium	0.061	mg/L	0.001	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 7199	Hexavalent chromium	0.658	µg/L	0.2	0.1	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Manganese	0.00161	mg/L	0.001	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	EPA 7470A	Mercury	2.29	µg/L	0.5	0.1	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Molybdenum	0.0121	mg/L	0.005	0.001	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D191-02	EMXT	CH2M			
				04/25/2006	GW		METAL	SW 6020A	Zinc	0.0341 J	mg/L	0.02	0.005	D191-02	EMXT	CH2M			
				04/25/2006	GW		Metals General	SW 6020A	Calcium	59.3	mg/L	1	0.05	D191-02	EMXT	CH2M			
				04/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D191-02	EMXT	CH2M			
				04/25/2006	GW		Metals General	SW 6020A	Magnesium	18.7	mg/L	1	0.05	D191-02	EMXT	CH2M			
				04/25/2006	GW		Metals General	SW 6020A	Potassium	5.73	mg/L	1	0.05	D191-02	EMXT	CH2M			
				04/25/2006	GW		Metals General	SW 6020A	Sodium	347	mg/L	1	0.05	D191-02	EMXT	CH2M			
						Q03	07/25/2006	GW		ANION	EPA 300.0	Chloride	264	mg/L	20	4	G165-08	EMXT	CH2M
						07/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	13.4	mg/L	5	0.5	G165-08	EMXT	CH2M	
						07/25/2006	GW		ANION	EPA 300.0	Sulfate	156	mg/L	20	10	G165-08	EMXT	CH2M	
				07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-08	EMXT	CH2M			
				07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	315	mg/L	5	1	G165-08	EMXT	CH2M			
				07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	315	mg/L	5	1	G165-08	EMXT	CH2M			

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-19	AGR/ACT			Q03	07/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	1160	mg/L	10	5	G165-08	EMXT	CH2M	
					07/25/2006	GW		METAL	SW 6020A	Arsenic	0.00897	mg/L	0.005	0.0005	G165-08	EMXT	CH2M	
					07/25/2006	GW		METAL	SW 6020A	Chromium	1.08	µg/L	1	0.5	G165-08	EMXT	CH2M	
					07/25/2006	GW		METAL	SW 7199	Hexavalent chromium	1.03	µg/L	0.2	0.1	G165-08	EMXT	CH2M	
					07/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	G165-08	EMXT	CH2M	
					07/25/2006	GW		Metals General	SW 6020A	Calcium	47.3	mg/L	1	0.05	G165-08	EMXT	CH2M	
					07/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-08	EMXT	CH2M	
					07/25/2006	GW		Metals General	SW 6020A	Magnesium	15.8	mg/L	1	0.05	G165-08	EMXT	CH2M	
					07/25/2006	GW		Metals General	SW 6020A	Potassium	5.9	mg/L	1	0.05	G165-08	EMXT	CH2M	
					07/25/2006	GW		Metals General	SW 6020A	Sodium	348	mg/L	10	0.5	G165-08	EMXT	CH2M	
					Q04	10/24/2006	GW		ANION	EPA 300.0	Chloride	251	mg/L	50	10	J257-10	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	12	mg/L	2.5	0.25	J257-10	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0	Sulfate	162	mg/L	10	5	J257-10	EMXT	CH2M
						10/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	300	mg/L	5	1	J257-10	EMXT	CH2M
				10/24/2006		GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	300	mg/L	5	1	J257-10	EMXT	CH2M	
				10/24/2006		GW		GENERAL	EPA 160.1	Total dissolved solids	1070	mg/L	10	5	J257-10	EMXT	CH2M	
				10/24/2006		GW		METAL	SW 6020A	Arsenic	0.00981	mg/L	0.005	0.0005	J257-10	EMXT	CH2M	
				10/24/2006		GW		METAL	SW 6020A	Chromium	1.14	µg/L	1	0.5	J257-10	EMXT	CH2M	
				10/24/2006		GW		METAL	SW 7199	Hexavalent chromium	1.06	µg/L	0.2	0.1	J257-10	EMXT	CH2M	
				10/24/2006		GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J257-10	EMXT	CH2M	
				10/24/2006		GW		Metals General	SW 6020A	Calcium	43.9	mg/L	1	0.05	J257-10	EMXT	CH2M	
				10/24/2006		GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J257-10	EMXT	CH2M	
				10/24/2006		GW		Metals General	SW 6020A	Magnesium	13.3	mg/L	1	0.05	J257-10	EMXT	CH2M	
				10/24/2006		GW		Metals General	SW 6020A	Potassium	5.47	mg/L	1	0.05	J257-10	EMXT	CH2M	
				10/24/2006		GW		Metals General	SW 6020A	Sodium	284	mg/L	1	0.05	J257-10	EMXT	CH2M	
				10/24/2006		GW	Dup		ANION	EPA 300.0	Chloride	252	mg/L	50	10	J257-06	EMXT	CH2M
				10/24/2006		GW	Dup		ANION	EPA 300.0	Nitrate as Nitrogen	12.2	mg/L	2.5	0.25	J257-06	EMXT	CH2M
				10/24/2006		GW	Dup		ANION	EPA 300.0	Sulfate	172	mg/L	50	25	J257-06	EMXT	CH2M
				10/24/2006		GW	Dup		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	300	mg/L	5	1	J257-06	EMXT	CH2M
				10/24/2006		GW	Dup		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	300	mg/L	5	1	J257-06	EMXT	CH2M
				10/24/2006	GW	Dup		GENERAL	EPA 160.1	Total dissolved solids	1080	mg/L	10	5	J257-06	EMXT	CH2M	
				10/24/2006	GW	Dup		METAL	SW 6020A	Arsenic	0.00954	mg/L	0.005	0.0005	J257-06	EMXT	CH2M	
				10/24/2006	GW	Dup		METAL	SW 6020A	Chromium	1.11	µg/L	1	0.5	J257-06	EMXT	CH2M	
				10/24/2006	GW	Dup		METAL	SW 7199	Hexavalent chromium	1.06	µg/L	0.2	0.1	J257-06	EMXT	CH2M	
10/24/2006	GW	Dup		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J257-06	EMXT	CH2M					
10/24/2006	GW	Dup		Metals General	SW 6020A	Calcium	45	mg/L	1	0.05	J257-06	EMXT	CH2M					
10/24/2006	GW	Dup		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J257-06	EMXT	CH2M					

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-19	AGR/ACT			Q04	10/24/2006	GW	Dup	Metals General	SW 6020A	Magnesium	13.3	mg/L	1	0.05	J257-06	EMXT	CH2M
					10/24/2006	GW	Dup	Metals General	SW 6020A	Potassium	5.57	mg/L	1	0.05	J257-06	EMXT	CH2M
					10/24/2006	GW	Dup	Metals General	SW 6020A	Sodium	290	mg/L	1	0.05	J257-06	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-22	DOM/ACT			Q01	01/30/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	A174-03	EMXT	CH2M	
					01/30/2006	GW		ANION	EPA 300.0	Chloride	20.1	mg/L	2.5	0.5	A174-03	EMXT	CH2M	
					01/30/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	A174-03	EMXT	CH2M	
					01/30/2006	GW		ANION	EPA 300.0	Sulfate	23.4	mg/L	2.5	1.25	A174-03	EMXT	CH2M	
						01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	A174-03	EMXT	CH2M
						01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	140	mg/L	5	1	A174-03	EMXT	CH2M
						01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	140	mg/L	5	1	A174-03	EMXT	CH2M
						01/30/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	A174-03	EMXT	CH2M
						01/30/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	240 J	mg/L	10	5	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Arsenic	0.0062	mg/L	0.005	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Barium	0.105	mg/L	0.001	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951265-003	TLI	CH2M
						01/30/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 7199	Hexavalent chromium	1.12	µg/L	0.2	0.0184	951265-003	TLI	CH2M
						01/30/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Manganese	0.00108	mg/L	0.001	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	A174-03	EMXT	CH2M
						01/30/2006	GW		METAL	SW 6020A	Zinc	0.102 J	mg/L	0.02	0.005	A174-03	EMXT	CH2M
						01/30/2006	GW		Metals General	SW 6020A	Calcium	28.3	mg/L	1	0.05	A174-03	EMXT	CH2M
						01/30/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	A174-03	EMXT	CH2M
						01/30/2006	GW		Metals General	SW 6020A	Magnesium	4.5	mg/L	1	0.05	A174-03	EMXT	CH2M
						01/30/2006	GW		Metals General	SW 6020A	Potassium	2.05	mg/L	1	0.05	A174-03	EMXT	CH2M
						01/30/2006	GW		Metals General	SW 6020A	Sodium	49.2	mg/L	1	0.05	A174-03	EMXT	CH2M
						01/30/2006	GW	Dup	ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	A174-05	EMXT	CH2M
						01/30/2006	GW	Dup	ANION	EPA 300.0	Chloride	20	mg/L	2.5	0.5	A174-05	EMXT	CH2M
						01/30/2006	GW	Dup	ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	A174-05	EMXT	CH2M
						01/30/2006	GW	Dup	ANION	EPA 300.0	Sulfate	23.3	mg/L	2.5	1.25	A174-05	EMXT	CH2M
						01/30/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	A174-05	EMXT	CH2M
						01/30/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	138	mg/L	5	1	A174-05	EMXT	CH2M

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-22	DOM/ACT			Q01	01/30/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	138	mg/L	5	1	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	GENERAL	EPA 160.1	Total dissolved solids	965 J	mg/L	10	5	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Arsenic	0.00588	mg/L	0.005	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Barium	0.107	mg/L	0.001	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951265-005	TLI	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Chromalt	ND <0.001	mg/L	0.001	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 7199	Hexavalent chromium	1.08	µg/L	0.2	0.0184	951265-005	TLI	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Manganese	0.00161	mg/L	0.001	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	METAL	SW 6020A	Zinc	0.128 J	mg/L	0.02	0.005	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	Metals General	SW 6020A	Calcium	29	mg/L	1	0.05	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	Metals General	SW 6020A	Magnesium	4.57	mg/L	1	0.05	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	Metals General	SW 6020A	Potassium	2.09	mg/L	1	0.05	A174-05	EMXT	CH2M					
					01/30/2006	GW	Dup	Metals General	SW 6020A	Sodium	49.7	mg/L	1	0.05	A174-05	EMXT	CH2M					
					Q02					04/25/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D191-04	EMXT	CH2M
										04/25/2006	GW		ANION	EPA 300.0	Chloride	20.8	mg/L	2.5	0.5	D191-04	EMXT	CH2M
										04/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	D191-04	EMXT	CH2M
										04/25/2006	GW		ANION	EPA 300.0	Sulfate	24	mg/L	2.5	1.25	D191-04	EMXT	CH2M
										04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D191-04	EMXT	CH2M
										04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	148	mg/L	5	1	D191-04	EMXT	CH2M
										04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	148	mg/L	5	1	D191-04	EMXT	CH2M
										04/25/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D191-04	EMXT	CH2M
										04/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	90	mg/L	10	5	D191-04	EMXT	CH2M
										04/25/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D191-04	EMXT	CH2M
04/25/2006	GW		METAL	SW 6020A						Arsenic	0.00574	mg/L	0.005	0.0005	D191-04	EMXT	CH2M					
04/25/2006	GW		METAL	SW 6020A						Barium	0.117	mg/L	0.001	0.0005	D191-04	EMXT	CH2M					

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-22	DOM/ACT			Q02	04/25/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Chromium	1.23	µg/L	1	0.5	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 7199	Hexavalent chromium	1.36	µg/L	0.2	0.1	D191-04R	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D191-04	EMXT	CH2M					
					04/25/2006	GW		METAL	SW 6020A	Zinc	0.152 J	mg/L	0.02	0.005	D191-04	EMXT	CH2M					
					04/25/2006	GW		Metals General	SW 6020A	Calcium	29	mg/L	1	0.05	D191-04	EMXT	CH2M					
					04/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D191-04	EMXT	CH2M					
					04/25/2006	GW		Metals General	SW 6020A	Magnesium	4.6	mg/L	1	0.05	D191-04	EMXT	CH2M					
				04/25/2006	GW		Metals General	SW 6020A	Potassium	1.97	mg/L	1	0.05	D191-04	EMXT	CH2M						
				04/25/2006	GW		Metals General	SW 6020A	Sodium	52.4	mg/L	1	0.05	D191-04	EMXT	CH2M						
				Q03	07/24/2006	GW		ANION	EPA 300.0			ANION		Chloride	21	mg/L	2.5	0.5	G152-05	EMXT	CH2M	
					07/24/2006	GW		ANION	EPA 300.0			ANION		Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G152-05	EMXT	CH2M	
					07/24/2006	GW		ANION	EPA 300.0			ANION		Sulfate	26	mg/L	2.5	1.25	G152-05	EMXT	CH2M	
					07/24/2006	GW		GENERAL	EPA 310.1			GENERAL		Alkalinity, bicarb as CaCO3	141	mg/L	5	1	G152-05	EMXT	CH2M	
					07/24/2006	GW		GENERAL	EPA 310.1			GENERAL		Alkalinity, total as CaCO3	141	mg/L	5	1	G152-05	EMXT	CH2M	
					07/24/2006	GW		GENERAL	EPA 160.1			GENERAL		Total dissolved solids	205	mg/L	10	5	G152-05	EMXT	CH2M	
					07/24/2006	GW		METAL	SW 6020A			METAL		Arsenic	0.00631	mg/L	0.005	0.0005	G152-05	EMXT	CH2M	
					07/24/2006	GW		METAL	SW 6020A			METAL		Chromium	ND <1	µg/L	1	0.5	G152-05	EMXT	CH2M	
					07/24/2006	GW		METAL	SW 7199			METAL		Hexavalent chromium	0.813	µg/L	0.2	0.1	G152-05	EMXT	CH2M	
					07/24/2006	GW		METAL	SW 6020A			METAL		Manganese	ND <0.001	mg/L	0.001	0.0005	G152-05	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A			Metals General		Calcium	28.4	mg/L	1	0.05	G152-05	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A			Metals General		Iron	ND <0.5	mg/L	0.5	0.05	G152-05	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A			Metals General		Magnesium	4.46	mg/L	1	0.05	G152-05	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A			Metals General		Potassium	2.08	mg/L	1	0.05	G152-05	EMXT	CH2M	
					07/24/2006	GW		Metals General	SW 6020A			Metals General		Sodium	50.3	mg/L	1	0.05	G152-05	EMXT	CH2M	
					Q04	10/24/2006	GW		ANION	EPA 300.0			ANION		Chloride	21	mg/L	5	1	J257-07	EMXT	CH2M
						10/24/2006	GW		ANION	EPA 300.0			ANION		Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	J257-07	EMXT	CH2M

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-22	DOM/ACT			Q04	10/24/2006	GW		ANION	EPA 300.0	Sulfate	24.1	mg/L	5	2.5	J257-07	EMXT	CH2M	
					10/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	140	mg/L	5	1	J257-07	EMXT	CH2M	
					10/24/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	140	mg/L	5	1	J257-07	EMXT	CH2M
					10/24/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	3290 R	mg/L	10	5	J257-07	EMXT	CH2M
					10/24/2006	GW			METAL	SW 6020A	Arsenic	0.00585	mg/L	0.005	0.0005	J257-07	EMXT	CH2M
					10/24/2006	GW			METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	J257-07	EMXT	CH2M
					10/24/2006	GW			METAL	SW 7199	Hexavalent chromium	0.608	µg/L	0.2	0.1	J257-07	EMXT	CH2M
					10/24/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J257-07	EMXT	CH2M
					10/24/2006	GW			Metals General	SW 6020A	Calcium	27.8	mg/L	1	0.05	J257-07	EMXT	CH2M
					10/24/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J257-07	EMXT	CH2M
					10/24/2006	GW			Metals General	SW 6020A	Magnesium	4.4	mg/L	1	0.05	J257-07	EMXT	CH2M
					10/24/2006	GW			Metals General	SW 6020A	Potassium	2.33	mg/L	1	0.05	J257-07	EMXT	CH2M
					10/24/2006	GW			Metals General	SW 6020A	Sodium	51.9	mg/L	1	0.05	J257-07	EMXT	CH2M

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-23	DOM/ACT	82-187		Q01	01/31/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B004-01	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Chloride	38	mg/L	2.5	0.5	B004-01	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	B004-01	EMXT	CH2M					
					01/31/2006	GW		ANION	EPA 300.0	Sulfate	45.9	mg/L	2.5	1.25	B004-01	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B004-01	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	147	mg/L	5	1	B004-01	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	147	mg/L	5	1	B004-01	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B004-01	EMXT	CH2M					
					01/31/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	325	mg/L	10	5	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Arsenic	0.00821	mg/L	0.005	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Barium	0.0564	mg/L	0.001	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Chromium	1.3	µg/L	1	0.075	951327-001	TLI	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 7199	Hexavalent chromium	1.4	µg/L	0.2	0.0184	951327-001	TLI	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Molybdenum	0.00742	mg/L	0.005	0.001	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B004-01	EMXT	CH2M					
					01/31/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	B004-01	EMXT	CH2M					
					01/31/2006	GW			Metals General	SW 6020A	Calcium	30.1	mg/L	1	0.05	B004-01	EMXT	CH2M				
					01/31/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B004-01	EMXT	CH2M				
					01/31/2006	GW			Metals General	SW 6020A	Magnesium	5.72	mg/L	1	0.05	B004-01	EMXT	CH2M				
					01/31/2006	GW			Metals General	SW 6020A	Potassium	2.71	mg/L	1	0.05	B004-01	EMXT	CH2M				
					01/31/2006	GW			Metals General	SW 6020A	Sodium	61.4	mg/L	1	0.05	B004-01	EMXT	CH2M				
					Q02					04/24/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D180-01	EMXT	CH2M
										04/24/2006	GW		ANION	EPA 300.0	Chloride	37.9	mg/L	5	1	D180-01	EMXT	CH2M
04/24/2006	GW		ANION	EPA 300.0						Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	D180-01	EMXT	CH2M					
04/24/2006	GW		ANION	EPA 300.0						Sulfate	46	mg/L	5	2.5	D180-01	EMXT	CH2M					
04/24/2006	GW		GENERAL	EPA 310.1						Alkalinity, as carbonate	ND <5	mg/L	5	1	D180-01	EMXT	CH2M					
04/24/2006	GW		GENERAL	EPA 310.1						Alkalinity, bicarb as CaCO3	140	mg/L	5	1	D180-01	EMXT	CH2M					

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-23	DOM/ACT	82-187		Q02	04/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	140	mg/L	5	1	D180-01	EMXT	CH2M	
					04/24/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D180-01	EMXT	CH2M	
					04/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	340	mg/L	10	5	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Arsenic	0.00831	mg/L	0.005	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Barium	0.0594	mg/L	0.001	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Chromium	1.63	µg/L	1	0.5	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 7199	Hexavalent chromium	1.57 J	µg/L	0.2	0.1	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Manganese	0.00612 J	mg/L	0.001	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Molybdenum	0.00844	mg/L	0.005	0.001	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D180-01	EMXT	CH2M	
					04/24/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	D180-01	EMXT	CH2M	
					04/24/2006	GW		Metals General	SW 6020A	Calcium	32.7	mg/L	1	0.05	D180-01	EMXT	CH2M	
					04/24/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D180-01	EMXT	CH2M	
					04/24/2006	GW		Metals General	SW 6020A	Magnesium	5.64	mg/L	1	0.05	D180-01	EMXT	CH2M	
					04/24/2006	GW		Metals General	SW 6020A	Potassium	2.58	mg/L	1	0.05	D180-01	EMXT	CH2M	
					04/24/2006	GW		Metals General	SW 6020A	Sodium	66.5	mg/L	1	0.05	D180-01	EMXT	CH2M	
					04/24/2006	GW		Dup	ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	ANION	EPA 300.0	Chloride	38.4	mg/L	5	1	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	ANION	EPA 300.0	Sulfate	46.7	mg/L	5	2.5	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	140	mg/L	5	1	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	140	mg/L	5	1	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	GENERAL	EPA 160.1	Total dissolved solids	350	mg/L	10	5	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	METAL	SW 6020A	Arsenic	0.00845	mg/L	0.005	0.0005	D180-05	EMXT	CH2M
					04/24/2006	GW		Dup	METAL	SW 6020A	Barium	0.0594	mg/L	0.001	0.0005	D180-05	EMXT	CH2M

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BGS-23	DOM/ACT	82-187		Q02	04/24/2006	GW	Dup	METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Chromium	1.48	µg/L	1	0.5	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 7199	Hexavalent chromium	1.48 J	µg/L	0.2	0.1	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Molybdenum	0.00863	mg/L	0.005	0.001	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	Metals General	SW 6020A	Calcium	31.6	mg/L	1	0.05	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	Metals General	SW 6020A	Magnesium	5.88	mg/L	1	0.05	D180-05	EMXT	CH2M				
					04/24/2006	GW	Dup	Metals General	SW 6020A	Potassium	2.57	mg/L	1	0.05	D180-05	EMXT	CH2M				
				04/24/2006	GW	Dup	Metals General	SW 6020A	Sodium	64.1	mg/L	1	0.05	D180-05	EMXT	CH2M					
				Q03					07/25/2006	GW		ANION	EPA 300.0	Chloride	38.1	mg/L	5	1	G165-05	EMXT	CH2M
									07/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G165-05	EMXT	CH2M
									07/25/2006	GW		ANION	EPA 300.0	Sulfate	45.4	mg/L	5	2.5	G165-05	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-05	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	G165-05	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	G165-05	EMXT	CH2M
									07/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	340	mg/L	10	5	G165-05	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Arsenic	0.00853	mg/L	0.005	0.0005	G165-05	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Chromium	1.29	µg/L	1	0.5	G165-05	EMXT	CH2M
									07/25/2006	GW		METAL	SW 7199	Hexavalent chromium	1.27	µg/L	0.2	0.1	G165-05	EMXT	CH2M
									07/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	G165-05	EMXT	CH2M
									07/25/2006	GW		Metals General	SW 6020A	Calcium	29.9	mg/L	1	0.05	G165-05	EMXT	CH2M
									07/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-05	EMXT	CH2M
									07/25/2006	GW		Metals General	SW 6020A	Magnesium	5.72	mg/L	1	0.05	G165-05	EMXT	CH2M
									07/25/2006	GW		Metals General	SW 6020A	Potassium	2.86	mg/L	1	0.05	G165-05	EMXT	CH2M
									07/25/2006	GW		Metals General	SW 6020A	Sodium	61.3	mg/L	1	0.05	G165-05	EMXT	CH2M
07/25/2006	GW	Dup	ANION						EPA 300.0	Chloride	39.2	mg/L	5	1	G165-04	EMXT	CH2M				
07/25/2006	GW	Dup	ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G165-04	EMXT	CH2M									

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-23	DOM/ACT	82-187		Q03	07/25/2006	GW	Dup	ANION	EPA 300.0	Sulfate	46.9	mg/L	5	2.5	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	GENERAL	EPA 160.1	Total dissolved solids	350	mg/L	10	5	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	METAL	SW 6020A	Arsenic	0.0088	mg/L	0.005	0.0005	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	METAL	SW 6020A	Chromium	1.21	µg/L	1	0.5	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	METAL	SW 7199	Hexavalent chromium	1.22	µg/L	0.2	0.1	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Calcium	30.2	mg/L	1	0.05	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Magnesium	5.72	mg/L	1	0.05	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Potassium	2.89	mg/L	1	0.05	G165-04	EMXT	CH2M
					07/25/2006	GW	Dup	Metals General	SW 6020A	Sodium	62.1	mg/L	1	0.05	G165-04	EMXT	CH2M
					Q04	10/24/2006	GW		ANION	EPA 300.0	Chloride	38.7	mg/L	10	2	J257-08	EMXT
				10/24/2006		GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	J257-08	EMXT	CH2M
				10/24/2006		GW		ANION	EPA 300.0	Sulfate	47	mg/L	10	5	J257-08	EMXT	CH2M
				10/24/2006		GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	J257-08	EMXT	CH2M
				10/24/2006		GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	J257-08	EMXT	CH2M
				10/24/2006		GW		GENERAL	EPA 160.1	Total dissolved solids	360	mg/L	10	5	J257-08	EMXT	CH2M
				10/24/2006		GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	J257-08	EMXT	CH2M
				10/24/2006		GW		METAL	SW 6020A	Chromium	2.01	µg/L	1	0.5	J257-08	EMXT	CH2M
				10/24/2006		GW		METAL	SW 7199	Hexavalent chromium	1.94	µg/L	0.2	0.1	J257-08	EMXT	CH2M
				10/24/2006		GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J257-08	EMXT	CH2M
				10/24/2006		GW		Metals General	SW 6020A	Calcium	30.9	mg/L	1	0.05	J257-08	EMXT	CH2M
				10/24/2006		GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J257-08	EMXT	CH2M
				10/24/2006		GW		Metals General	SW 6020A	Magnesium	4.81	mg/L	1	0.05	J257-08	EMXT	CH2M
				10/24/2006		GW		Metals General	SW 6020A	Potassium	2.59	mg/L	1	0.05	J257-08	EMXT	CH2M
				10/24/2006		GW		Metals General	SW 6020A	Sodium	54.5	mg/L	1	0.05	J257-08	EMXT	CH2M

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-24	AGR/ACT			Q01	02/02/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B026-01	EMXT	CH2M		
				02/02/2006	GW		ANION	EPA 300.0	Chloride	29.8	mg/L	2.5	0.5	B026-01	EMXT	CH2M			
				02/02/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.47	mg/L	0.5	0.05	B026-01	EMXT	CH2M			
				02/02/2006	GW		ANION	EPA 300.0	Sulfate	35.4	mg/L	2.5	1.25	B026-01	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B026-01	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	95	mg/L	5	1	B026-01	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	95	mg/L	5	1	B026-01	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B026-01	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	230	mg/L	10	5	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Barium	0.0335	mg/L	0.001	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951421-001	TLI	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.0184	951421-001	TLI	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Manganese	0.0153	mg/L	0.001	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	B026-01	EMXT	CH2M			
				02/02/2006	GW		METAL	Metals General	SW 6020A	Calcium	34.1	mg/L	1	0.05	B026-01	EMXT	CH2M		
				02/02/2006	GW		METAL	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B026-01	EMXT	CH2M		
				02/02/2006	GW		METAL	Metals General	SW 6020A	Magnesium	5.61	mg/L	1	0.05	B026-01	EMXT	CH2M		
				02/02/2006	GW		METAL	Metals General	SW 6020A	Potassium	2.09	mg/L	1	0.05	B026-01	EMXT	CH2M		
				02/02/2006	GW		METAL	Metals General	SW 6020A	Sodium	37.2	mg/L	1	0.05	B026-01	EMXT	CH2M		
					60	Q02	04/26/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D205-10	EMXT	CH2M
							04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	D205-10	EMXT	CH2M
					100		04/26/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D205-09	EMXT	CH2M
					04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	D205-09	EMXT	CH2M		
			140		04/26/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D205-08	EMXT	CH2M		
					04/26/2006	GW		ANION	EPA 300.0	Chloride	28.2	mg/L	2.5	0.5	D205-08	EMXT	CH2M		

Notes:

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Sample Matrix: GW = Groundwater

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor					
BGS-24	AGR/ACT		140	Q02	04/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.15	mg/L	0.5	0.05	D205-08	EMXT	CH2M					
					04/26/2006	GW		ANION	EPA 300.0	Sulfate	34.1	mg/L	2.5	1.25	D205-08	EMXT	CH2M					
					04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D205-08	EMXT	CH2M					
					04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	102	mg/L	5	1	D205-08	EMXT	CH2M					
					04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	102	mg/L	5	1	D205-08	EMXT	CH2M					
					04/26/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D205-08	EMXT	CH2M					
					04/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	265	mg/L	10	5	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Barium	0.0394	mg/L	0.001	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Manganese	0.00609	mg/L	0.001	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D205-08	EMXT	CH2M					
					04/26/2006	GW		METAL	SW 6020A	Zinc	ND <0.02	mg/L	0.02	0.005	D205-08	EMXT	CH2M					
					04/26/2006	GW			Metals General	SW 6020A	Calcium	34.8	mg/L	1	0.05	D205-08	EMXT	CH2M				
					04/26/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D205-08	EMXT	CH2M				
					04/26/2006	GW			Metals General	SW 6020A	Magnesium	6.4	mg/L	1	0.05	D205-08	EMXT	CH2M				
					04/26/2006	GW			Metals General	SW 6020A	Potassium	2.21	mg/L	1	0.05	D205-08	EMXT	CH2M				
					04/26/2006	GW			Metals General	SW 6020A	Sodium	38.3	mg/L	1	0.05	D205-08	EMXT	CH2M				
									Q03	07/27/2006	GW		ANION	EPA 300.0	Chloride	28.8	mg/L	2.5	0.5	G200-01	EMXT	CH2M
										07/27/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	1.19	mg/L	0.5	0.05	G200-01	EMXT	CH2M
										07/27/2006	GW		ANION	EPA 300.0	Sulfate	35.5	mg/L	2.5	1.25	G200-01	EMXT	CH2M
										07/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	96	mg/L	5	1	G200-01	EMXT	CH2M
										07/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	96	mg/L	5	1	G200-01	EMXT	CH2M
										07/27/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	235	mg/L	10	5	G200-01	EMXT	CH2M
07/27/2006	GW		METAL	SW 6020A						Arsenic	ND <0.005	mg/L	0.005	0.0005	G200-01	EMXT	CH2M					
07/27/2006	GW		METAL	SW 6020A						Chromium	ND <1	µg/L	1	0.5	G200-01	EMXT	CH2M					

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-24	AGR/ACT			Q03	07/27/2006	GW		METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	G200-01	EMXT	CH2M	
					07/27/2006	GW		METAL	SW 6020A	Manganese	0.00471	mg/L	0.001	0.0005	G200-01	EMXT	CH2M	
					07/27/2006	GW			Metals General	SW 6020A	Calcium	33.5	mg/L	1	0.05	G200-01	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G200-01	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Magnesium	5.91	mg/L	1	0.05	G200-01	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Potassium	2.08	mg/L	1	0.05	G200-01	EMXT	CH2M
					07/27/2006	GW			Metals General	SW 6020A	Sodium	36.5	mg/L	1	0.05	G200-01	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-25	DOM/ACT	80-400		Q01	01/30/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	A174-04	EMXT	CH2M				
					01/30/2006	GW		ANION	EPA 300.0	Chloride	118	mg/L	10	2	A174-04	EMXT	CH2M				
					01/30/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	10.9	mg/L	2.5	0.25	A174-04	EMXT	CH2M				
					01/30/2006	GW		ANION	EPA 300.0	Sulfate	203	mg/L	10	5	A174-04	EMXT	CH2M				
					01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	A174-04	EMXT	CH2M				
					01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	304	mg/L	5	1	A174-04	EMXT	CH2M				
					01/30/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	304	mg/L	5	1	A174-04	EMXT	CH2M				
					01/30/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	A174-04	EMXT	CH2M				
					01/30/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	250	mg/L	10	5	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Barium	0.0476	mg/L	0.001	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.075	951265-004	TLI	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 7199	Hexavalent chromium	0.477	µg/L	0.2	0.0184	951265-004	TLI	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Manganese	0.00278	mg/L	0.001	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	A174-04	EMXT	CH2M				
					01/30/2006	GW		METAL	SW 6020A	Zinc	0.0403	mg/L	0.02	0.005	A174-04	EMXT	CH2M				
					01/30/2006	GW		Metals General	SW 6020A	Calcium	146	mg/L	1	0.05	A174-04	EMXT	CH2M				
					01/30/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	A174-04	EMXT	CH2M				
					01/30/2006	GW		Metals General	SW 6020A	Magnesium	25.9	mg/L	1	0.05	A174-04	EMXT	CH2M				
					01/30/2006	GW		Metals General	SW 6020A	Potassium	4.13	mg/L	1	0.05	A174-04	EMXT	CH2M				
					01/30/2006	GW		Metals General	SW 6020A	Sodium	120	mg/L	1	0.05	A174-04	EMXT	CH2M				
					Q02				04/26/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D205-02	EMXT	CH2M
									04/26/2006	GW		ANION	EPA 300.0	Chloride	117	mg/L	10	2	D205-02	EMXT	CH2M
04/26/2006	GW		ANION	EPA 300.0					Nitrate as Nitrogen	10.4	mg/L	2.5	0.25	D205-02	EMXT	CH2M					
04/26/2006	GW		ANION	EPA 300.0					Sulfate	189	mg/L	10	5	D205-02	EMXT	CH2M					
04/26/2006	GW		GENERAL	EPA 310.1					Alkalinity, as carbonate	ND <5	mg/L	5	1	D205-02	EMXT	CH2M					
04/26/2006	GW		GENERAL	EPA 310.1					Alkalinity, bicarb as CaCO3	310	mg/L	5	1	D205-02	EMXT	CH2M					

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-25	DOM/ACT	80-400		Q02	04/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	310	mg/L	5	1	D205-02	EMXT	CH2M				
					04/26/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D205-02	EMXT	CH2M				
					04/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	940	mg/L	10	5	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Barium	0.0521	mg/L	0.001	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Chromium	1.2	µg/L	1	0.5	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 7199	Hexavalent chromium	0.767	µg/L	0.2	0.1	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Manganese	0.00192	mg/L	0.001	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D205-02	EMXT	CH2M				
					04/26/2006	GW		METAL	SW 6020A	Zinc	0.0345	mg/L	0.02	0.005	D205-02	EMXT	CH2M				
				04/26/2006	GW		Metals General	SW 6020A	Calcium	155	mg/L	1	0.05	D205-02	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D205-02	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Magnesium	27.3	mg/L	1	0.05	D205-02	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Potassium	4.13	mg/L	1	0.05	D205-02	EMXT	CH2M					
				04/26/2006	GW		Metals General	SW 6020A	Sodium	126	mg/L	1	0.05	D205-02	EMXT	CH2M					
				Q03					07/26/2006	GW		ANION	EPA 300.0	Chloride	117	mg/L	10	2	G182-06	EMXT	CH2M
									07/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	11	mg/L	5	0.5	G182-06	EMXT	CH2M
									07/26/2006	GW		ANION	EPA 300.0	Sulfate	182	mg/L	10	5	G182-06	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-06	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	320	mg/L	5	1	G182-06	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	320	mg/L	5	1	G182-06	EMXT	CH2M
									07/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	950	mg/L	10	5	G182-06	EMXT	CH2M
									07/26/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G182-06	EMXT	CH2M
07/26/2006	GW		METAL						SW 6020A	Chromium	1.54	µg/L	1	0.5	G182-06	EMXT	CH2M				
07/26/2006	GW		METAL						SW 7199	Hexavalent chromium	1.31 J	µg/L	0.2	0.1	G182-06	EMXT	CH2M				
07/26/2006	GW		METAL						SW 6020A	Manganese	0.00118	mg/L	0.001	0.0005	G182-06	EMXT	CH2M				
07/26/2006	GW		Metals General						SW 6020A	Calcium	139	mg/L	1	0.05	G182-06	EMXT	CH2M				

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Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor			
BGS-25	DOM/ACT	80-400		Q03	07/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-06	EMXT	CH2M			
					07/26/2006	GW		Metals General	SW 6020A	Magnesium	24.9	mg/L	1	0.05	G182-06	EMXT	CH2M			
					07/26/2006	GW		Metals General	SW 6020A	Potassium	4.09	mg/L	1	0.05	G182-06	EMXT	CH2M			
					07/26/2006	GW		Metals General	SW 6020A	Sodium	106	mg/L	1	0.05	G182-06	EMXT	CH2M			
				Q04	10/23/2006	GW		ANION	EPA 300.0			Chloride		123	mg/L	20	4	J236-02	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0			Nitrate as Nitrogen		11.8	mg/L	2.5	0.25	J236-02	EMXT	CH2M
					10/23/2006	GW		ANION	EPA 300.0			Sulfate		193	mg/L	20	10	J236-02	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1			Alkalinity, bicarb as CaCO3		310	mg/L	5	1	J236-02	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 310.1			Alkalinity, total as CaCO3		310	mg/L	5	1	J236-02	EMXT	CH2M
					10/23/2006	GW		GENERAL	EPA 160.1			Total dissolved solids		925	mg/L	10	5	J236-02	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Arsenic		ND <0.005	mg/L	0.005	0.0005	J236-02	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Chromium		1.21	µg/L	1	0.5	J236-02	EMXT	CH2M
					10/23/2006	GW		METAL	SW 7199			Hexavalent chromium		0.988	µg/L	0.2	0.1	J236-02	EMXT	CH2M
					10/23/2006	GW		METAL	SW 6020A			Manganese		ND <0.01	mg/L	0.01	0.0005	J236-02	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Calcium		153	mg/L	1	0.05	J236-02	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Iron		ND <0.5	mg/L	0.5	0.05	J236-02	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Magnesium		24.9	mg/L	1	0.05	J236-02	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Potassium		4.26	mg/L	1	0.05	J236-02	EMXT	CH2M
					10/23/2006	GW		Metals General	SW 6020A			Sodium		111	mg/L	1	0.05	J236-02	EMXT	CH2M

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BGS-27	DOM/ACT			Q01	02/02/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	B026-03	EMXT	CH2M		
				02/02/2006	GW		ANION	EPA 300.0	Chloride	151	mg/L	10	2	B026-03	EMXT	CH2M			
				02/02/2006	GW		ANION	EPA 300.0	Sulfate	204	mg/L	10	5	B026-03	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	B026-03	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	442	mg/L	5	1	B026-03	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	442	mg/L	5	1	B026-03	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	B026-03	EMXT	CH2M			
				02/02/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	1180	mg/L	10	5	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Barium	0.0645	mg/L	0.001	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Chromium	1.87	µg/L	1	0.075	951421-003	TLI	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 7199	Hexavalent chromium	1.64	µg/L	0.2	0.0184	951421-003	TLI	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Manganese	0.00139	mg/L	0.001	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	B026-03	EMXT	CH2M			
				02/02/2006	GW		METAL	SW 6020A	Zinc	0.0467	mg/L	0.02	0.005	B026-03	EMXT	CH2M			
				02/02/2006	GW		Metals General	SW 6020A	Calcium	178	mg/L	1	0.05	B026-03	EMXT	CH2M			
				02/02/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	B026-03	EMXT	CH2M			
				02/02/2006	GW		Metals General	SW 6020A	Magnesium	30.7	mg/L	1	0.05	B026-03	EMXT	CH2M			
				02/02/2006	GW		Metals General	SW 6020A	Potassium	5.5	mg/L	1	0.05	B026-03	EMXT	CH2M			
				02/02/2006	GW		Metals General	SW 6020A	Sodium	218	mg/L	1	0.05	B026-03	EMXT	CH2M			
						Q02	04/25/2006	GW		ANION	EPA 300.0	Bromide	ND <0.5	mg/L	0.5	0.1	D191-05	EMXT	CH2M
						04/25/2006	GW		ANION	EPA 300.0	Chloride	149	mg/L	12.5	2.5	D191-05	EMXT	CH2M	
						04/25/2006	GW		ANION	EPA 300.0	Sulfate	199	mg/L	12.5	6.25	D191-05	EMXT	CH2M	
						04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	D191-05	EMXT	CH2M	
				04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	445	mg/L	5	1	D191-05	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	445	mg/L	5	1	D191-05	EMXT	CH2M			
				04/25/2006	GW		GENERAL	EPA 350.2	Ammonia as nitrogen	ND <0.5	mg/L	0.5	0.03	D191-05	EMXT	CH2M			

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-27	DOM/ACT			Q02	04/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	1180	mg/L	10	5	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Antimony	ND <0.001	mg/L	0.001	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Barium	0.0641	mg/L	0.001	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Beryllium	ND <0.001	mg/L	0.001	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Cadmium	ND <0.001	mg/L	0.001	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Chromium	1.66	µg/L	1	0.5	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Cobalt	ND <0.001	mg/L	0.001	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Copper	ND <0.01	mg/L	0.01	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 7199	Hexavalent chromium	1.4	µg/L	0.2	0.1	D191-05R	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Lead	ND <0.005	mg/L	0.005	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Manganese	0.00299	mg/L	0.001	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	EPA 7470A	Mercury	ND <0.5	µg/L	0.5	0.1	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Molybdenum	ND <0.005	mg/L	0.005	0.001	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Nickel	ND <0.02	mg/L	0.02	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Selenium	ND <0.001	mg/L	0.001	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Thallium	ND <0.001	mg/L	0.001	0.0005	D191-05	EMXT	CH2M		
					04/25/2006	GW		METAL	SW 6020A	Zinc	0.0564 J	mg/L	0.02	0.005	D191-05	EMXT	CH2M		
					04/25/2006	GW		Metals General	SW 6020A	Calcium	168	mg/L	1	0.05	D191-05	EMXT	CH2M		
					04/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	D191-05	EMXT	CH2M		
					04/25/2006	GW		Metals General	SW 6020A	Magnesium	27.5	mg/L	1	0.05	D191-05	EMXT	CH2M		
					04/25/2006	GW		Metals General	SW 6020A	Potassium	5	mg/L	1	0.05	D191-05	EMXT	CH2M		
					04/25/2006	GW		Metals General	SW 6020A	Sodium	207	mg/L	1	0.05	D191-05	EMXT	CH2M		
						Q03	07/26/2006	GW		ANION	EPA 300.0	Chloride	145	mg/L	10	2	G182-04	EMXT	CH2M
							07/26/2006	GW		ANION	EPA 300.0	Sulfate	189	mg/L	5	2.5	G182-04	EMXT	CH2M
							07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-04	EMXT	CH2M
							07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	427	mg/L	5	1	G182-04	EMXT	CH2M
							07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	427	mg/L	5	1	G182-04	EMXT	CH2M
							07/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	1140	mg/L	10	5	G182-04	EMXT	CH2M
							07/26/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	G182-04	EMXT	CH2M
							07/26/2006	GW		METAL	SW 6020A	Chromium	1.43	µg/L	1	0.5	G182-04	EMXT	CH2M
							07/26/2006	GW		METAL	SW 7199	Hexavalent chromium	1.38 J	µg/L	0.2	0.1	G182-04	EMXT	CH2M
							07/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	G182-04	EMXT	CH2M
							07/26/2006	GW		Metals General	SW 6020A	Calcium	143	mg/L	1	0.05	G182-04	EMXT	CH2M
							07/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-04	EMXT	CH2M
							07/26/2006	GW		Metals General	SW 6020A	Magnesium	26.5	mg/L	1	0.05	G182-04	EMXT	CH2M
					07/26/2006	GW		Metals General	SW 6020A	Potassium	4.89	mg/L	1	0.05	G182-04	EMXT	CH2M		

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-27	DOM/ACT			Q03	07/26/2006	GW		Metals General	SW 6020A	Sodium	180	mg/L	1	0.05	G182-04	EMXT	CH2M
				Q04	10/24/2006	GW		ANION	EPA 300.0	Chloride	133	mg/L	12.5	2.5	J257-03	EMXT	CH2M
					10/24/2006	GW		ANION	EPA 300.0	Sulfate	177	mg/L	12.5	6.25	J257-03	EMXT	CH2M
					10/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	393	mg/L	5	1	J257-03	EMXT	CH2M
					10/24/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	393	mg/L	5	1	J257-03	EMXT	CH2M
					10/24/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	1090	mg/L	10	5	J257-03	EMXT	CH2M
					10/24/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	J257-03	EMXT	CH2M
					10/24/2006	GW		METAL	SW 6020A	Chromium	1.38	µg/L	1	0.5	J257-03	EMXT	CH2M
					10/24/2006	GW		METAL	SW 7199	Hexavalent chromium	1.28	µg/L	0.2	0.1	J257-03	EMXT	CH2M
					10/24/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J257-03	EMXT	CH2M
					10/24/2006	GW		Metals General	SW 6020A	Calcium	145	mg/L	1	0.05	J257-03	EMXT	CH2M
					10/24/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J257-03	EMXT	CH2M
					10/24/2006	GW		Metals General	SW 6020A	Magnesium	24	mg/L	1	0.05	J257-03	EMXT	CH2M
					10/24/2006	GW		Metals General	SW 6020A	Potassium	4.84	mg/L	1	0.05	J257-03	EMXT	CH2M
					10/24/2006	GW		Metals General	SW 6020A	Sodium	180	mg/L	1	0.05	J257-03	EMXT	CH2M

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

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Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-28	DOM/ACT			Q03	07/26/2006	GW		ANION	EPA 300.0	Chloride	59.1	mg/L	5	1	G182-01	EMXT	CH2M				
					07/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	0.576	mg/L	0.5	0.05	G182-01	EMXT	CH2M				
					07/26/2006	GW		ANION	EPA 300.0	Sulfate	79.9	mg/L	5	2.5	G182-01	EMXT	CH2M				
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-01	EMXT	CH2M				
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	G182-01	EMXT	CH2M				
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	G182-01	EMXT	CH2M				
					07/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	415	mg/L	10	5	G182-01	EMXT	CH2M				
					07/26/2006	GW		METAL	SW 6020A	Arsenic	0.0102	mg/L	0.005	0.0005	G182-01	EMXT	CH2M				
					07/26/2006	GW		METAL	SW 6020A	Chromium	2.52	µg/L	1	0.5	G182-01	EMXT	CH2M				
					07/26/2006	GW		METAL	SW 7199	Hexavalent chromium	2.07 J	µg/L	0.2	0.1	G182-01	EMXT	CH2M				
					07/26/2006	GW		METAL	SW 6020A	Manganese	0.00175	mg/L	0.001	0.0005	G182-01	EMXT	CH2M				
					07/26/2006	GW		Metals General	SW 6020A	Calcium	27.5	mg/L	1	0.05	G182-01	EMXT	CH2M				
					07/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-01	EMXT	CH2M				
					07/26/2006	GW		Metals General	SW 6020A	Magnesium	12	mg/L	1	0.05	G182-01	EMXT	CH2M				
					07/26/2006	GW		Metals General	SW 6020A	Potassium	3.37	mg/L	1	0.05	G182-01	EMXT	CH2M				
				07/26/2006	GW		Metals General	SW 6020A	Sodium	83.6	mg/L	1	0.05	G182-01	EMXT	CH2M					
				Q04					10/25/2006	GW		ANION	EPA 300.0	Chloride	62.1	mg/L	50	10	J279-04	EMXT	CH2M
									10/25/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	0.528	mg/L	0.5	0.05	J279-04	EMXT	CH2M
									10/25/2006	GW		ANION	EPA 300.0	Sulfate	92.3	mg/L	50	25	J279-04	EMXT	CH2M
									10/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	130	mg/L	5	1	J279-04	EMXT	CH2M
									10/25/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	130	mg/L	5	1	J279-04	EMXT	CH2M
									10/25/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	400	mg/L	10	5	J279-04	EMXT	CH2M
									10/25/2006	GW		METAL	SW 6020A	Arsenic	0.00993	mg/L	0.005	0.0005	J279-04	EMXT	CH2M
									10/25/2006	GW		METAL	SW 6020A	Chromium	2.3	µg/L	1	0.5	J279-04	EMXT	CH2M
									10/25/2006	GW		METAL	SW 7199	Hexavalent chromium	2.06	µg/L	0.2	0.1	J279-04	EMXT	CH2M
									10/25/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	J279-04	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Calcium	27.2	mg/L	1	0.05	J279-04	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	J279-04	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Magnesium	11	mg/L	1	0.05	J279-04	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Potassium	3.39	mg/L	1	0.05	J279-04	EMXT	CH2M
									10/25/2006	GW		Metals General	SW 6020A	Sodium	80.7	mg/L	1	0.05	J279-04	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-29	DOM/ACT	45-105		Q03	07/26/2006	GW		ANION	EPA 300.0	Chloride	43.2	mg/L	5	1	G182-02	EMXT	CH2M
					07/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G182-02	EMXT	CH2M
					07/26/2006	GW		ANION	EPA 300.0	Sulfate	57.4	mg/L	5	2.5	G182-02	EMXT	CH2M
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-02	EMXT	CH2M
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	G182-02	EMXT	CH2M
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	G182-02	EMXT	CH2M
					07/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	355	mg/L	10	5	G182-02	EMXT	CH2M
					07/26/2006	GW		METAL	SW 6020A	Arsenic	0.00814	mg/L	0.005	0.0005	G182-02	EMXT	CH2M
					07/26/2006	GW		METAL	SW 6020A	Chromium	2.11	µg/L	1	0.5	G182-02	EMXT	CH2M
					07/26/2006	GW		METAL	SW 7199	Hexavalent chromium	1.95 J	µg/L	0.2	0.1	G182-02	EMXT	CH2M
					07/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.001	mg/L	0.001	0.0005	G182-02	EMXT	CH2M
					07/26/2006	GW		Metals General	SW 6020A	Calcium	27.7	mg/L	1	0.05	G182-02	EMXT	CH2M
					07/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-02	EMXT	CH2M
					07/26/2006	GW		Metals General	SW 6020A	Magnesium	9.37	mg/L	1	0.05	G182-02	EMXT	CH2M
					07/26/2006	GW		Metals General	SW 6020A	Potassium	3.19	mg/L	1	0.05	G182-02	EMXT	CH2M
				07/26/2006	GW		Metals General	SW 6020A	Sodium	65.6	mg/L	1	0.05	G182-02	EMXT	CH2M	
				Q03	09/26/2006	GW		ANION	EPA 300.0	Chloride	43	mg/L	10	2	I248-01	EMXT	CH2M
					09/26/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I248-01	EMXT	CH2M
					09/26/2006	GW		ANION	EPA 300.0	Sulfate	56.7	mg/L	10	5	I248-01	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	I248-01	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	I248-01	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	365	mg/L	10	5	I248-01	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Arsenic	0.00802	mg/L	0.005	0.0005	I248-01	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Chromium	2.15	µg/L	1	0.5	I248-01	EMXT	CH2M
					09/26/2006	GW		METAL	SW 7199	Hexavalent chromium	1.74 J	µg/L	0.2	0.1	I248-01	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I248-01	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Calcium	29.1	mg/L	1	0.05	I248-01	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I248-01	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Magnesium	9.21	mg/L	1	0.05	I248-01	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Potassium	3.14	mg/L	1	0.05	I248-01	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Sodium	70.5	mg/L	1	0.05	I248-01	EMXT	CH2M
				Q04	11/13/2006	GW		ANION	EPA 300.0	Chloride	44.6	mg/L	10	2	K142-06	EMXT	CH2M
					11/13/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K142-06	EMXT	CH2M
					11/13/2006	GW		ANION	EPA 300.0	Sulfate	58.3	mg/L	10	5	K142-06	EMXT	CH2M
					11/13/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	K142-06	EMXT	CH2M
					11/13/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	K142-06	EMXT	CH2M

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Sample Matrix: GW = Groundwater

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-29	DOM/ACT	45-105		Q04	11/13/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	335	mg/L	10	5	K142-06	EMXT	CH2M
					11/13/2006	GW		METAL	SW 6020A	Arsenic	0.00739	mg/L	0.005	0.0005	K142-06	EMXT	CH2M
					11/13/2006	GW		METAL	SW 6020A	Chromium	1.71	µg/L	1	0.5	K142-06	EMXT	CH2M
					11/13/2006	GW		METAL	SW 7199	Hexavalent chromium	1.87	µg/L	0.2	0.1	K142-06	EMXT	CH2M
					11/13/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K142-06	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Calcium	29.2	mg/L	1	0.05	K142-06	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K142-06	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Magnesium	9.52 J	mg/L	1	0.05	K142-06	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Potassium	3.04	mg/L	1	0.05	K142-06	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Sodium	69.8	mg/L	1	0.05	K142-06	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-30	DOM/ACT	99-155		Q03	07/26/2006	GW		ANION	EPA 300.0	Chloride	81.2	mg/L	10	2	G182-08	EMXT	CH2M	
					07/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	0.838	mg/L	0.5	0.05	G182-08	EMXT	CH2M	
					07/26/2006	GW		ANION	EPA 300.0	Sulfate	105	mg/L	10	5	G182-08	EMXT	CH2M	
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-08	EMXT	CH2M	
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	128	mg/L	5	1	G182-08	EMXT	CH2M	
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	128	mg/L	5	1	G182-08	EMXT	CH2M	
					07/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	480	mg/L	10	5	G182-08	EMXT	CH2M	
					07/26/2006	GW		METAL	SW 6020A	Arsenic	0.0122	mg/L	0.005	0.0005	G182-08	EMXT	CH2M	
					07/26/2006	GW		METAL	SW 6020A	Chromium	2.53	µg/L	1	0.5	G182-08	EMXT	CH2M	
					07/26/2006	GW		METAL	SW 7199	Hexavalent chromium	2.29 J	µg/L	0.2	0.1	G182-08	EMXT	CH2M	
					07/26/2006	GW		METAL	SW 6020A	Manganese	0.00112	mg/L	0.001	0.0005	G182-08	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Calcium	25.6	mg/L	1	0.05	G182-08	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-08	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Magnesium	14.2	mg/L	1	0.05	G182-08	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Potassium	3.53	mg/L	1	0.05	G182-08	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Sodium	110	mg/L	1	0.05	G182-08	EMXT	CH2M	
					07/26/2006	GW		Dup	ANION	EPA 300.0	Chloride	81.4	mg/L	10	2	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	ANION	EPA 300.0	Nitrate as Nitrogen	0.839	mg/L	0.5	0.05	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	ANION	EPA 300.0	Sulfate	105	mg/L	10	5	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	128	mg/L	5	1	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	128	mg/L	5	1	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	GENERAL	EPA 160.1	Total dissolved solids	485	mg/L	10	5	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	METAL	SW 6020A	Arsenic	0.0123	mg/L	0.005	0.0005	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	METAL	SW 6020A	Chromium	2.48	µg/L	1	0.5	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	METAL	SW 7199	Hexavalent chromium	2.31 J	µg/L	0.2	0.1	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	METAL	SW 6020A	Manganese	0.00116	mg/L	0.001	0.0005	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	Metals General	SW 6020A	Calcium	25.4	mg/L	1	0.05	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	Metals General	SW 6020A	Magnesium	14	mg/L	1	0.05	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	Metals General	SW 6020A	Potassium	3.48	mg/L	1	0.05	G182-07	EMXT	CH2M
					07/26/2006	GW		Dup	Metals General	SW 6020A	Sodium	108	mg/L	1	0.05	G182-07	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-31	DOM/ACT			Q03	07/26/2006	GW		ANION	EPA 300.0	Chloride	44.2	mg/L	5	1	G182-09	EMXT	CH2M	
					07/26/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	G182-09	EMXT	CH2M	
					07/26/2006	GW		ANION	EPA 300.0	Sulfate	58.4	mg/L	5	2.5	G182-09	EMXT	CH2M	
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, as carbonate	ND <5	mg/L	5	1	G182-09	EMXT	CH2M	
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	139	mg/L	5	1	G182-09	EMXT	CH2M	
					07/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	139	mg/L	5	1	G182-09	EMXT	CH2M	
					07/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	355	mg/L	10	5	G182-09	EMXT	CH2M	
					07/26/2006	GW		METAL	SW 6020A	Arsenic	0.0111	mg/L	0.005	0.0005	G182-09	EMXT	CH2M	
					07/26/2006	GW		METAL	SW 6020A	Chromium	1.88	µg/L	1	0.5	G182-09	EMXT	CH2M	
					07/26/2006	GW		METAL	SW 7199	Hexavalent chromium	1.12 J	µg/L	0.2	0.1	G182-09	EMXT	CH2M	
					07/26/2006	GW		METAL	SW 6020A	Manganese	0.00123	mg/L	0.001	0.0005	G182-09	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Calcium	25.2	mg/L	1	0.05	G182-09	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	G182-09	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Magnesium	10.5	mg/L	1	0.05	G182-09	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Potassium	2.97	mg/L	1	0.05	G182-09	EMXT	CH2M	
					07/26/2006	GW		Metals General	SW 6020A	Sodium	69.2	mg/L	1	0.05	G182-09	EMXT	CH2M	
					Q03	09/27/2006	GW		ANION	EPA 300.0	Chloride	56.6	mg/L	10	2	I262-07	EMXT	CH2M
						09/27/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I262-07	EMXT	CH2M
						09/27/2006	GW		ANION	EPA 300.0	Sulfate	82.2	mg/L	10	5	I262-07	EMXT	CH2M
						09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	138	mg/L	5	1	I262-07	EMXT	CH2M
						09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	138	mg/L	5	1	I262-07	EMXT	CH2M
						09/27/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	325	mg/L	10	5	I262-07	EMXT	CH2M
						09/27/2006	GW		METAL	SW 6020A	Arsenic	0.00859	mg/L	0.005	0.0005	I262-07	EMXT	CH2M
						09/27/2006	GW		METAL	SW 6020A	Chromium	1.36	µg/L	1	0.5	I262-07	EMXT	CH2M
						09/27/2006	GW		METAL	SW 7199	Hexavalent chromium	0.684	µg/L	0.2	0.1	I262-07	EMXT	CH2M
						09/27/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I262-07	EMXT	CH2M
						09/27/2006	GW		Metals General	SW 6020A	Calcium	27.5	mg/L	1	0.05	I262-07	EMXT	CH2M
						09/27/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I262-07	EMXT	CH2M
						09/27/2006	GW		Metals General	SW 6020A	Magnesium	11.5	mg/L	1	0.05	I262-07	EMXT	CH2M
						09/27/2006	GW		Metals General	SW 6020A	Potassium	3.13	mg/L	1	0.05	I262-07	EMXT	CH2M
						09/27/2006	GW		Metals General	SW 6020A	Sodium	86.8	mg/L	1	0.05	I262-07	EMXT	CH2M
					Q04	11/13/2006	GW		ANION	EPA 300.0	Chloride	55.5	mg/L	10	2	K142-07	EMXT	CH2M
						11/13/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K142-07	EMXT	CH2M
						11/13/2006	GW		ANION	EPA 300.0	Sulfate	82	mg/L	10	5	K142-07	EMXT	CH2M
						11/13/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	K142-07	EMXT	CH2M
						11/13/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	K142-07	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-31	DOM/ACT			Q04	11/13/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	410	mg/L	10	5	K142-07	EMXT	CH2M	
					11/13/2006	GW		METAL	SW 6020A	Arsenic	0.00782	mg/L	0.005	0.0005	K142-07	EMXT	CH2M	
					11/13/2006	GW			METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	K142-07	EMXT	CH2M
					11/13/2006	GW			METAL	SW 7199	Hexavalent chromium	0.729	µg/L	0.2	0.1	K142-07	EMXT	CH2M
					11/13/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K142-07	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Calcium	27.3	mg/L	1	0.05	K142-07	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K142-07	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Magnesium	12 J	mg/L	1	0.05	K142-07	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Potassium	2.92	mg/L	1	0.05	K142-07	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Sodium	87.7	mg/L	1	0.05	K142-07	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor			
BGS-32	DOM/ACT	73-136		Q03	09/26/2006	GW		ANION	EPA 300.0	Chloride	98.3	mg/L	10	2	I248-02	EMXT	CH2M			
					09/26/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	1.97	mg/L	1	0.1	I248-02T	EMXT	CH2M			
					09/26/2006	GW		ANION	EPA 300.0	Sulfate	178	mg/L	10	5	I248-02	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	I248-02	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	I248-02	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	640	mg/L	10	5	I248-02	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Arsenic	0.0148	mg/L	0.005	0.0005	I248-02	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Chromium	3	µg/L	1	0.5	I248-02	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 7199	Hexavalent chromium	1.21 J	µg/L	0.2	0.1	I248-02	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I248-02	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Calcium	28.4	mg/L	1	0.05	I248-02	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I248-02	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Magnesium	15.8	mg/L	1	0.05	I248-02	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Potassium	4.05	mg/L	1	0.05	I248-02	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Sodium	146	mg/L	1	0.05	I248-02	EMXT	CH2M			
					09/26/2006	GW		Dup	ANION	EPA 300.0	Chloride	98.6	mg/L	10	2	I248-08	EMXT	CH2M		
					09/26/2006	GW		Dup	ANION	EPA 353.3	Nitrate as Nitrogen	1.79	mg/L	0.5	0.05	I248-08	EMXT	CH2M		
					09/26/2006	GW		Dup	ANION	EPA 300.0	Sulfate	178	mg/L	10	5	I248-08	EMXT	CH2M		
				09/26/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	GENERAL	EPA 160.1	Total dissolved solids	600	mg/L	10	5	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	METAL	SW 6020A	Arsenic	0.0158	mg/L	0.005	0.0005	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	METAL	SW 6020A	Chromium	3.15	µg/L	1	0.5	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	METAL	SW 7199	Hexavalent chromium	1.07 J	µg/L	0.2	0.1	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	Metals General	SW 6020A	Calcium	30.1	mg/L	1	0.05	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	Metals General	SW 6020A	Magnesium	16.8	mg/L	1	0.05	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	Metals General	SW 6020A	Potassium	4.31	mg/L	1	0.05	I248-08	EMXT	CH2M			
				09/26/2006	GW		Dup	Metals General	SW 6020A	Sodium	155	mg/L	1	0.05	I248-08	EMXT	CH2M			
				Q04				11/15/2006	GW		ANION	EPA 300.0	Chloride	114	mg/L	20	4	K180-02	EMXT	CH2M
								11/15/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	2.46	mg/L	0.5	0.05	K180-02	EMXT	CH2M
								11/15/2006	GW		ANION	EPA 300.0	Sulfate	202	mg/L	20	10	K180-02	EMXT	CH2M
11/15/2006	GW		GENERAL					EPA 310.1	Alkalinity, bicarb as CaCO3	113	mg/L	5	1	K180-02	EMXT	CH2M				
11/15/2006	GW		GENERAL					EPA 310.1	Alkalinity, total as CaCO3	113	mg/L	5	1	K180-02	EMXT	CH2M				
11/15/2006	GW		GENERAL					EPA 160.1	Total dissolved solids	660	mg/L	10	5	K180-02	EMXT	CH2M				
11/15/2006	GW		METAL					SW 6020A	Arsenic	0.0128	mg/L	0.005	0.0005	K180-02	EMXT	CH2M				

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-32	DOM/ACT	73-136		Q04	11/15/2006	GW		METAL	SW 6020A	Chromium	2.45	µg/L	1	0.5	K180-02	EMXT	CH2M
					11/15/2006	GW		METAL	SW 7199	Hexavalent chromium	1.77	µg/L	1	0.5	K180-02	EMXT	CH2M
					11/15/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-02	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Calcium	30	mg/L	1	0.05	K180-02	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-02	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Magnesium	16	mg/L	1	0.05	K180-02	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Potassium	3.88	mg/L	1	0.05	K180-02	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Sodium	149	mg/L	1	0.05	K180-02	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor			
BGS-33	DOM/ACT	55-114		Q03	09/26/2006	GW		ANION	EPA 300.0	Chloride	174	mg/L	10	2	I248-03	EMXT	CH2M			
					09/26/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	7.91	mg/L	2.5	0.25	I248-03T	EMXT	CH2M			
					09/26/2006	GW		ANION	EPA 300.0	Sulfate	259	mg/L	10	5	I248-03	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	113	mg/L	5	1	I248-03	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	113	mg/L	5	1	I248-03	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	900	mg/L	10	5	I248-03	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Arsenic	0.00833	mg/L	0.005	0.0005	I248-03	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Chromium	2.17	µg/L	1	0.5	I248-03	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 7199	Hexavalent chromium	0.862 J	µg/L	0.2	0.1	I248-03	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I248-03	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Calcium	58	mg/L	1	0.05	I248-03	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I248-03	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Magnesium	32.9	mg/L	1	0.05	I248-03	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Potassium	5.36	mg/L	1	0.05	I248-03	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Sodium	179	mg/L	1	0.05	I248-03	EMXT	CH2M			
				Q04				11/15/2006	GW		ANION	EPA 300.0	Chloride	164	mg/L	20	4	K180-01	EMXT	CH2M
								11/15/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	8.59	mg/L	0.5	0.05	K180-01	EMXT	CH2M
								11/15/2006	GW		ANION	EPA 300.0	Sulfate	265	mg/L	20	10	K180-01	EMXT	CH2M
								11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	108	mg/L	5	1	K180-01	EMXT	CH2M
								11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	108	mg/L	5	1	K180-01	EMXT	CH2M
								11/15/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	825	mg/L	10	5	K180-01	EMXT	CH2M
								11/15/2006	GW		METAL	SW 6020A	Arsenic	0.0073	mg/L	0.005	0.0005	K180-01	EMXT	CH2M
								11/15/2006	GW		METAL	SW 6020A	Chromium	1.71	µg/L	1	0.5	K180-01	EMXT	CH2M
								11/15/2006	GW		METAL	SW 7199	Hexavalent chromium	2.1	µg/L	1	0.5	K180-01	EMXT	CH2M
								11/15/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-01	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Calcium	49.7	mg/L	1	0.05	K180-01	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-01	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Magnesium	26	mg/L	1	0.05	K180-01	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Potassium	4.51	mg/L	1	0.05	K180-01	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Sodium	163	mg/L	1	0.05	K180-01	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-34	DOM/ACT	42-147		Q03	09/26/2006	GW		ANION	EPA 300.0	Chloride	55.2	mg/L	10	2	I248-04	EMXT	CH2M
					09/26/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I248-04	EMXT	CH2M
					09/26/2006	GW		ANION	EPA 300.0	Sulfate	86.3	mg/L	10	5	I248-04	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	I248-04	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	I248-04	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	410	mg/L	10	5	I248-04	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Arsenic	0.0123	mg/L	0.005	0.0005	I248-04	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Chromium	1.88	µg/L	1	0.5	I248-04	EMXT	CH2M
					09/26/2006	GW		METAL	SW 7199	Hexavalent chromium	1.23 J	µg/L	0.2	0.1	I248-04	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I248-04	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Calcium	19.3	mg/L	1	0.05	I248-04	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I248-04	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Magnesium	10	mg/L	1	0.05	I248-04	EMXT	CH2M
				09/26/2006	GW		Metals General	SW 6020A	Potassium	2.93	mg/L	1	0.05	I248-04	EMXT	CH2M	
				09/26/2006	GW		Metals General	SW 6020A	Sodium	104	mg/L	1	0.05	I248-04	EMXT	CH2M	
				Q04	11/13/2006	GW		ANION	EPA 300.0	Chloride	56.5	mg/L	10	2	K142-01	EMXT	CH2M
					11/13/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K142-01	EMXT	CH2M
					11/13/2006	GW		ANION	EPA 300.0	Sulfate	87.7	mg/L	10	5	K142-01	EMXT	CH2M
					11/13/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	K142-01	EMXT	CH2M
					11/13/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	K142-01	EMXT	CH2M
					11/13/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	390	mg/L	10	5	K142-01	EMXT	CH2M
					11/13/2006	GW		METAL	SW 6020A	Arsenic	0.0109	mg/L	0.005	0.0005	K142-01	EMXT	CH2M
					11/13/2006	GW		METAL	SW 6020A	Chromium	1.42	µg/L	1	0.5	K142-01	EMXT	CH2M
					11/13/2006	GW		METAL	SW 7199	Hexavalent chromium	1.19	µg/L	0.2	0.1	K142-01	EMXT	CH2M
					11/13/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K142-01	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Calcium	18.3	mg/L	1	0.05	K142-01	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K142-01	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Magnesium	9.82 J	mg/L	1	0.05	K142-01	EMXT	CH2M
					11/13/2006	GW		Metals General	SW 6020A	Potassium	2.67	mg/L	1	0.05	K142-01	EMXT	CH2M
11/13/2006	GW		Metals General		SW 6020A	Sodium	98.5	mg/L	1	0.05	K142-01	EMXT	CH2M				

Notes:

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Sample Matrix: GW = Groundwater

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-35	DOM/ACT			Q03	09/26/2006	GW		ANION	EPA 300.0	Chloride	86.2	mg/L	10	2	I248-05	EMXT	CH2M
					09/26/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I248-05	EMXT	CH2M
					09/26/2006	GW		ANION	EPA 300.0	Sulfate	104	mg/L	10	5	I248-05	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	118	mg/L	5	1	I248-05	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	118	mg/L	5	1	I248-05	EMXT	CH2M
					09/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	455	mg/L	10	5	I248-05	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Arsenic	0.0121	mg/L	0.005	0.0005	I248-05	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Chromium	2.5	µg/L	1	0.5	I248-05	EMXT	CH2M
					09/26/2006	GW		METAL	SW 7199	Hexavalent chromium	1.5 J	µg/L	0.2	0.1	I248-05	EMXT	CH2M
					09/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I248-05	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Calcium	23.7	mg/L	1	0.05	I248-05	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I248-05	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Magnesium	12.5	mg/L	1	0.05	I248-05	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Potassium	3.28	mg/L	1	0.05	I248-05	EMXT	CH2M
					09/26/2006	GW		Metals General	SW 6020A	Sodium	110	mg/L	1	0.05	I248-05	EMXT	CH2M
					Q04	11/15/2006	GW		ANION	EPA 300.0	Chloride	82.8	mg/L	10	2	K180-03	EMXT
				11/15/2006		GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K180-03	EMXT	CH2M
				11/15/2006		GW		ANION	EPA 300.0	Sulfate	107	mg/L	10	5	K180-03	EMXT	CH2M
				11/15/2006		GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	120	mg/L	5	1	K180-03	EMXT	CH2M
				11/15/2006		GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	120	mg/L	5	1	K180-03	EMXT	CH2M
				11/15/2006		GW		GENERAL	EPA 160.1	Total dissolved solids	450	mg/L	10	5	K180-03	EMXT	CH2M
				11/15/2006		GW		METAL	SW 6020A	Arsenic	0.0115	mg/L	0.005	0.0005	K180-03	EMXT	CH2M
				11/15/2006		GW		METAL	SW 6020A	Chromium	2.3	µg/L	1	0.5	K180-03	EMXT	CH2M
				11/15/2006		GW		METAL	SW 7199	Hexavalent chromium	2.56	µg/L	0.4	0.2	K180-03	EMXT	CH2M
				11/15/2006		GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-03	EMXT	CH2M
				11/15/2006		GW		Metals General	SW 6020A	Calcium	23.2	mg/L	1	0.05	K180-03	EMXT	CH2M
				11/15/2006		GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-03	EMXT	CH2M
				11/15/2006		GW		Metals General	SW 6020A	Magnesium	11.8	mg/L	1	0.05	K180-03	EMXT	CH2M
				11/15/2006		GW		Metals General	SW 6020A	Potassium	3.04	mg/L	1	0.05	K180-03	EMXT	CH2M
				11/15/2006		GW		Metals General	SW 6020A	Sodium	110	mg/L	1	0.05	K180-03	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor			
BGS-36	DOM/ACT	85-165		Q03	09/26/2006	GW		ANION	EPA 300.0	Chloride	58.7	mg/L	10	2	I248-06	EMXT	CH2M			
					09/26/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I248-06	EMXT	CH2M			
					09/26/2006	GW		ANION	EPA 300.0	Sulfate	93	mg/L	10	5	I248-06	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	130	mg/L	5	1	I248-06	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	130	mg/L	5	1	I248-06	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	430	mg/L	10	5	I248-06	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Arsenic	0.0121	mg/L	0.005	0.0005	I248-06	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Chromium	2.69	µg/L	1	0.5	I248-06	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 7199	Hexavalent chromium	2.1 J	µg/L	0.2	0.1	I248-06	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I248-06	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Calcium	24.4	mg/L	1	0.05	I248-06	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I248-06	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Magnesium	12.1	mg/L	1	0.05	I248-06	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Potassium	3.22	mg/L	1	0.05	I248-06	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Sodium	94.5	mg/L	1	0.05	I248-06	EMXT	CH2M			
				Q04				11/13/2006	GW		ANION	EPA 300.0	Chloride	58.3	mg/L	10	2	K142-02	EMXT	CH2M
								11/13/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K142-02	EMXT	CH2M
								11/13/2006	GW		ANION	EPA 300.0	Sulfate	92.7	mg/L	10	5	K142-02	EMXT	CH2M
								11/13/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	K142-02	EMXT	CH2M
								11/13/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	K142-02	EMXT	CH2M
								11/13/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	410	mg/L	10	5	K142-02	EMXT	CH2M
								11/13/2006	GW		METAL	SW 6020A	Arsenic	0.0114	mg/L	0.005	0.0005	K142-02	EMXT	CH2M
								11/13/2006	GW		METAL	SW 6020A	Chromium	2.33	µg/L	1	0.5	K142-02	EMXT	CH2M
								11/13/2006	GW		METAL	SW 7199	Hexavalent chromium	2.62	µg/L	0.2	0.1	K142-02	EMXT	CH2M
								11/13/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K142-02	EMXT	CH2M
								11/13/2006	GW		Metals General	SW 6020A	Calcium	24.4	mg/L	1	0.05	K142-02	EMXT	CH2M
								11/13/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K142-02	EMXT	CH2M
								11/13/2006	GW		Metals General	SW 6020A	Magnesium	12 J	mg/L	1	0.05	K142-02	EMXT	CH2M
								11/13/2006	GW		Metals General	SW 6020A	Potassium	3.08	mg/L	1	0.05	K142-02	EMXT	CH2M
								11/13/2006	GW		Metals General	SW 6020A	Sodium	95	mg/L	1	0.05	K142-02	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor			
BGS-37	DOM/ACT	55-160		Q03	09/26/2006	GW		ANION	EPA 300.0	Chloride	54.6	mg/L	10	2	I248-07	EMXT	CH2M			
					09/26/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I248-07	EMXT	CH2M			
					09/26/2006	GW		ANION	EPA 300.0	Sulfate	84.5	mg/L	10	5	I248-07	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	I248-07	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	I248-07	EMXT	CH2M			
					09/26/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	415	mg/L	10	5	I248-07	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Arsenic	0.0117	mg/L	0.005	0.0005	I248-07	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Chromium	2.44	µg/L	1	0.5	I248-07	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 7199	Hexavalent chromium	1.34 J	µg/L	0.2	0.1	I248-07	EMXT	CH2M			
					09/26/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I248-07	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Calcium	21.4	mg/L	1	0.05	I248-07	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I248-07	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Magnesium	10.9	mg/L	1	0.05	I248-07	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Potassium	2.99	mg/L	1	0.05	I248-07	EMXT	CH2M			
					09/26/2006	GW		Metals General	SW 6020A	Sodium	95.9	mg/L	1	0.05	I248-07	EMXT	CH2M			
					Q04				11/13/2006	GW		ANION	EPA 300.0	Chloride	54.4	mg/L	10	2	K142-05	EMXT
				11/13/2006					GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K142-05	EMXT	CH2M
				11/13/2006					GW		ANION	EPA 300.0	Sulfate	83.6	mg/L	10	5	K142-05	EMXT	CH2M
				11/13/2006					GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	K142-05	EMXT	CH2M
				11/13/2006					GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	K142-05	EMXT	CH2M
				11/13/2006					GW		GENERAL	EPA 160.1	Total dissolved solids	390	mg/L	10	5	K142-05	EMXT	CH2M
				11/13/2006					GW		METAL	SW 6020A	Arsenic	0.0117	mg/L	0.005	0.0005	K142-05	EMXT	CH2M
				11/13/2006					GW		METAL	SW 6020A	Chromium	2	µg/L	1	0.5	K142-05	EMXT	CH2M
				11/13/2006					GW		METAL	SW 7199	Hexavalent chromium	1.65	µg/L	0.2	0.1	K142-05	EMXT	CH2M
				11/13/2006					GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K142-05	EMXT	CH2M
				11/13/2006					GW		Metals General	SW 6020A	Calcium	21.3	mg/L	1	0.05	K142-05	EMXT	CH2M
				11/13/2006					GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K142-05	EMXT	CH2M
				11/13/2006					GW		Metals General	SW 6020A	Magnesium	11 J	mg/L	1	0.05	K142-05	EMXT	CH2M
				11/13/2006					GW		Metals General	SW 6020A	Potassium	2.83	mg/L	1	0.05	K142-05	EMXT	CH2M
				11/13/2006					GW		Metals General	SW 6020A	Sodium	95.1	mg/L	1	0.05	K142-05	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-38	DOM/ACT			Q03	09/27/2006	GW		ANION	EPA 300.0	Chloride	73.3	mg/L	10	2	I262-01	EMXT	CH2M
					09/27/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I262-01	EMXT	CH2M
					09/27/2006	GW		ANION	EPA 300.0	Sulfate	129	mg/L	10	5	I262-01	EMXT	CH2M
					09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	I262-01	EMXT	CH2M
					09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	I262-01	EMXT	CH2M
					09/27/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	435	mg/L	10	5	I262-01	EMXT	CH2M
					09/27/2006	GW		METAL	SW 6020A	Arsenic	0.0136	mg/L	0.005	0.0005	I262-01	EMXT	CH2M
					09/27/2006	GW		METAL	SW 6020A	Chromium	2.67	µg/L	1	0.5	I262-01	EMXT	CH2M
					09/27/2006	GW		METAL	SW 7199	Hexavalent chromium	2.05	µg/L	0.2	0.1	I262-01	EMXT	CH2M
					09/27/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I262-01	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Calcium	19.1	mg/L	1	0.05	I262-01	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I262-01	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Magnesium	10.8	mg/L	1	0.05	I262-01	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Potassium	3.29	mg/L	1	0.05	I262-01	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Sodium	116	mg/L	1	0.05	I262-01	EMXT	CH2M
					Q04	11/13/2006	GW		ANION	EPA 300.0	Chloride	69.7	mg/L	10	2	K142-03	EMXT
				11/13/2006		GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K142-03	EMXT	CH2M
				11/13/2006		GW		ANION	EPA 300.0	Sulfate	124	mg/L	10	5	K142-03	EMXT	CH2M
				11/13/2006		GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	K142-03	EMXT	CH2M
				11/13/2006		GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	K142-03	EMXT	CH2M
				11/13/2006		GW		GENERAL	EPA 160.1	Total dissolved solids	465	mg/L	10	5	K142-03	EMXT	CH2M
				11/13/2006		GW		METAL	SW 6020A	Arsenic	0.0133	mg/L	0.005	0.0005	K142-03	EMXT	CH2M
				11/13/2006		GW		METAL	SW 6020A	Chromium	2.41	µg/L	1	0.5	K142-03	EMXT	CH2M
				11/13/2006		GW		METAL	SW 7199	Hexavalent chromium	2.44	µg/L	0.2	0.1	K142-03	EMXT	CH2M
				11/13/2006		GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K142-03	EMXT	CH2M
				11/13/2006		GW		Metals General	SW 6020A	Calcium	19.1	mg/L	1	0.05	K142-03	EMXT	CH2M
				11/13/2006		GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K142-03	EMXT	CH2M
				11/13/2006		GW		Metals General	SW 6020A	Magnesium	11.7 J	mg/L	1	0.05	K142-03	EMXT	CH2M
				11/13/2006		GW		Metals General	SW 6020A	Potassium	3.18	mg/L	1	0.05	K142-03	EMXT	CH2M
				11/13/2006		GW		Metals General	SW 6020A	Sodium	119	mg/L	1	0.05	K142-03	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor			
BGS-39	DOM/ACT	72-152		Q03	09/27/2006	GW		ANION	EPA 300.0	Chloride	45.7	mg/L	10	2	I262-02	EMXT	CH2M			
					09/27/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I262-02	EMXT	CH2M			
					09/27/2006	GW		ANION	EPA 300.0	Sulfate	59.5	mg/L	10	5	I262-02	EMXT	CH2M			
					09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	138	mg/L	5	1	I262-02	EMXT	CH2M			
					09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	138	mg/L	5	1	I262-02	EMXT	CH2M			
					09/27/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	275	mg/L	10	5	I262-02	EMXT	CH2M			
					09/27/2006	GW		METAL	SW 6020A	Arsenic	0.0107	mg/L	0.005	0.0005	I262-02	EMXT	CH2M			
					09/27/2006	GW		METAL	SW 6020A	Chromium	1.97	µg/L	1	0.5	I262-02	EMXT	CH2M			
					09/27/2006	GW		METAL	SW 7199	Hexavalent chromium	1.3	µg/L	0.2	0.1	I262-02	EMXT	CH2M			
					09/27/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I262-02	EMXT	CH2M			
					09/27/2006	GW		Metals General	SW 6020A	Calcium	25.1	mg/L	1	0.05	I262-02	EMXT	CH2M			
					09/27/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I262-02	EMXT	CH2M			
					09/27/2006	GW		Metals General	SW 6020A	Magnesium	9.9	mg/L	1	0.05	I262-02	EMXT	CH2M			
					09/27/2006	GW		Metals General	SW 6020A	Potassium	2.85	mg/L	1	0.05	I262-02	EMXT	CH2M			
					09/27/2006	GW		Metals General	SW 6020A	Sodium	68.2	mg/L	1	0.05	I262-02	EMXT	CH2M			
				Q04				11/15/2006	GW		ANION	EPA 300.0	Chloride	47.6	mg/L	5	1	K180-06	EMXT	CH2M
								11/15/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K180-06	EMXT	CH2M
								11/15/2006	GW		ANION	EPA 300.0	Sulfate	62.5	mg/L	5	2.5	K180-06	EMXT	CH2M
								11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	135	mg/L	5	1	K180-06	EMXT	CH2M
								11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	135	mg/L	5	1	K180-06	EMXT	CH2M
								11/15/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	340	mg/L	10	5	K180-06	EMXT	CH2M
								11/15/2006	GW		METAL	SW 6020A	Arsenic	0.0107	mg/L	0.005	0.0005	K180-06	EMXT	CH2M
								11/15/2006	GW		METAL	SW 6020A	Chromium	2.18	µg/L	1	0.5	K180-06	EMXT	CH2M
								11/15/2006	GW		METAL	SW 7199	Hexavalent chromium	2.56	µg/L	1	0.5	K180-06	EMXT	CH2M
								11/15/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-06	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Calcium	27.1	mg/L	1	0.05	K180-06	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-06	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Magnesium	10.4 J	mg/L	1	0.05	K180-06	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Potassium	2.87	mg/L	1	0.05	K180-06	EMXT	CH2M
								11/15/2006	GW		Metals General	SW 6020A	Sodium	75.5	mg/L	1	0.05	K180-06	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-40	DOM/ACT			Q03	09/27/2006	GW		ANION	EPA 300.0	Chloride	40.4	mg/L	10	2	I262-03	EMXT	CH2M
					09/27/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I262-03	EMXT	CH2M
					09/27/2006	GW		ANION	EPA 300.0	Sulfate	52	mg/L	10	5	I262-03	EMXT	CH2M
					09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	140	mg/L	5	1	I262-03	EMXT	CH2M
					09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	140	mg/L	5	1	I262-03	EMXT	CH2M
					09/27/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	275	mg/L	10	5	I262-03	EMXT	CH2M
					09/27/2006	GW		METAL	SW 6020A	Arsenic	0.01	mg/L	0.005	0.0005	I262-03	EMXT	CH2M
					09/27/2006	GW		METAL	SW 6020A	Chromium	2.26	µg/L	1	0.5	I262-03	EMXT	CH2M
					09/27/2006	GW		METAL	SW 7199	Hexavalent chromium	2.03	µg/L	0.2	0.1	I262-03	EMXT	CH2M
					09/27/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I262-03	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Calcium	24.3	mg/L	1	0.05	I262-03	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I262-03	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Magnesium	8.99	mg/L	1	0.05	I262-03	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Potassium	2.76	mg/L	1	0.05	I262-03	EMXT	CH2M
					09/27/2006	GW		Metals General	SW 6020A	Sodium	69.6	mg/L	1	0.05	I262-03	EMXT	CH2M
				Q04	11/15/2006	GW		ANION	EPA 300.0	Chloride	42.9	mg/L	5	1	K180-07	EMXT	CH2M
					11/15/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K180-07	EMXT	CH2M
					11/15/2006	GW		ANION	EPA 300.0	Sulfate	54.3	mg/L	5	2.5	K180-07	EMXT	CH2M
					11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	138	mg/L	5	1	K180-07	EMXT	CH2M
					11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	138	mg/L	5	1	K180-07	EMXT	CH2M
					11/15/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	500	mg/L	10	5	K180-07	EMXT	CH2M
					11/15/2006	GW		METAL	SW 6020A	Arsenic	0.00945	mg/L	0.005	0.0005	K180-07	EMXT	CH2M
					11/15/2006	GW		METAL	SW 6020A	Chromium	2.04	µg/L	1	0.5	K180-07	EMXT	CH2M
					11/15/2006	GW		METAL	SW 7199	Hexavalent chromium	2.47	µg/L	0.2	0.1	K180-07	EMXT	CH2M
					11/15/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-07	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Calcium	25.7	mg/L	1	0.05	K180-07	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-07	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Magnesium	9.02 J	mg/L	1	0.05	K180-07	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Potassium	2.68	mg/L	1	0.05	K180-07	EMXT	CH2M
					11/15/2006	GW		Metals General	SW 6020A	Sodium	75.3	mg/L	1	0.05	K180-07	EMXT	CH2M

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-41	DOM/ACT			Q03	09/27/2006	GW		ANION	EPA 300.0	Chloride	140	mg/L	10	2	I262-04	EMXT	CH2M		
					09/27/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	3.02	mg/L	0.5	0.05	I262-04T	EMXT	CH2M		
					09/27/2006	GW		ANION	EPA 300.0	Sulfate	197	mg/L	10	5	I262-04	EMXT	CH2M		
					09/27/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	118	mg/L	5	1	I262-04	EMXT	CH2M	
					09/27/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	118	mg/L	5	1	I262-04	EMXT	CH2M	
					09/27/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	635	mg/L	10	5	I262-04	EMXT	CH2M	
					09/27/2006	GW			METAL	SW 6020A	Arsenic	0.00606	mg/L	0.005	0.0005	I262-04	EMXT	CH2M	
					09/27/2006	GW			METAL	SW 6020A	Chromium	1.57	µg/L	1	0.5	I262-04	EMXT	CH2M	
					09/27/2006	GW			METAL	SW 7199	Hexavalent chromium	1	µg/L	0.2	0.1	I262-04	EMXT	CH2M	
					09/27/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I262-04	EMXT	CH2M	
					09/27/2006	GW			Metals General	SW 6020A	Calcium	69.5	mg/L	1	0.05	I262-04	EMXT	CH2M	
					09/27/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I262-04	EMXT	CH2M	
					09/27/2006	GW			Metals General	SW 6020A	Magnesium	25.7	mg/L	1	0.05	I262-04	EMXT	CH2M	
					09/27/2006	GW			Metals General	SW 6020A	Potassium	4.67	mg/L	1	0.05	I262-04	EMXT	CH2M	
					09/27/2006	GW			Metals General	SW 6020A	Sodium	105	mg/L	1	0.05	I262-04	EMXT	CH2M	
					09/27/2006	GW		Dup	ANION	EPA 300.0	Chloride	137	mg/L	10	2	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	ANION	EPA 353.3	Nitrate as Nitrogen	2.86	mg/L	0.5	0.05	I262-05T	EMXT	CH2M	
					09/27/2006	GW		Dup	ANION	EPA 300.0	Sulfate	191	mg/L	10	5	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	120	mg/L	5	1	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	120	mg/L	5	1	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	GENERAL	EPA 160.1	Total dissolved solids	615	mg/L	10	5	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	METAL	SW 6020A	Arsenic	0.00575	mg/L	0.005	0.0005	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	METAL	SW 6020A	Chromium	1.54	µg/L	1	0.5	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	METAL	SW 7199	Hexavalent chromium	0.957	µg/L	0.2	0.1	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	Metals General	SW 6020A	Calcium	66.8	mg/L	1	0.05	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	Metals General	SW 6020A	Magnesium	24.5	mg/L	1	0.05	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	Metals General	SW 6020A	Potassium	4.55	mg/L	1	0.05	I262-05	EMXT	CH2M	
					09/27/2006	GW		Dup	Metals General	SW 6020A	Sodium	99.5	mg/L	1	0.05	I262-05	EMXT	CH2M	
						Q04	11/14/2006	GW		ANION	EPA 300.0	Chloride	142	mg/L	10	2	K156-02	EMXT	CH2M
							11/14/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	2.91	mg/L	0.5	0.05	K156-02	EMXT	CH2M
							11/14/2006	GW		ANION	EPA 300.0	Sulfate	193	mg/L	10	5	K156-02	EMXT	CH2M
					11/14/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	120	mg/L	5	1	K156-02	EMXT	CH2M		
					11/14/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	120	mg/L	5	1	K156-02	EMXT	CH2M		
					11/14/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	685	mg/L	10	5	K156-02	EMXT	CH2M		
					11/14/2006	GW		METAL	SW 6020A	Arsenic	0.00554	mg/L	0.005	0.0005	K156-02	EMXT	CH2M		

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-41	DOM/ACT			Q04	11/14/2006	GW		METAL	SW 6020A	Chromium	1.41	µg/L	1	0.5	K156-02	EMXT	CH2M	
					11/14/2006	GW		METAL	SW 7199	Hexavalent chromium	1.46 J	µg/L	0.2	0.1	K156-02	EMXT	CH2M	
					11/14/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K156-02	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Calcium	65.1	mg/L	1	0.05	K156-02	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K156-02	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Magnesium	28 J	mg/L	1	0.05	K156-02	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Potassium	4.63	mg/L	1	0.05	K156-02	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Sodium	98.2	mg/L	1	0.05	K156-02	EMXT	CH2M
					11/14/2006	GW	Dup		ANION	EPA 300.0	Chloride	143	mg/L	10	2	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		ANION	EPA 300.0	Nitrate as Nitrogen	2.92	mg/L	0.5	0.05	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		ANION	EPA 300.0	Sulfate	199	mg/L	10	5	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	113	mg/L	5	1	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	113	mg/L	5	1	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		GENERAL	EPA 160.1	Total dissolved solids	730	mg/L	10	5	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		METAL	SW 6020A	Arsenic	0.0054	mg/L	0.005	0.0005	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		METAL	SW 6020A	Chromium	1.38	µg/L	1	0.5	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		METAL	SW 7199	Hexavalent chromium	1.42 J	µg/L	0.2	0.1	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		Metals General	SW 6020A	Calcium	66	mg/L	1	0.05	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		Metals General	SW 6020A	Magnesium	27.9 J	mg/L	1	0.05	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		Metals General	SW 6020A	Potassium	4.67	mg/L	1	0.05	K156-03	EMXT	CH2M
					11/14/2006	GW	Dup		Metals General	SW 6020A	Sodium	98.6	mg/L	1	0.05	K156-03	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-42	DOM/ACT			Q03	09/27/2006	GW		ANION	EPA 300.0	Chloride	54.9	mg/L	10	2	I262-06	EMXT	CH2M	
					09/27/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I262-06	EMXT	CH2M	
					09/27/2006	GW		ANION	EPA 300.0	Sulfate	83.3	mg/L	10	5	I262-06	EMXT	CH2M	
					09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	130	mg/L	5	1	I262-06	EMXT	CH2M	
					09/27/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	130	mg/L	5	1	I262-06	EMXT	CH2M	
					09/27/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	325	mg/L	10	5	I262-06	EMXT	CH2M	
					09/27/2006	GW		METAL	SW 6020A	Arsenic	0.0104	mg/L	0.005	0.0005	I262-06	EMXT	CH2M	
					09/27/2006	GW		METAL	SW 6020A	Chromium	2.29	µg/L	1	0.5	I262-06	EMXT	CH2M	
					09/27/2006	GW		METAL	SW 7199	Hexavalent chromium	1.56	µg/L	0.2	0.1	I262-06	EMXT	CH2M	
					09/27/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I262-06	EMXT	CH2M	
					09/27/2006	GW		Metals General	SW 6020A	Calcium	23.3	mg/L	1	0.05	I262-06	EMXT	CH2M	
					09/27/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I262-06	EMXT	CH2M	
					09/27/2006	GW		Metals General	SW 6020A	Magnesium	10.7	mg/L	1	0.05	I262-06	EMXT	CH2M	
					09/27/2006	GW		Metals General	SW 6020A	Potassium	2.98	mg/L	1	0.05	I262-06	EMXT	CH2M	
					09/27/2006	GW		Metals General	SW 6020A	Sodium	82.9	mg/L	1	0.05	I262-06	EMXT	CH2M	
				Q04	11/15/2006	GW		ANION	EPA 300.0	Chloride	55.4	J mg/L	5	1	K180-04I	EMXT	CH2M	
					11/15/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	0.5	R mg/L	0.5	0.05	K180-04R	EMXT	CH2M	
					11/15/2006	GW		ANION	EPA 300.0	Sulfate	85.6	J mg/L	5	2.5	K180-04I	EMXT	CH2M	
					11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	128	mg/L	5	1	K180-04	EMXT	CH2M	
					11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	128	mg/L	5	1	K180-04	EMXT	CH2M	
					11/15/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	400	mg/L	10	5	K180-04	EMXT	CH2M	
					11/15/2006	GW		METAL	SW 6020A	Arsenic	0.0101	mg/L	0.005	0.0005	K180-04	EMXT	CH2M	
					11/15/2006	GW		METAL	SW 6020A	Chromium	2.08	µg/L	1	0.5	K180-04	EMXT	CH2M	
					11/15/2006	GW		METAL	SW 7199	Hexavalent chromium	2.35	µg/L	1	0.5	K180-04	EMXT	CH2M	
					11/15/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-04	EMXT	CH2M	
					11/15/2006	GW		Metals General	SW 6020A	Calcium	24.8	mg/L	1	0.05	K180-04	EMXT	CH2M	
					11/15/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-04	EMXT	CH2M	
					11/15/2006	GW		Metals General	SW 6020A	Magnesium	10.8	mg/L	1	0.05	K180-04	EMXT	CH2M	
					11/15/2006	GW		Metals General	SW 6020A	Potassium	2.85	mg/L	1	0.05	K180-04	EMXT	CH2M	
					11/15/2006	GW		Metals General	SW 6020A	Sodium	89.5	mg/L	1	0.05	K180-04	EMXT	CH2M	
					11/15/2006	GW		Dup	ANION	EPA 300.0	Chloride	56.4	mg/L	5	1	K180-05	EMXT	CH2M
					11/15/2006	GW		Dup	ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K180-05	EMXT	CH2M
11/15/2006	GW		Dup		ANION	EPA 300.0	Sulfate	85.1	mg/L	5	2.5	K180-05	EMXT	CH2M				
11/15/2006	GW		Dup		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	K180-05	EMXT	CH2M				
11/15/2006	GW		Dup		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	K180-05	EMXT	CH2M				
11/15/2006	GW		Dup	GENERAL	EPA 160.1	Total dissolved solids	415	mg/L	10	5	K180-05	EMXT	CH2M					
11/15/2006	GW		Dup	METAL	SW 6020A	Arsenic	0.0102	mg/L	0.005	0.0005	K180-05	EMXT	CH2M					

Notes:

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Sample Matrix: GW = Groundwater

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Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-42	DOM/ACT			Q04	11/15/2006	GW	Dup	METAL	SW 6020A	Chromium	2.06	µg/L	1	0.5	K180-05	EMXT	CH2M
				11/15/2006	GW	Dup	METAL	SW 7199	Hexavalent chromium	2.14	µg/L	0.4	0.2	K180-05	EMXT	CH2M	
				11/15/2006	GW	Dup	METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-05	EMXT	CH2M	
				11/15/2006	GW	Dup	Metals General	SW 6020A	Calcium	24.8	mg/L	1	0.05	K180-05	EMXT	CH2M	
				11/15/2006	GW	Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-05	EMXT	CH2M	
				11/15/2006	GW	Dup	Metals General	SW 6020A	Magnesium	11	mg/L	1	0.05	K180-05	EMXT	CH2M	
				11/15/2006	GW	Dup	Metals General	SW 6020A	Potassium	2.89	mg/L	1	0.05	K180-05	EMXT	CH2M	
				11/15/2006	GW	Dup	Metals General	SW 6020A	Sodium	88.8	mg/L	1	0.05	K180-05	EMXT	CH2M	

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-43	DOM/ACT			Q03	09/28/2006	GW		ANION	EPA 300.0	Chloride	40.4	mg/L	10	2	I280-01	EMXT	CH2M				
					09/28/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I280-01	EMXT	CH2M				
					09/28/2006	GW		ANION	EPA 300.0	Sulfate	48.1	mg/L	10	5	I280-01	EMXT	CH2M				
					09/28/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	128	mg/L	5	1	I280-01	EMXT	CH2M				
					09/28/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	128	mg/L	5	1	I280-01	EMXT	CH2M				
					09/28/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	260	mg/L	10	5	I280-01	EMXT	CH2M				
					09/28/2006	GW		METAL	SW 6020A	Arsenic	0.00874	mg/L	0.005	0.0005	I280-01	EMXT	CH2M				
					09/28/2006	GW		METAL	SW 6020A	Chromium	1.94	µg/L	1	0.5	I280-01	EMXT	CH2M				
					09/28/2006	GW		METAL	SW 7199	Hexavalent chromium	1.88	µg/L	0.2	0.1	I280-01	EMXT	CH2M				
					09/28/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I280-01	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Calcium	26.2	mg/L	1	0.05	I280-01	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I280-01	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Magnesium	7.96	mg/L	1	0.05	I280-01	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Potassium	3.1	mg/L	1	0.05	I280-01	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Sodium	64.4	mg/L	1	0.05	I280-01	EMXT	CH2M				
					Q04					11/14/2006	GW		ANION	EPA 300.0	Chloride	41.7	mg/L	5	1	K156-05	EMXT
				11/14/2006						GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K156-05	EMXT	CH2M
				11/14/2006						GW		ANION	EPA 300.0	Sulfate	49.6	mg/L	5	2.5	K156-05	EMXT	CH2M
				11/14/2006						GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	120	mg/L	5	1	K156-05	EMXT	CH2M
				11/14/2006						GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	120	mg/L	5	1	K156-05	EMXT	CH2M
				11/14/2006						GW		GENERAL	EPA 160.1	Total dissolved solids	335	mg/L	10	5	K156-05	EMXT	CH2M
				11/14/2006						GW		METAL	SW 6020A	Arsenic	0.00777	mg/L	0.005	0.0005	K156-05	EMXT	CH2M
				11/14/2006						GW		METAL	SW 6020A	Chromium	1.59	µg/L	1	0.5	K156-05	EMXT	CH2M
				11/14/2006						GW		METAL	SW 7199	Hexavalent chromium	1.59	µg/L	0.2	0.1	K156-05	EMXT	CH2M
				11/14/2006						GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K156-05	EMXT	CH2M
				11/14/2006						GW		Metals General	SW 6020A	Calcium	23.3	mg/L	1	0.05	K156-05	EMXT	CH2M
				11/14/2006						GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K156-05	EMXT	CH2M
				11/14/2006						GW		Metals General	SW 6020A	Magnesium	8.45 J	mg/L	1	0.05	K156-05	EMXT	CH2M
				11/14/2006						GW		Metals General	SW 6020A	Potassium	2.88	mg/L	1	0.05	K156-05	EMXT	CH2M
				11/14/2006						GW		Metals General	SW 6020A	Sodium	59	mg/L	1	0.05	K156-05	EMXT	CH2M

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Sample Matrix: GW = Groundwater

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor				
BGS-44	DOM/ACT			Q03	09/28/2006	GW		ANION	EPA 300.0	Chloride	43.7	mg/L	10	2	I280-02	EMXT	CH2M				
					09/28/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I280-02	EMXT	CH2M				
					09/28/2006	GW		ANION	EPA 300.0	Sulfate	54.7	mg/L	10	5	I280-02	EMXT	CH2M				
					09/28/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	128	mg/L	5	1	I280-02	EMXT	CH2M				
					09/28/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	128	mg/L	5	1	I280-02	EMXT	CH2M				
					09/28/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	285	mg/L	10	5	I280-02	EMXT	CH2M				
					09/28/2006	GW		METAL	SW 6020A	Arsenic	0.00937	mg/L	0.005	0.0005	I280-02	EMXT	CH2M				
					09/28/2006	GW		METAL	SW 6020A	Chromium	2.02	µg/L	1	0.5	I280-02	EMXT	CH2M				
					09/28/2006	GW		METAL	SW 7199	Hexavalent chromium	1.85	µg/L	0.2	0.1	I280-02	EMXT	CH2M				
					09/28/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I280-02	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Calcium	26.3	mg/L	1	0.05	I280-02	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I280-02	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Magnesium	8.51	mg/L	1	0.05	I280-02	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Potassium	3.13	mg/L	1	0.05	I280-02	EMXT	CH2M				
					09/28/2006	GW		Metals General	SW 6020A	Sodium	66.4	mg/L	1	0.05	I280-02	EMXT	CH2M				
				Q04					11/14/2006	GW		ANION	EPA 300.0	Chloride	45.1	mg/L	5	1	K156-06	EMXT	CH2M
									11/14/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K156-06	EMXT	CH2M
									11/14/2006	GW		ANION	EPA 300.0	Sulfate	56.8	mg/L	5	2.5	K156-06	EMXT	CH2M
									11/14/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	K156-06	EMXT	CH2M
									11/14/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	K156-06	EMXT	CH2M
									11/14/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	345	mg/L	10	5	K156-06	EMXT	CH2M
									11/14/2006	GW		METAL	SW 6020A	Arsenic	0.00854	mg/L	0.005	0.0005	K156-06	EMXT	CH2M
									11/14/2006	GW		METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	K156-06	EMXT	CH2M
									11/14/2006	GW		METAL	SW 7199	Hexavalent chromium	1.69 J	µg/L	0.2	0.1	K156-06	EMXT	CH2M
									11/14/2006	GW		METAL	SW 6020A	Manganese	0.0112	mg/L	0.01	0.0005	K156-06	EMXT	CH2M
									11/14/2006	GW		Metals General	SW 6020A	Calcium	24.4	mg/L	1	0.05	K156-06	EMXT	CH2M
									11/14/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K156-06	EMXT	CH2M
									11/14/2006	GW		Metals General	SW 6020A	Magnesium	9.29 J	mg/L	1	0.05	K156-06	EMXT	CH2M
									11/14/2006	GW		Metals General	SW 6020A	Potassium	2.94	mg/L	1	0.05	K156-06	EMXT	CH2M
									11/14/2006	GW		Metals General	SW 6020A	Sodium	63	mg/L	1	0.05	K156-06	EMXT	CH2M

Notes:

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Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-45	DOM/ACT			Q03	09/28/2006	GW		ANION	EPA 300.0	Chloride	107	mg/L	10	2	I280-03	EMXT	CH2M	
					09/28/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	1.9	mg/L	0.5	0.05	I280-03	EMXT	CH2M	
					09/28/2006	GW			ANION	EPA 300.0	Sulfate	177	mg/L	10	5	I280-03	EMXT	CH2M
					09/28/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	120	mg/L	5	1	I280-03	EMXT	CH2M
					09/28/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	120	mg/L	5	1	I280-03	EMXT	CH2M
					09/28/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	550	mg/L	10	5	I280-03	EMXT	CH2M
					09/28/2006	GW			METAL	SW 6020A	Arsenic	0.0076	mg/L	0.005	0.0005	I280-03	EMXT	CH2M
					09/28/2006	GW			METAL	SW 6020A	Chromium	1.93	µg/L	1	0.5	I280-03	EMXT	CH2M
					09/28/2006	GW			METAL	SW 7199	Hexavalent chromium	1.77	µg/L	0.2	0.1	I280-03	EMXT	CH2M
					09/28/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I280-03	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Calcium	59.8	mg/L	1	0.05	I280-03	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I280-03	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Magnesium	21.9	mg/L	1	0.05	I280-03	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Potassium	4.43	mg/L	1	0.05	I280-03	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Sodium	105	mg/L	1	0.05	I280-03	EMXT	CH2M

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-46	DOM/ACT			Q03	09/28/2006	GW		ANION	EPA 300.0	Chloride	22.7	mg/L	10	2	I280-04	EMXT	CH2M		
					09/28/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I280-04	EMXT	CH2M		
					09/28/2006	GW			ANION	EPA 300.0	Sulfate	28.2	mg/L	10	5	I280-04	EMXT	CH2M	
						09/28/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	115	mg/L	5	1	I280-04	EMXT	CH2M	
						09/28/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	115	mg/L	5	1	I280-04	EMXT	CH2M	
						09/28/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	190	mg/L	10	5	I280-04	EMXT	CH2M	
						09/28/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	I280-04	EMXT	CH2M	
						09/28/2006	GW		METAL	SW 6020A	Chromium	2.38	µg/L	1	0.5	I280-04	EMXT	CH2M	
						09/28/2006	GW		METAL	SW 7199	Hexavalent chromium	2.2	µg/L	0.2	0.1	I280-04	EMXT	CH2M	
						09/28/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I280-04	EMXT	CH2M	
						09/28/2006	GW		Metals General	SW 6020A	Calcium	23.1	mg/L	1	0.05	I280-04	EMXT	CH2M	
						09/28/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I280-04	EMXT	CH2M	
						09/28/2006	GW		Metals General	SW 6020A	Magnesium	3.55	mg/L	1	0.05	I280-04	EMXT	CH2M	
						09/28/2006	GW		Metals General	SW 6020A	Potassium	1.4	mg/L	1	0.05	I280-04	EMXT	CH2M	
						09/28/2006	GW		Metals General	SW 6020A	Sodium	51.4	mg/L	1	0.05	I280-04	EMXT	CH2M	
						Q04	11/15/2006	GW		ANION	EPA 300.0	Chloride	22.9 J	mg/L	2.5	0.5	K180-09I	EMXT	CH2M
							11/15/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	0.5 R	mg/L	0.5	0.05	K180-09R	EMXT	CH2M
							11/15/2006	GW		ANION	EPA 300.0	Sulfate	29.2 J	mg/L	2.5	1.25	K180-09I	EMXT	CH2M
							11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	118	mg/L	5	1	K180-09	EMXT	CH2M
							11/15/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	118	mg/L	5	1	K180-09	EMXT	CH2M
							11/15/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	245	mg/L	10	5	K180-09	EMXT	CH2M
							11/15/2006	GW		METAL	SW 6020A	Arsenic	ND <0.005	mg/L	0.005	0.0005	K180-09	EMXT	CH2M
							11/15/2006	GW		METAL	SW 6020A	Chromium	1.81	µg/L	1	0.5	K180-09	EMXT	CH2M
							11/15/2006	GW		METAL	SW 7199	Hexavalent chromium	2.44	µg/L	1	0.5	K180-09	EMXT	CH2M
							11/15/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-09	EMXT	CH2M
							11/15/2006	GW		Metals General	SW 6020A	Calcium	23.2	mg/L	1	0.05	K180-09	EMXT	CH2M
							11/15/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-09	EMXT	CH2M
							11/15/2006	GW		Metals General	SW 6020A	Magnesium	3.53 J	mg/L	1	0.05	K180-09	EMXT	CH2M
							11/15/2006	GW		Metals General	SW 6020A	Potassium	1.45	mg/L	1	0.05	K180-09	EMXT	CH2M
							11/15/2006	GW		Metals General	SW 6020A	Sodium	55.6	mg/L	1	0.05	K180-09	EMXT	CH2M

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Sample Matrix: GW = Groundwater

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-47	DOM/ACT			Q03	09/28/2006	GW		ANION	EPA 300.0	Chloride	56.6	mg/L	10	2	I280-05	EMXT	CH2M		
					09/28/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	2.98	mg/L	0.5	0.5	I280-05T	EMXT	CH2M		
					09/28/2006	GW			ANION	EPA 300.0	Sulfate	30.1	mg/L	10	5	I280-05	EMXT	CH2M	
					09/28/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	140	mg/L	5	1	I280-05	EMXT	CH2M	
					09/28/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	140	mg/L	5	1	I280-05	EMXT	CH2M	
					09/28/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	300	mg/L	10	5	I280-05	EMXT	CH2M	
					09/28/2006	GW			METAL	SW 6020A	Arsenic	0.0228	mg/L	0.005	0.0005	I280-05	EMXT	CH2M	
					09/28/2006	GW			METAL	SW 6020A	Chromium	2.94	µg/L	1	0.5	I280-05	EMXT	CH2M	
					09/28/2006	GW			METAL	SW 7199	Hexavalent chromium	2.45	µg/L	0.2	0.1	I280-05	EMXT	CH2M	
					09/28/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I280-05	EMXT	CH2M	
					09/28/2006	GW			Metals General	SW 6020A	Calcium	7.09	mg/L	1	0.05	I280-05	EMXT	CH2M	
					09/28/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I280-05	EMXT	CH2M	
					09/28/2006	GW			Metals General	SW 6020A	Magnesium	ND <1	mg/L	1	0.05	I280-05	EMXT	CH2M	
					09/28/2006	GW			Metals General	SW 6020A	Potassium	1.29	mg/L	1	0.05	I280-05	EMXT	CH2M	
					09/28/2006	GW			Metals General	SW 6020A	Sodium	108	mg/L	1	0.05	I280-05	EMXT	CH2M	
					Q04	11/15/2006	GW			ANION	EPA 300.0	Chloride	59.4	mg/L	5	1	K180-08	EMXT	CH2M
						11/15/2006	GW			ANION	EPA 300.0	Nitrate as Nitrogen	2.7	mg/L	0.5	0.05	K180-08	EMXT	CH2M
						11/15/2006	GW			ANION	EPA 300.0	Sulfate	30.4	mg/L	5	2.5	K180-08	EMXT	CH2M
						11/15/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	125	mg/L	5	1	K180-08	EMXT	CH2M
						11/15/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	125	mg/L	5	1	K180-08	EMXT	CH2M
						11/15/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	380	mg/L	10	5	K180-08	EMXT	CH2M
						11/15/2006	GW			METAL	SW 6020A	Arsenic	0.0185	mg/L	0.005	0.0005	K180-08	EMXT	CH2M
						11/15/2006	GW			METAL	SW 6020A	Chromium	2.28	µg/L	1	0.5	K180-08	EMXT	CH2M
						11/15/2006	GW			METAL	SW 7199	Hexavalent chromium	2.69	µg/L	0.2	0.1	K180-08	EMXT	CH2M
						11/15/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K180-08	EMXT	CH2M
						11/15/2006	GW			Metals General	SW 6020A	Calcium	7.34	mg/L	1	0.05	K180-08	EMXT	CH2M
						11/15/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K180-08	EMXT	CH2M
						11/15/2006	GW			Metals General	SW 6020A	Magnesium	ND <1	mg/L	1	0.05	K180-08	EMXT	CH2M
						11/15/2006	GW			Metals General	SW 6020A	Potassium	1.24	mg/L	1	0.05	K180-08	EMXT	CH2M
				11/15/2006	GW			Metals General	SW 6020A	Sodium	116	mg/L	1	0.05	K180-08	EMXT	CH2M		

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APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-48	DOM/ACT			Q03	09/28/2006	GW		ANION	EPA 300.0	Chloride	20.9	mg/L	10	2	I280-08	EMXT	CH2M	
					09/28/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I280-08	EMXT	CH2M	
					09/28/2006	GW			ANION	EPA 300.0	Sulfate	25	mg/L	10	5	I280-08	EMXT	CH2M
					09/28/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	163	mg/L	5	1	I280-08	EMXT	CH2M
					09/28/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	163	mg/L	5	1	I280-08	EMXT	CH2M
					09/28/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	230	mg/L	10	5	I280-08	EMXT	CH2M
					09/28/2006	GW			METAL	SW 6020A	Arsenic	0.126	mg/L	0.005	0.0005	I280-08	EMXT	CH2M
					09/28/2006	GW			METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	I280-08	EMXT	CH2M
					09/28/2006	GW			METAL	SW 7199	Hexavalent chromium	0.577 J	µg/L	0.2	0.1	I280-08	EMXT	CH2M
					09/28/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I280-08	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Calcium	2.35	mg/L	1	0.05	I280-08	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I280-08	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Magnesium	ND <1	mg/L	1	0.05	I280-08	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Potassium	ND <1	mg/L	1	0.05	I280-08	EMXT	CH2M
					09/28/2006	GW			Metals General	SW 6020A	Sodium	98.9	mg/L	1	0.05	I280-08	EMXT	CH2M

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Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor		
BGS-49	DOM/ACT			Q03	09/28/2006	GW		ANION	EPA 300.0	Chloride	64.2	mg/L	10	2	I280-07	EMXT	CH2M		
					09/28/2006	GW		ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I280-07	EMXT	CH2M		
					09/28/2006	GW		ANION	EPA 300.0	Sulfate	116	mg/L	10	5	I280-07	EMXT	CH2M		
					09/28/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	140	mg/L	5	1	I280-07	EMXT	CH2M		
					09/28/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	140	mg/L	5	1	I280-07	EMXT	CH2M		
					09/28/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	440	mg/L	10	5	I280-07	EMXT	CH2M		
					09/28/2006	GW		METAL	SW 6020A	Arsenic	0.0178	mg/L	0.005	0.0005	I280-07	EMXT	CH2M		
					09/28/2006	GW		METAL	SW 6020A	Chromium	1.83	µg/L	1	0.5	I280-07	EMXT	CH2M		
					09/28/2006	GW		METAL	SW 7199	Hexavalent chromium	1.19	µg/L	0.2	0.1	I280-07	EMXT	CH2M		
					09/28/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I280-07	EMXT	CH2M		
					09/28/2006	GW		Metals General	SW 6020A	Calcium	17.6	mg/L	1	0.05	I280-07	EMXT	CH2M		
					09/28/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I280-07	EMXT	CH2M		
					09/28/2006	GW		Metals General	SW 6020A	Magnesium	9.38	mg/L	1	0.05	I280-07	EMXT	CH2M		
					09/28/2006	GW		Metals General	SW 6020A	Potassium	3.22	mg/L	1	0.05	I280-07	EMXT	CH2M		
					09/28/2006	GW		Metals General	SW 6020A	Sodium	111	mg/L	1	0.05	I280-07	EMXT	CH2M		
					09/28/2006	GW		Dup	ANION	EPA 300.0	Chloride	64.8	mg/L	10	2	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	ANION	EPA 353.3	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	ANION	EPA 300.0	Sulfate	117	mg/L	10	5	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	GENERAL	EPA 160.1	Total dissolved solids	425	mg/L	10	5	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	METAL	SW 6020A	Arsenic	0.0183	mg/L	0.005	0.0005	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	METAL	SW 6020A	Chromium	1.78	µg/L	1	0.5	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	METAL	SW 7199	Hexavalent chromium	1.18	µg/L	0.2	0.1	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	Metals General	SW 6020A	Calcium	19.3	mg/L	1	0.05	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	Metals General	SW 6020A	Magnesium	10	mg/L	1	0.05	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	Metals General	SW 6020A	Potassium	3.56	mg/L	1	0.05	I280-06	EMXT	CH2M	
					09/28/2006	GW		Dup	Metals General	SW 6020A	Sodium	122	mg/L	1	0.05	I280-06	EMXT	CH2M	
						Q04	11/14/2006	GW		ANION	EPA 300.0	Chloride	67.9	mg/L	10	2	K156-07	EMXT	CH2M
							11/14/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K156-07	EMXT	CH2M
							11/14/2006	GW		ANION	EPA 300.0	Sulfate	122	mg/L	10	5	K156-07	EMXT	CH2M
					11/14/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	133	mg/L	5	1	K156-07	EMXT	CH2M		
					11/14/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	133	mg/L	5	1	K156-07	EMXT	CH2M		
					11/14/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	495	mg/L	10	5	K156-07	EMXT	CH2M		
					11/14/2006	GW		METAL	SW 6020A	Arsenic	0.0157	mg/L	0.005	0.0005	K156-07	EMXT	CH2M		

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-49	DOM/ACT			Q04	11/14/2006	GW		METAL	SW 6020A	Chromium	1.77	µg/L	1	0.5	K156-07	EMXT	CH2M	
					11/14/2006	GW		METAL	SW 7199	Hexavalent chromium	0.933 J	µg/L	0.2	0.1	K156-07	EMXT	CH2M	
					11/14/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K156-07	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Calcium	16.8	mg/L	1	0.05	K156-07	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K156-07	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Magnesium	9.99	mg/L	1	0.05	K156-07	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Potassium	2.87	mg/L	1	0.05	K156-07	EMXT	CH2M
					11/14/2006	GW			Metals General	SW 6020A	Sodium	108	mg/L	1	0.05	K156-07	EMXT	CH2M

Notes:

Location Types: DOM = domestic supply, AGR = agricultural supply

Status: ACT = active, INACT= inactive

Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor	
BGS-50	DOM/ACT			Q04	11/13/2006	GW		ANION	EPA 300.0	Chloride	21.8	mg/L	10	2	K142-04	EMXT	CH2M	
					11/13/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K142-04	EMXT	CH2M	
					11/13/2006	GW			ANION	EPA 300.0	Sulfate	33.4	mg/L	10	5	K142-04	EMXT	CH2M
					11/13/2006	GW			GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	165	mg/L	5	1	K142-04	EMXT	CH2M
					11/13/2006	GW			GENERAL	EPA 310.1	Alkalinity, total as CaCO3	165	mg/L	5	1	K142-04	EMXT	CH2M
					11/13/2006	GW			GENERAL	EPA 160.1	Total dissolved solids	310	mg/L	10	5	K142-04	EMXT	CH2M
					11/13/2006	GW			METAL	SW 6020A	Arsenic	0.2	mg/L	0.005	0.0005	K142-04	EMXT	CH2M
					11/13/2006	GW			METAL	SW 6020A	Chromium	ND <1	µg/L	1	0.5	K142-04	EMXT	CH2M
					11/13/2006	GW			METAL	SW 7199	Hexavalent chromium	ND <0.2	µg/L	0.2	0.1	K142-04	EMXT	CH2M
					11/13/2006	GW			METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K142-04	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Calcium	6.52	mg/L	1	0.05	K142-04	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K142-04	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Magnesium	ND <1	mg/L	1	0.05	K142-04	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Potassium	1.3	mg/L	1	0.05	K142-04	EMXT	CH2M
					11/13/2006	GW			Metals General	SW 6020A	Sodium	97.5	mg/L	1	0.05	K142-04	EMXT	CH2M

Notes:

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

APPENDIX D - Complete Analytical Data for Hinkley Background Study Samples (2006)

Location	Type/ Status	Perf. Int-ft	Discrete Dep-ft	Quarter	Sample Date	Sample Matrix	Sample Type	Analyte Group	Method	Parameter	Result	Units	RL	DL	Lab ID	Lab	Contractor
BGS-51	DOM/ACT	160-200		Q04	11/14/2006	GW		ANION	EPA 300.0	Chloride	17.3	mg/L	1	0.2	K156-04	EMXT	CH2M
					11/14/2006	GW		ANION	EPA 300.0	Nitrate as Nitrogen	ND <0.5	mg/L	0.5	0.05	K156-04	EMXT	CH2M
					11/14/2006	GW		ANION	EPA 300.0	Sulfate	22.6	mg/L	1	0.5	K156-04	EMXT	CH2M
					11/14/2006	GW		GENERAL	EPA 310.1	Alkalinity, bicarb as CaCO3	128	mg/L	5	1	K156-04	EMXT	CH2M
					11/14/2006	GW		GENERAL	EPA 310.1	Alkalinity, total as CaCO3	128	mg/L	5	1	K156-04	EMXT	CH2M
					11/14/2006	GW		GENERAL	EPA 160.1	Total dissolved solids	340	mg/L	10	5	K156-04	EMXT	CH2M
					11/14/2006	GW		METAL	SW 6020A	Arsenic	0.0077	mg/L	0.005	0.0005	K156-04	EMXT	CH2M
					11/14/2006	GW		METAL	SW 6020A	Chromium	1.93	µg/L	1	0.5	K156-04	EMXT	CH2M
					11/14/2006	GW		METAL	SW 7199	Hexavalent chromium	1.89 J	µg/L	0.2	0.1	K156-04	EMXT	CH2M
					11/14/2006	GW		METAL	SW 6020A	Manganese	ND <0.01	mg/L	0.01	0.0005	K156-04	EMXT	CH2M
					11/14/2006	GW		Metals General	SW 6020A	Calcium	26.2 J	mg/L	1	0.05	K156-04	EMXT	CH2M
					11/14/2006	GW		Metals General	SW 6020A	Iron	ND <0.5	mg/L	0.5	0.05	K156-04	EMXT	CH2M
					11/14/2006	GW		Metals General	SW 6020A	Magnesium	9.77 J	mg/L	1	0.05	K156-04	EMXT	CH2M
					11/14/2006	GW		Metals General	SW 6020A	Potassium	3.07	mg/L	1	0.05	K156-04	EMXT	CH2M
					11/14/2006	GW		Metals General	SW 6020A	Sodium	63.7 J	mg/L	1	0.05	K156-04	EMXT	CH2M

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Location Types: DOM = domestic supply, AGR = agricultural supply

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Sample Matrix: GW = Groundwater

Sample Type = For a normal field sample the Sample Type is left blank, Dup = Duplicate field sample

Abbreviations: RL=Reporting limit, DL=Detection limit, Lab ID=Laboratory sample number, No data =There are no analytical data from the Monitoring Program for this location.

Validation Qualifiers: J=Concentration quantity is estimated based on data validation criteria, UJ=Not detected at the reporting limit shown. The reporting limit is an estimated quantity. B=Detected concentration is associated with possible blank contribution. R=Results are rejected based on data validation criteria. Data are unuseable.

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(Sorted by Well ID and Quarter)

Well ID	Quarter	Date Sampled	Sample Type*	Lab Code**	SDG+	Lab Sample No.	Field ID on the COC
01-06	Q03	07/27/2006	N	EMXT	06G200	G200-05	01-06_072706
04E-01	Q03	07/25/2006	N	EMXT	06G165	G165-02	04E-01_072506
04E-01	Q04	10/25/2006	N	EMXT	06J279	J279-02	04E-01_102506
06E-01	Q03	07/24/2006	N	EMXT	06G152	G152-01	06E-01_072406
06E-01	Q04	10/25/2006	N	EMXT	06J279	J279-03	TOTEN1_102506
06E-01	Q04	10/25/2006	FD	EMXT	06J279	J279-01	MW-93_102506
27-03	Q03	07/27/2006	N	EMXT	06G200	G200-02	27-03_072706
36-24	Q03	07/27/2006	N	EMXT	06G200	G200-04	36-24_072706
36-25	Q03	07/27/2006	N	EMXT	06G200	G200-03	36-25_072706
BGS-01	Q01	01/31/2006	N	EMXT	06B004	B004-03	BGS-01_013106
BGS-01	Q01	01/31/2006	N	TLI	951327	951327-003	BGS-01_013106
BGS-01	Q02	04/25/2006	N	EMXT	06D191	D191-01	BGS-01_042506
BGS-01	Q03	07/25/2006	N	EMXT	06G165	G165-03	BGS-01_072506
BGS-01	Q04	10/23/2006	N	EMXT	06J236	J236-04	BGS-01_102306
BGS-04	Q01	02/01/2006	N	EMXT	06B015	B015-02	BGS-04_020106
BGS-04	Q01	02/01/2006	N	TLI	951368	951368-002	BGS-04_020106
BGS-04	Q02	04/26/2006	N	EMXT	06D205	D205-07	BGS-04_042606
BGS-04	Q02	04/26/2006	FD	EMXT	06D205	D205-06	MW-91_042606
BGS-04	Q03	07/25/2006	N	EMXT	06G165	G165-10	BGS-04_072506
BGS-04	Q03	07/25/2006	FD	EMXT	06G165	G165-09	MW-92_072506
BGS-04	Q04	10/23/2006	N	EMXT	06J236	J236-05	BGS-04_102306
BGS-05	Q01	01/31/2006	N	EMXT	06B004	B004-10	BGS-05_013106
BGS-05	Q01	01/31/2006	N	TLI	951327	951327-010	BGS-05_013106
BGS-05	Q02	04/25/2006	N	EMXT	06D191	D191-06	BGS-05_042506
BGS-05	Q02	04/25/2006	N	EMXT	06D191	D191-06R	BGS-05_042506
BGS-06	Q01	01/31/2006	N	EMXT	06B004	B004-05	BGS-06_013106
BGS-06	Q01	01/31/2006	N	TLI	951327	951327-005	BGS-06_013106
BGS-06	Q02	04/26/2006	N	EMXT	06D205	D205-01	BGS-06_042606
BGS-06	Q03	07/24/2006	N	EMXT	06G152	G152-04	BGS-06_072406
BGS-06	Q04	10/23/2006	N	EMXT	06J236	J236-01	BGS-06_102306
BGS-06	Q04	10/23/2006	FD	EMXT	06J236	J236-03	MW-90_102306
BGS-09	Q01	01/30/2006	N	EMXT	06A174	A174-01	BGS-09_013006
BGS-09	Q01	01/30/2006	N	TLI	951265	951265-001	BGS-09_013006
BGS-09	Q02	04/24/2006	N	EMXT	06D180	D180-03	BGS-09_042406
BGS-09	Q02	04/24/2006	N	EMXT	06D180	D180-03R	BGS-09_042406
BGS-09	Q03	07/24/2006	N	EMXT	06G152	G152-02	BGS-09_072406
BGS-09	Q03	07/24/2006	FD	EMXT	06G152	G152-03	MW-90_072406
BGS-09	Q04	10/24/2006	N	EMXT	06J257	J257-01	BGS-09_102406
BGS-10	Q01	01/31/2006	N	EMXT	06B004	B004-06	BGS-10_013106
BGS-10	Q01	01/31/2006	N	TLI	951327	951327-006	BGS-10_013106
BGS-10	Q02	04/26/2006	N	EMXT	06D205	D205-03	BGS-10_042606
BGS-10	Q03	07/26/2006	N	EMXT	06G182	G182-03	BGS-10_072606
BGS-10	Q04	10/24/2006	N	EMXT	06J257	J257-02	BGS-10_102406
BGS-12	Q01	01/30/2006	N	EMXT	06A174	A174-02	BGS-12_013006
BGS-12	Q01	01/30/2006	N	TLI	951265	951265-002	BGS-12_013006
BGS-12	Q02	04/24/2006	N	EMXT	06D180	D180-04	BGS-12_042406
BGS-12	Q02	04/24/2006	N	EMXT	06D180	D180-04R	BGS-12_042406
BGS-12	Q03	07/24/2006	N	EMXT	06G152	G152-06	BGS-12_072406
BGS-12	Q04	10/23/2006	N	EMXT	06J236	J236-06	BGS-12_102306

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Well ID	Quarter	Date Sampled	Sample Type*	Lab Code**	SDG+	Lab Sample No.	Field ID on the COC
BGS-13	Q01	01/31/2006	N	EMXT	06B004	B004-04	BGS-13_013106
BGS-13	Q01	01/31/2006	N	TLI	951327	951327-004	BGS-13_013106
BGS-13	Q02	04/27/2006	N	EMXT	06D215	D215-01	BGS-13_042706
BGS-13	Q03	07/25/2006	N	EMXT	06G165	G165-01	BGS-13_072506
BGS-14	Q01	01/31/2006	N	EMXT	06B004	B004-07	BGS-14_013106
BGS-14	Q01	01/31/2006	N	TLI	951327	951327-007	BGS-14_013106
BGS-14	Q02	04/26/2006	N	EMXT	06D205	D205-05	BGS-14_042606
BGS-14	Q03	07/26/2006	N	EMXT	06G182	G182-05	BGS-14_072606
BGS-14	Q04	10/23/2006	N	EMXT	06J236	J236-09	BGS-14_102306
BGS-15	Q01	01/31/2006	N	EMXT	06B004	B004-08	BGS-15_013106
BGS-15	Q01	01/31/2006	N	TLI	951327	951327-008	BGS-15_013106
BGS-15	Q01	01/31/2006	FD	EMXT	06B004	B004-09	BGS-91_013106
BGS-15	Q01	01/31/2006	FD	TLI	951327	951327-009	BGS-91_013106
BGS-15	Q02	04/26/2006	N	EMXT	06D205	D205-04	BGS-15_042606
BGS-15	Q03	07/25/2006	N	EMXT	06G165	G165-11	BGS-15_072506
BGS-15	Q04	10/23/2006	N	EMXT	06J236	J236-07	BGS-15_102306
BGS-16	Q01	01/31/2006	N	EMXT	06B004	B004-02	BGS-16_013106
BGS-16	Q01	01/31/2006	N	TLI	951327	951327-002	BGS-16_013106
BGS-16	Q02	04/24/2006	N	EMXT	06D180	D180-02	BGS-16_042406
BGS-16	Q02	04/24/2006	N	EMXT	06D180	D180-02R	BGS-16_042406
BGS-16	Q03	07/25/2006	N	EMXT	06G165	G165-06	BGS-16_072506
BGS-16	Q04	10/23/2006	N	EMXT	06J236	J236-08	BGS-16_102306
BGS-18	Q01	02/01/2006	N	EMXT	06B015	B015-01	BGS-18_020106
BGS-18	Q01	02/01/2006	N	TLI	951368	951368-001	BGS-18_020106
BGS-18	Q02	04/25/2006	N	EMXT	06D191	D191-03	BGS-18_042506
BGS-18	Q03	07/25/2006	N	EMXT	06G165	G165-07	BGS-18_072506
BGS-18	Q04	10/24/2006	N	EMXT	06J257	J257-09	BGS-18_102406
BGS-19	Q02	04/25/2006	N	EMXT	06D191	D191-02	BGS-19_042506
BGS-19	Q03	07/25/2006	N	EMXT	06G165	G165-08	BGS-19_072506
BGS-19	Q04	10/24/2006	N	EMXT	06J257	J257-10	BGS-19_102406
BGS-19	Q04	10/24/2006	FD	EMXT	06J257	J257-06	MW-92_102406
BGS-22	Q01	01/30/2006	N	EMXT	06A174	A174-03	BGS-22_013006
BGS-22	Q01	01/30/2006	N	TLI	951265	951265-003	BGS-22_013006
BGS-22	Q01	01/30/2006	FD	EMXT	06A174	A174-05	BGS-90_013006
BGS-22	Q01	01/30/2006	FD	TLI	951265	951265-005	BGS-90_013006
BGS-22	Q02	04/25/2006	N	EMXT	06D191	D191-04	BGS-22_042506
BGS-22	Q02	04/25/2006	N	EMXT	06D191	D191-04R	BGS-22_042506
BGS-22	Q03	07/24/2006	N	EMXT	06G152	G152-05	BGS-22_072406
BGS-22	Q04	10/24/2006	N	EMXT	06J257	J257-07	BGS-22_102406
BGS-23	Q01	01/31/2006	N	EMXT	06B004	B004-01	BGS-23_013106
BGS-23	Q01	01/31/2006	N	TLI	951327	951327-001	BGS-23_013106
BGS-23	Q02	04/24/2006	N	EMXT	06D180	D180-01	BGS-23_042406
BGS-23	Q02	04/24/2006	FD	EMXT	06D180	D180-05	MW-90_042406
BGS-23	Q03	07/25/2006	N	EMXT	06G165	G165-05	BGS-23_072506
BGS-23	Q03	07/25/2006	FD	EMXT	06G165	G165-04	MW-91_072506
BGS-23	Q04	10/24/2006	N	EMXT	06J257	J257-08	BGS-23_102406

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Well ID	Quarter	Date Sampled	Sample Type*	Lab Code**	SDG+	Lab Sample No.	Field ID on the COC
BGS-24	Q01	02/02/2006	N	EMXT	06B026	B026-01	BGS-24_020206
BGS-24	Q01	02/02/2006	N	TLI	951421	951421-001	BGS-24_020206
BGS-24	Q02	04/26/2006	N	EMXT	06D205	D205-08	BGS-24-140_042606
BGS-24	Q02	04/26/2006	N	EMXT	06D205	D205-09	BGS-24-100_042606
BGS-24	Q02	04/26/2006	N	EMXT	06D205	D205-10	BGS-24-60_042606
BGS-24	Q03	07/27/2006	N	EMXT	06G200	G200-01	BGS-24_072706
BGS-25	Q01	01/30/2006	N	EMXT	06A174	A174-04	BGS-25_013006
BGS-25	Q01	01/30/2006	N	TLI	951265	951265-004	BGS-25_013006
BGS-25	Q02	04/26/2006	N	EMXT	06D205	D205-02	BGS-25_042606
BGS-25	Q03	07/26/2006	N	EMXT	06G182	G182-06	BGS-25_072606
BGS-25	Q04	10/23/2006	N	EMXT	06J236	J236-02	BGS-25_102306
BGS-27	Q01	02/02/2006	N	EMXT	06B026	B026-03	BGS-27_020206
BGS-27	Q01	02/02/2006	N	TLI	951421	951421-003	BGS-27_020206
BGS-27	Q02	04/25/2006	N	EMXT	06D191	D191-05	BGS-27_042506
BGS-27	Q02	04/25/2006	N	EMXT	06D191	D191-05R	BGS-27_042506
BGS-27	Q03	07/26/2006	N	EMXT	06G182	G182-04	BGS-27_072606
BGS-27	Q04	10/24/2006	N	EMXT	06J257	J257-03	BGS-27_102406
BGS-28	Q03	07/26/2006	N	EMXT	06G182	G182-01	BGS-28_072606
BGS-28	Q04	10/25/2006	N	EMXT	06J279	J279-04	BGS-28_102506
BGS-29	Q03	07/26/2006	N	EMXT	06G182	G182-02	BGS-29_072606
BGS-29	Q03	09/26/2006	N	EMXT	06I248	I248-01	BGS-29_092606
BGS-29	Q04	11/13/2006	N	EMXT	06K142	K142-06	BGS-29_111306
BGS-30	Q03	07/26/2006	N	EMXT	06G182	G182-08	BGS-30_072606
BGS-30	Q03	07/26/2006	FD	EMXT	06G182	G182-07	MW-94_072606
BGS-31	Q03	07/26/2006	N	EMXT	06G182	G182-09	BGS-31_072606
BGS-31	Q03	09/27/2006	N	EMXT	06I262	I262-07	PHABOLT-1_092706
BGS-31	Q04	11/13/2006	N	EMXT	06K142	K142-07	BGS-31_111306
BGS-32	Q03	09/26/2006	N	EMXT	06I248	I248-02	Smith-1_092606
BGS-32	Q03	09/26/2006	N	EMXT	06I248	I248-02T	Smith-1_092606
BGS-32	Q03	09/26/2006	FD	EMXT	06I248	I248-08	MW-90_092606
BGS-32	Q04	11/15/2006	N	EMXT	06K180	K180-02	BGS-32_111506
BGS-33	Q03	09/26/2006	N	EMXT	06I248	I248-03	Vencill-1_092606
BGS-33	Q03	09/26/2006	N	EMXT	06I248	I248-03T	Vencill-1_092606
BGS-33	Q04	11/15/2006	N	EMXT	06K180	K180-01	BGS-33_111506
BGS-34	Q03	09/26/2006	N	EMXT	06I248	I248-04	McConnell-1_092606
BGS-34	Q04	11/13/2006	N	EMXT	06K142	K142-01	BGS-34_111306
BGS-35	Q03	09/26/2006	N	EMXT	06I248	I248-05	Tindell-1_092606
BGS-35	Q04	11/15/2006	N	EMXT	06K180	K180-03	BGS-35_111506
BGS-36	Q03	09/26/2006	N	EMXT	06I248	I248-06	Cruz-1_092606
BGS-36	Q04	11/13/2006	N	EMXT	06K142	K142-02	BGS-36_111306
BGS-37	Q03	09/26/2006	N	EMXT	06I248	I248-07	McCauley-1_092606
BGS-37	Q04	11/13/2006	N	EMXT	06K142	K142-05	BGS-37_111306
BGS-38	Q03	09/27/2006	N	EMXT	06I262	I262-01	NEWMAN-1_092706
BGS-38	Q04	11/13/2006	N	EMXT	06K142	K142-03	BGS-38_111306
BGS-39	Q03	09/27/2006	N	EMXT	06I262	I262-02	ROBBINS-1_092706
BGS-39	Q04	11/15/2006	N	EMXT	06K180	K180-06	BGS-39_111506
BGS-40	Q03	09/27/2006	N	EMXT	06I262	I262-03	Aguilera-1_092706
BGS-40	Q04	11/15/2006	N	EMXT	06K180	K180-07	BGS-40_111506

APPENDIX D
Index to Background Study Chains of Custody and Sample Delivery Groups
(Sorted by Well ID and Quarter)

Well ID	Quarter	Date Sampled	Sample Type*	Lab Code**	SDG+	Lab Sample No.	Field ID on the COC
BGS-41	Q03	09/27/2006	N	EMXT	06I262	I262-04	WILLIAMSON/ARIAS-1_092706
BGS-41	Q03	09/27/2006	N	EMXT	06I262	I262-04T	WILLIAMSON/ARIAS-1_092706
BGS-41	Q03	09/27/2006	FD	EMXT	06I262	I262-05	MW-91_092706
BGS-41	Q03	09/27/2006	FD	EMXT	06I262	I262-05T	MW-91_092706
BGS-41	Q04	11/14/2006	N	EMXT	06K156	K156-02	BGS-41_111406
BGS-41	Q04	11/14/2006	FD	EMXT	06K156	K156-03	MW-90_111406
BGS-42	Q03	09/27/2006	N	EMXT	06I262	I262-06	ALLEY-1_092706
BGS-42	Q04	11/15/2006	N	EMXT	06K180	K180-04	BGS-42_111506
BGS-42	Q04	11/15/2006	N	EMXT	06K180	K180-04I	BGS-42_111506
BGS-42	Q04	11/15/2006	FD	EMXT	06K180	K180-05	MW-91_111506
BGS-43	Q03	09/28/2006	N	EMXT	06I280	I280-01	MELENDEZ-1_092806
BGS-43	Q04	11/14/2006	N	EMXT	06K156	K156-05	BGS-43_111406
BGS-44	Q03	09/28/2006	N	EMXT	06I280	I280-02	GREEN-1_092806
BGS-44	Q04	11/14/2006	N	EMXT	06K156	K156-06	BGS-44_111406
BGS-45	Q03	09/28/2006	N	EMXT	06I280	I280-03	ROGERS-1_092806
BGS-46	Q03	09/28/2006	N	EMXT	06I280	I280-04	ARREDORIDO-1_092806
BGS-46	Q04	11/15/2006	N	EMXT	06K180	K180-09	BGS-46_111506
BGS-46	Q04	11/15/2006	N	EMXT	06K180	K180-09I	BGS-46_111506
BGS-47	Q03	09/28/2006	N	EMXT	06I280	I280-05	MODICA-1_092806
BGS-47	Q03	09/28/2006	N	EMXT	06I280	I280-05T	MODICA-1_092806
BGS-47	Q04	11/15/2006	N	EMXT	06K180	K180-08	BGS-47_111506
BGS-48	Q03	09/28/2006	N	EMXT	06I280	I280-08	VELAZQUEZ-1_092806
BGS-49	Q03	09/28/2006	N	EMXT	06I280	I280-07	RICHARDS-1_092806
BGS-49	Q03	09/28/2006	FD	EMXT	06I280	I280-06	MW-92_092806
BGS-49	Q04	11/14/2006	N	EMXT	06K156	K156-07	BGS-49_111406
BGS-50	Q04	11/13/2006	N	EMXT	06K142	K142-04	BGS-50_111306
BGS-51	Q04	11/14/2006	N	EMXT	06K156	K156-04	BGS-51_111406

Notes:


* Sample Type: N = Normal (or primary) field sample, FD = Field duplicate sample

** Lab Codes: TLI = Truesdail Laboratory Inc., Tustin, CA EMXT = EMAX Laboratory, Inc., Torrance, CA

+SDG = Sample delivery group

Quarter 1 2006

CHAIN OF CUSTODY

		1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com		PO NUMBER: 32 8060.BS.WS.00 EMAX CONTROL NO. * 06A174	
CLIENT CHAMHILL PROJECT HINKLEY BACKGROUND STUDY COORDINATOR KATE EBEL TEL: 510 587-7731 FAX: 510 922-9731		MATRIX CODE DW=Drinking Water GW=Ground Water MW=Waste Water SD=Solid Waste, Sludge SS=Soil/Sediment WP=Wipes, PP=Paint Products AF=Air O=		ANALYSIS REQUIRED Background Metals-19 Cl, Br, SO ₄ , NO ₃ -N-300.0 TDS-160.1 Total Alkalinity 300	
SEND REPORT TO COMPANY CHAMHILL ADDRESS 155 S. GRAND AVE #1000 OAKLAND CA 94612		PRESERVATIVE CODE IC=Ice HC=HCl HN=HNO ₃ SH=NaOH ST=Na ₂ S ₂ O ₃ ZA=Zinc Acetate HS=H ₂ SO ₄		PROJECT CODE: AMMONIA AND N 3502	
SAMPLE ID CLIENT BGS-09-013006 BGS-12-013006 BGS-22-013006 BGS-25-013006 BGS-90-013006		CONTAINER NO. SIZE TYPE 3 1.500L poly 3 2L poly 3 2L poly 3 2L poly 3 2L poly		PRESERVATIVE CODE H ₂ O ₂	
SAMPLING LOCATION DATE TIME BGS-09 1-30-06 1230 BGS-12 1-30-06 1048 BGS-22 1-30-06 1333 BGS-25 1-30-06 1417 BGS-90 1-30-06 1334		MATRIX CODE QC GW GW GW GW GW		COMMENTS Standard	
INSTRUCTIONS Filter all samples @ Lab		COOLER # Temp. (C) 1 2.9		SAMPLE #s	
SAMPLER Kate & Bob		COURIER/AIRBILL RECEIVED BY Refuel Pacific T.I.T 1-30-06 1-31-06 10:12 1-31-06 10:12		DATE 1-30-06 1500 1-31-06 10:12 1-31-06 10:12	

NOTE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and analyzed on the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

Phil Nelson 1-31-06 1445




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CHAIN OF CUSTODY RECORD

951265

COMPANY CH2M HILL - Kate Ebel
 PROJECT NAME HINKLEY BACKGROUNDS STUDY
 PHONE (510) 587-7731 FAX (510) 912-9731
 ADDRESS 155 Grand Ave
Oakland, CA 94612
 F.O. NUMBER _____
 SAMPLERS (SIGNATURE) Kate Ebel

SAMPLE I.D.	DATE	TIME	DESCRIPTION
B65-09_013006	1-30-06	1230	Groundwater
B65-12_013006	1-30-06	1048	Groundwater
B65-22_013006	1-30-06	1333	Groundwater
B65-25_013006	1-30-06	1417	Groundwater
B65-90_013006	1-30-06	1334	Groundwater

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	<u>Kate Ebel</u>	Printed Name	<u>Kate Ebel</u>	Company/ Agency	<u>CH2M HILL</u>	Date/ Time	<u>1-30-06 1500</u>
Signature (Received)	<u>Rafael Davila</u>	Printed Name	<u>Rafael Davila</u>	Company/ Agency	<u>T.H.I.</u>	Date/ Time	<u>1-30-06 3:15</u>
Signature (Relinquished)	<u>[Signature]</u>	Printed Name	<u>[Name]</u>	Company/ Agency		Date/ Time	
Signature (Received)	<u>[Signature]</u>	Printed Name	<u>[Name]</u>	Company/ Agency		Date/ Time	<u>1/30/06 17:45</u>
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	

TURNAROUND TIME Standard
 DATE 1-30-06 PAGE _____ OF _____
 METHODS _____

Rec'd 01/30/06
951265
 COMMENTS
 NUMBER OF CONTAINERS

NUMBER OF CONTAINERS	COMMENTS
2	
2	
2	
2	
2	

For Sample Conditions See Form Attached


**ALERT!!
Level III QC**

TOTAL NUMBER OF CONTAINERS 10

SAMPLE CONDITIONS
 RECEIVED COOL WARM °F
 CUSTODY SEALED YES NO

SPECIAL REQUIREMENTS:
* Lab to filter metals prior to analysis

CHAIN OF CUSTODY

		1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com		PO NUMBER: 328060.BS.WS.00 EMAX CONTROL NO. * 06B004 SAMPLE STORAGE: B2 PROJECT CODE:									
CLIENT: CH2M HILL PROJECT: Hinkley Background Study COORDINATOR: Kate EBEL TEL: (510) 587-7737 FAX: (510) 922-9731 kebe@ch2m.com SEND REPORT TO: above COMPANY: CH2M HILL ADDRESS: 155 Grand Ave, Suite 1000 Oakland, CA 94612 EMAX PM		MATRIX CODE DW=Drinking Water GW=Ground Water WW=Wastewater SS=Soil/Sediment WP=Wipes P=Pure Products AR=Air O=		ANALYSIS REQUIRED Background Metals - 19 + Hg Cl, Br, SO ₄ , NO ₃ -N 300 TDS 160.1 Ammonia as N 350.2									
MATRIX CODE DW=Drinking Water GW=Ground Water WW=Wastewater SS=Soil/Sediment WP=Wipes P=Pure Products AR=Air O=		PRESERVATIVE CODE IC=Ice HC=HCl HN=HNO ₃ SH=NaOH ST=Na ₂ S ₂ O ₃ ZA=Zinc Acetate HS=H ₂ SO ₄		TAT <input type="checkbox"/> Rush _____ hrs. <input type="checkbox"/> Rush _____ days <input type="checkbox"/> 7 days <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input type="checkbox"/> 30 days <input type="checkbox"/> _____ days Standard									
LAB	SAMPLE ID	SAMPLING		CONTAINER		MATRIX CODE	QC	PRESERVATIVE CODE		Cooler #	Temp. (°C)	Sample #s	COMMENTS
		LOCATION	DATE	TIME	NO.			SIZE	TYPE				
1	BGS-23-013106	BGS-23	1-31-06	0851	3	150 mL	Poly						
2	BGS-16-013106	BGS-16	"	0920	"	"	"						
3	BGS-01-013106	BGS-01	"	1015	"	"	"						
4	BGS-13-013106	BGS-13	"	1050	"	"	"						
5	BGS-06-013106	BGS-06	"	1125	"	"	"						
6	BGS-10-013106	BGS-10	"	1306	"	"	"						
7	BGS-14-013106	BGS-14	"	1356	"	"	"						
8	BGS-15-013106	BGS-15	"	1427	"	"	"						
9	BGS-91-013106	BGS-91	"	1445	"	"	"						
10	BGS-05-013106	BGS-05	"	1514	"	"	"						
Instructions: Filter all samples at 196 before analysis													
SAMPLER:													
RELINQUISHED BY:													
RECEIVED BY:													
Date:													
Time:													
Kato Ebel, KAT Ebel, CH2MHILL, 1-31-06, 1600 T.H. 02/01/06 12:05 2-10-06 12:55 (Signatures)													

NOTE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 500 hrs TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for sampler defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY RECORD

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COMPANY CH2M HILL / Kate Ebel
 PROJECT NAME PG&E Hinkley Background Study
 PHONE (510) 587-7731 FAX 510 722-9731
 ADDRESS 155 Grand Ave Suite 1000
Oakland CA 94612
 P.O. NUMBER 328060.BS.WS.90
 SAMPLERS (SIGNATURE) Kate Ebel

SAMPLE I.D.	DATE	TIME	DESCRIPTION
BGS-23-013106	01/31/06	08:51	BGS-23
BGS-06-013106		09:20	BGS-16
BGS-01-013106		10:15	BGS-01
BGS-13-013106		10:50	BGS-13
BGS-06-013106		11:25	BGS-06
BGS-10-013106		13:06	BGS-10
BGS-14-013106		14:27 13:56	BGS-14
BGS15-013106		14:27	BGS-15
BGS91-013106		14:45	BGS-91

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	<u>Kate Ebel</u>	Printed Name	<u>Kate Ebel</u>	Company/ Agency	<u>CH2M HILL</u>	Date/ Time	<u>1-31-06 16:00</u>
Signature (Received)	<u>Rafael Davila</u>	Printed Name	<u>Rafael Davila</u>	Company/ Agency	<u>T.H.I</u>	Date/ Time	<u>1-31-06 4:15</u>
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)	<u>d. Subbeevine</u>	Printed Name	<u>d. Subbeevine</u>	Company/ Agency	<u>721</u>	Date/ Time	<u>1/31/06 18:30</u>
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	

TURNAROUND TIME Normal
 DATE 01/31/06 PAGE 1 OF 2

METHODS

951327

INERS
 COMMENTS

Rec'd 01/31/06
951327

NUMBER

2
2
2
2
2
2
2
2

ALERT!!
Level III QC

PH-7

TOTAL NUMBER OF CONTAINERS
18

SAMPLE CONDITIONS

RECEIVED COOL WARM °F
 CUSTODY SEALED YES NO

SPECIAL REQUIREMENTS:

Filter all samples before Analysis.

-1
-2
3
4
5
6
7
8
9



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CHAIN OF CUSTODY RECORD

TURNAROUND TIME Standard
 DATE 1-31-06 PAGE 2 OF 2

METHODS

COMPANY CH2MHILL
 PROJECT NAME Hinkley Background Study
 PHONE 510 587-4431 FAX 510 922-9431
 ADDRESS 155 Grand Ave #1000
Oakland CA 94612
 P.O. NUMBER 328060, BSL05,00
 SAMPLERS (SIGNATURE) Kate Hill

951327
 ALERT!!
 Level III QC
 NUMBER OF CONTAINERS 2
 COMMENTS PH-7

SAMPLE ID.	DATE	TIME	DESCRIPTION
<u>BCS0508146</u>	<u>1-31-06</u>	<u>1514</u>	<u>Groundwater</u>

DATE/TIME	COMPANY/AGENCY	SIGNATURE	PRINTED NAME
<u>1-31-06</u> <u>1600</u>	<u>CH2M HILL</u>	<u>Kate Hill</u>	<u>Kate Hill</u>
<u>1-31-06</u> <u>4:15</u>	<u>T-K-I</u>	<u>Rafael Davila</u>	<u>Rafael Davila</u>
<u>1/31/06</u> <u>1830</u>	<u>d. Shoburn</u>	<u>d. Shoburn</u>	<u>d. Shoburn</u>

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/Agency	Date/Time
<u>Kate Hill</u>	<u>Kate Hill</u>	<u>CH2M HILL</u>	<u>1-31-06</u> <u>1600</u>
<u>Rafael Davila</u>	<u>Rafael Davila</u>	<u>T-K-I</u>	<u>1-31-06</u> <u>4:15</u>
<u>d. Shoburn</u>	<u>d. Shoburn</u>	<u>d. Shoburn</u>	<u>1/31/06</u> <u>1830</u>

TOTAL NUMBER OF CONTAINERS 2
 SAMPLE CONDITIONS
 RECEIVED COOL WARM °F
 CUSTODY SEALED YES NO
 SPECIAL REQUIREMENTS
Filter for metals
Prior to analysis.



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CHAIN OF CUSTODY RECORD

951368

TURNAROUND TIME Standard PAGE OF

COMPANY CH2M HILL
 PROJECT NAME Hinkley Background Study
 PHONE (510) 587-7731 FAX (510) 922-9731
 ADDRESS 155 Grand Ave, Suite 1000
Oakland, CA 94612
 P.O. NUMBER 328060.BS.WS.00
 SAMPLERS (SIGNATURE) Kat Eb1

DATE	TIME	DESCRIPTION	SAMPLERS (SIGNATURE)
2-1-06	1058	GW	Kat Eb1
2-1-06	1302	GW	Kat Eb1

For Sample Conditions See Form Attached

**ALERT!!
Level III QC**

NUMBER OF CONTAINERS	COMMENTS
2	filter a4
2	samples out lab

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
<i>Kat Eb1</i>	Kat Eb1	CH2M HILL	2-1-06 14:00
<i>Rafael Davila</i>	Rafael Davila	T-L-I	2-1-06 2:00
<i>Sham Bell</i>	Sham Bell	STL	2/1/06 17:30


TOTAL NUMBER OF CONTAINERS 4

SAMPLE CONDITIONS
 RECEIVED COOL WARM OF

CUSTODY SEALED YES NO

SPECIAL REQUIREMENTS:

CHAIN OF CUSTODY

		1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com		PO NUMBER: <u>380600-PH-1500</u> EMAX CONTROL NO. * <u>065026</u>	
CLIENT <u>CHZM HILL</u>		MATRIX CODE		PROJECT CODE:	
PROJECT <u>BACKGROUND STUDY, HINKLEY</u>		DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste SU=Sludge SS=Soil/Sediment WP=Wipes PP=Pump Products AR=Air O=		ANALYSIS REQUIRED	
COORDINATOR <u>Kyle Ebel</u>		PRE-SKIMMING CODE		Rush <input type="checkbox"/> hrs. Rush <input type="checkbox"/> days 7 days <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input type="checkbox"/> 30 days <input type="checkbox"/> days <input type="checkbox"/>	
TEL: <u>(510) 587-7731</u> FAX: <u>(510) 922-9731</u> EMAIL: <u>kobel@chzm.com</u>		IC=Ice HC=HCl HN=HNO3 SH=NaOH ST=Na2S2O3 ZA=Zinc Acetate HS=H2SO4		TAT	
SEND REPORT TO <u>also we</u>		Matrix Code		Background Metals 19 + HS 18, 50, 83, N 300.0 TDS 160.1 Total Alkalinity 310.2 Ammonia as N 350.2	
COMPANY <u>CHZM HILL</u>		CONTAINER		PRESERVATIVE CODE	
ADDRESS <u>155 GRAND AVE, Suite 1000</u> <u>Oakland, CA 94617</u>		NO. SIZE TYPE		QC	
SAMPLE ID		SAMPLING		COMMENTS	
LAB	CLIENT	LOCATION	DATE	TIME	
1	BGS-24-020206		12-06	1915	X
2	BGS-24-020206 EB			1930	X
3	BGS-27-020206			1400	X
4	BGS-27-020206 MS			1400	X
5	BGS-27-020206-MSD			1400	X
6					
7					
8					
9					
0					
Instructions <u>Lab to filter Metals prior to Analysis</u>					
				Cooler #	Temp. (°C)
				BOX	2-5
SAMPLER <u>[Signature]</u>		RELINQUISHED BY <u>[Signature]</u>		RECEIVED BY <u>[Signature]</u>	
		Date		Time	
		12-06		14:30	
		12/10/06		9:15	
		12/10/06			
COURIER/AIRBILL					
Jony Moore P.O.S #860					

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and re-accepted resolved after 1500 hrs. TAT shall start at 0800 hrs. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.



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CHAIN OF CUSTODY RECORD

951421

TURNAROUND TIME Standard
 DATE 2-2-06 PAGE 1 OF 1

COMPANY CH2M HILL
 PROJECT NAME Hickory Background Study
 PHONE 510 587-7731 FAX 510 922-9731
 ADDRESS 155 Grand Ave #1000
Oakland CA 94612
 P.O. NUMBER 328060-BS.WS.00
 SAMPLERS (SIGNATURE) [Signature]

Rec'd 02/02/06
 24c 951421

NUMBERS OF CONTAINERS

SAMPLE I.D.	DATE	TIME	DESCRIPTION	NUMBERS OF CONTAINERS	COMMENTS
BGS-24-exposed	2/2/06	1015	Grandcenter	2	PK=7
BGS-24-exposed	2/2/06	1030		2	PM=6
BGS-27-exposed	2/2/06	1400		2	PM=7
BGS-27-exposed	2/2/06	1400		2	PM=7
BGS-27-exposed	2/2/06	1400		2	PM=7

**ALERT!!!
Level III QC**

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	TOTAL NUMBER OF CONTAINERS
[Signature]	Corbissonde	CH2M HILL	2-2-06 13:30	0
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	SAMPLE CONDITIONS
[Signature]	Rafael Dauk		2-2-06 3:30	RECEIVED COOL <input type="checkbox"/> WARM <input type="checkbox"/> °F
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time	CUSTODY SEALED YES <input type="checkbox"/> NO <input type="checkbox"/>
[Signature]	Rafael Dauk		2-2-06 18:10	SPECIAL REQUIREMENTS: * Lab to filter for details prior to Analysis
Signature (Received)	Printed Name	Company/ Agency	Date/ Time	
[Signature]	Shaburne		2/2/06 18:10	

**FOR Sample Conditions
See Form Attached**

Quarter 2 2006



TRUESDALE LABORATORIES, INC.
 14201 FRANKLIN AVENUE, SUITE 100
 DUBLIN, CA 94568
 (714) 738-6299 FAX (714) 780-6462
 www.truesdale.com

A1/A3 CHAIN OF CUSTODY RECORD
 06D205
 EMAX

TURNAROUND TIME standard
 DATE 4.26.06 PAGE 1 OF 2

COMPANY CH2M HILL / CARRIE CAMPBELL
 PROJECT NAME Hinkley Background Study
 PHONE 510.587.7731 FAX 510.682.9131
 ADDRESS 155 Grand Ave Suite 1000
Oakland, CA 94612
 P.O. NUMBER 328060 BS.WS.00
 SAMPLERS (SIGNATURE) [Signature]

SAMPLE ID.	DATE	TIME	DESCRIPTION	METHODS										COMMENTS		
				C-7	G6	by 602A	TDS	Alkalinity	Background	Meth S-19	NH3-N	350.2	Hg-7A70A		310.0	
1	BGS-06_042606	4-26-06	1211	6w	X	X	X	X	X	X	X	X	X	X	X	5 # Lab to
2	BGS-25_042606	"	1250	6w	X	X	X	X	X	X	X	X	X	X	X	5 filter for
3	BGS-10_042606	"	1330	6w	X	X	X	X	X	X	X	X	X	X	X	5 metals prior
4	BGS-15_042606	"	1409	6w	X	X	X	X	X	X	X	X	X	X	X	5 to sample
5	BGS-14_042606	"	1530	6w	X	X	X	X	X	X	X	X	X	X	X	5 analysis
6	MW-91_042606	"	1415	6w	X	X	X	X	X	X	X	X	X	X	X	5
7	BGS-04_042606 MS	"	1433	6w	X	X	X	X	X	X	X	X	X	X	X	5
8	BGS-04_042606 MS	"	1433	6w	X	X	X	X	X	X	X	X	X	X	X	5
9	BGS-04_042606	"	1435	6w	X	X	X	X	X	X	X	X	X	X	X	5
10	BGS-04_042606	"	per septic tank	6w	X	X	X	X	X	X	X	X	X	X	X	5
				CHAIN OF CUSTODY SIGNATURE RECORD												
Signature (Relinquished)	[Signature]	Printed Name	Kate Ebel	Company/ Agency	CH2M HILL	Date/ Time	4-26-06 16:30								TOTAL NUMBER OF CONTAINERS	45
Signature (Received)	[Signature]	Printed Name	Bill Kelly	Company/ Agency	FDS 705	Date/ Time	4-26-06 16:57								SAMPLE CONDITIONS	9.0°C
Signature (Relinquished)	[Signature]	Printed Name	Bill Kelly	Company/ Agency	FDS 705	Date/ Time	4-26-06 19:18								RECEIVED	COOL <input checked="" type="checkbox"/> WARM <input type="checkbox"/>
Signature (Received)	[Signature]	Printed Name	JON LUND	Company/ Agency	EMA x	Date/ Time	4/26/06 19:08								CUSTODY SEALED	YES <input type="checkbox"/> NO <input type="checkbox"/>
Signature (Relinquished)	[Signature]	Printed Name		Company/ Agency		Date/ Time									SPECIAL REQUIREMENTS:	
Signature (Received)	[Signature]	Printed Name		Company/ Agency		Date/ Time										
Signature (Relinquished)	[Signature]	Printed Name		Company/ Agency		Date/ Time										
Signature (Received)	[Signature]	Printed Name		Company/ Agency		Date/ Time										

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TRUESDAIL LABORATORIES, INC.
 14201 FRANKLIN AVENUE, TUSTIN, CA 92780-7008
 (714) 780-6239 • FAX (714) 730-6482
 www.truesdail.com

CHAIN OF CUSTODY RECORD

06D205

Standard

TURNAROUND TIME
 DATE 4/26/06

PAGE 2 OF 2

COMPANY: CH2M HILL / CARRIE CAMPBELL
 PROJECT NAME: Hinkley Background Study
 PHONE: 510.587.7731 FAX: 510.586.22.9131
 ADDRESS: 155 Grand Ave. Suite 1000
 Oakland, CA 94612
 P.O. NUMBER: 328060.BS.wps.00
 SAMPLERS (SIGNATURE): *[Signature]*

SAMPLE I.D.	DATE	TIME	DESCRIPTION	METHODS		COMMENTS
				NUMBER OF CONTAINERS	NUMBER OF CONTAINERS	
810 BGS-24-140-042606	4-26-06	1158		X	X	* L.G. to
910 BGS-24-100-042606	"	1140		X	X	filter for metals
10 BGS-24-60-042606	"	1125		X	X	prior to sample analysis

CHAIN OF CUSTODY SIGNATURE RECORD

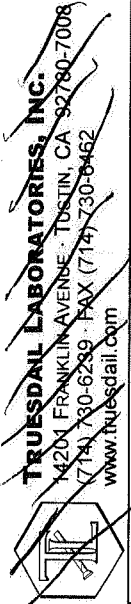
Signature (Relinquished)	<i>[Signature]</i>	Printed Name	Kate Abel	Company/ Agency	CH2M HILL	Date/ Time	4-26-06
Signature (Received)	<i>[Signature]</i>	Printed Name	Bill Kelly	Company/ Agency	PDS 705	Date/ Time	4-26-06
Signature (Relinquished)	<i>[Signature]</i>	Printed Name	Bill Kelly	Company/ Agency	PDS 705	Date/ Time	4-26-06
Signature (Received)	<i>[Signature]</i>	Printed Name	JON / v.n.a	Company/ Agency	emo x	Date/ Time	4/26/06
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	1968
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	
Signature (Relinquished)		Printed Name		Company/ Agency		Date/ Time	
Signature (Received)		Printed Name		Company/ Agency		Date/ Time	

TOTAL NUMBER OF CONTAINERS 9

SAMPLE CONDITIONS

RECEIVED COOL WARM OF
 CUSTODY SEALED YES NO

SPECIAL REQUIREMENTS:



TRUESDAL LABORATORIES, INC.
 14204 FRANKLIN AVENUE, TUSTIN, CA 92780-7008
 (714) 730-6239 FAX (714) 730-6462
 www.truesdall.com

A2 CHAIN OF CUSTODY RECORD
EMAX

06D215
 RETURN/ROUND TIME
 DATE 4-27-06
 PAGE 1 OF 1

COMPANY CH2M HILL / Kate Ebel / Carrie Campbell
 PROJECT NAME Background Study / Hinkley
 PHONE (510) 587-7731 FAX (510) 622-9131
 ADDRESS 155 Grand Ave, Suite 1000
Oakland, CA 94612
 P.O. NUMBER 328060.BS.WS.00
 SAMPLERS (SIGNATURE) Kate Ebel

SAMPLE ID.	DATE	TIME	DESCRIPTION	METHODS										COMMENTS					
				Cr6 by 6020A	Cr6 by 7199	TDS, Cr, Br, SO4, NO3-N	Alkalinity	Background	Hg	NH3-N	350.7	Cr6 by 6020A	Cr6 by 7199		TDS, Cr, Br, SO4, NO3-N	Alkalinity	Background	Hg	NH3-N
1 BGS-13-042706	4-27-06	1145	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5 Filter at
2 36-01-085-042706	"	1227	"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2 lab for
3 36-01-090-042706	"	1247	"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2 metals prior
4 36-01-095-042706	"	1310	"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2 to analysis
5 36-01-103-042706	"	1325	"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2 to analysis

CHAIN OF CUSTODY SIGNATURE RECORD

Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
<i>Kate Ebel</i>	Kate Ebel	CH2M HILL	4-27-06 1:30
<i>Bill Kelly</i>	Bill Kelly	PDS 705	4-27-06 1:30
<i>Bill Kelly</i>	Bill Kelly	PDS 705	4-27-06 1:30
<i>J. S. Kelly</i>	INDIRA RATER	EMAX	4-27-06 1:30
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time
Signature (Relinquished)	Printed Name	Company/ Agency	Date/ Time
Signature (Received)	Printed Name	Company/ Agency	Date/ Time

TOTAL NUMBER OF CONTAINERS 13

SAMPLE CONDITIONS
 RECEIVED COOL WARM °F
 CUSTODY SEALED YES NO

SPECIAL REQUIREMENTS:
T= 2.6 C

Quarter 3 2006

CHAIN OF CUSTODY

EMAX
 LABORATORIES, INC.
 1835 W. 205th Street, Torrance, CA 90501
 Tel #: 310-618-8889 Fax #: 310-618-0818
 Email: info@emaxlabs.com

PO NUMBER: 328060 BS, W500
 EMAX CONTROL NO. *06G152
 SAMPLE STORAGE PROJECT CODE:

CLIENT CH2M HILL	PRESERVATIVE CODE	ANALYSIS REQUIRED	TAT
PROJECT Background Study	IC = Ice	Background Metals - 76020A	<input type="checkbox"/> Rush _____ hrs.
COORDINATOR Carrie Campbell / CH2M Hill	HC = HCl	AIK, Pb and Bi - 3101	<input type="checkbox"/> Rush _____ days
TELEPHONE (510) 251-2888 on-file	HN = HNO3	TDS 16.1	<input type="checkbox"/> 7 days
SEND REPORT TO Carrie Campbell	SH = NaOH	C1,504, NO3-N 300.0	<input type="checkbox"/> 14 days
COMPANY CH2M HILL	ST = Na2S2O3	C6 7199	<input type="checkbox"/> 21 days
ADDRESS 155 Grand Ave, Ste 1000	ZA = Zinc Acetate	Total Cr by 6020A	<input type="checkbox"/> 30 days
Oakland, CA 94612	HS = H2SO4		<input type="checkbox"/> _____ days
EMAX PM	QC		<input checked="" type="checkbox"/> Standard

LAB	SAMPLE ID	CLIENT	SAMPLING			CONTAINER		MATRIX CODE	PRESERVATIVE CODE	COMMENTS
			LOCATION	DATE	TIME	NO.	SIZE			
1	06E-01-072406		06E-01	7/24/06	0928	A	var	poly	GW	Lab to file prior to analysis all samples
2	B6S-09-072406		B6S-09	"	1025	4	var	poly	GW	
3	MW-90-072406		MW-90	"	1015	"	"	"	"	
4	B6S-06-072406		B6S-06	"	1055	"	"	"	"	
5	B6S-22-072406		B6S-22	11/55	1155	4	4	4	4	
6	B6S-12-072406		B6S-12	4	1747	4	4	4	4	
7					1408					
8										
9										
0										

Instructions: Filter all samples @ 176
 Cooler # 1 Temp. (°C) 3.5 C
 Sample #s

SAMPLER	RECEIVED BY
<i>Carrie Campbell</i>	<i>Carrie Campbell</i>
RELINQUISHED BY	COURIER/AIRBILL
<i>Carrie Campbell</i>	
Date	Time
7/24/06	8:10
7/24/06	6:00
7-24	8:45

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical. (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for sampler defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX
 LABORATORIES, INC.
 1835 W. 205th Street, Torrance, CA 90501
 Tel #: 310-618-8889 Fax #: 310-618-0818
 Email: info@emaxlabs.com

PO NUMBER: 328060.BS.WS. **EMAX CONTROL NO. * 06 CT 665**
 SAMPLE STORE # **71 A4** PROJECT CODE:

CLIENT **CH2M HILL**
 PROJECT **Hinkley Background Study**
 COORDINATOR **Carrie Campbell**
 TEL **on file**
 SEND REPORT TO **Carrie Campbell**
 COMPANY **CH2M HILL**
 ADDRESS **155 Grand Ave, Ste 1000**
Oakland, CA 94612

MATRIX CODE: **IC - Ice**
HC - HCl
HW - Waste Water
SH - NaOH
ST - H2SO4
WV - Wipes
ZA - Zinc Acetate
AR - Air
 PRESERVATIVE CODE: **IC - Ice**
HC - HCl
HW - Waste Water
SH - NaOH
ST - H2SO4
WV - Wipes
ZA - Zinc Acetate
AR - Air

LAB	SAMPLE ID	CLIENT	SAMPLING			CONTAINER	MATRIX CODE	QC	ANALYSIS REQUIRED	TAT	COMMENTS
			LOCATION	DATE	TIME						
1	BGS-13-072506		BGS-13	7-25-08	0800	var poly	GW				
2	04E-01-072506		04E-01	"	0833	"	"				
3	BGS-01-072506		BGS-01	"	0920	"	"				
4	MW-91-072506		MW-91	"	0935	"	"				
5	BGS-23-072506		BGS-23	"	1000	"	"				
6	BGS-23-072506-MS		BGS-23	"	1000	"	"				
7	BGS-23-072506-MSD		BGS-23	"	1000	"	"				
8	BGS-16-072506		BGS-16	"	1052	"	"				
9	BGS-18-072506		BGS-18	"	1218	"	"				
10	BGS-19-072506		BGS-19	"	1248	"	"				

LAB	SAMPLE ID	CLIENT	SAMPLING			CONTAINER	MATRIX CODE	QC	ANALYSIS REQUIRED	TAT	COMMENTS
			LOCATION	DATE	TIME						
1	BGS-13-072506		BGS-13	7-25-08	0800	var poly	GW				
2	04E-01-072506		04E-01	"	0833	"	"				
3	BGS-01-072506		BGS-01	"	0920	"	"				
4	MW-91-072506		MW-91	"	0935	"	"				
5	BGS-23-072506		BGS-23	"	1000	"	"				
6	BGS-23-072506-MS		BGS-23	"	1000	"	"				
7	BGS-23-072506-MSD		BGS-23	"	1000	"	"				
8	BGS-16-072506		BGS-16	"	1052	"	"				
9	BGS-18-072506		BGS-18	"	1218	"	"				
10	BGS-19-072506		BGS-19	"	1248	"	"				

Instructions: **Filter all samples prior to analysis**

COOLER # **1 2.8**
2 3.2

SAMPLER: **John P. Thompson**
Billie Ross PPS
 RELINQUISHED BY: **John P. Thompson**
Billie Ross PPS
 DATE: **7/25/08 3:30 PM**
7/25/08 1:45

RECEIVED BY: **Blak Ross**
Billie Ross
 DATE: **7/25/08 3:30**
7/25/08

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX
LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 328060.BS.WS.00
EMAX CONTROL NO. * 06 & 182

CLIENT: CH2M HILL
PROJECT: Background Study
COORDINATOR: Carie Campbell
TEL: (510) 251-2888
SEND REPORT TO: Carie Campbell
COMPANY: CH2M HILL
ADDRESS: 155 Grand Ave Suite 1000
Oakland, CA 94612

PROJECT CODE:
ANALYSIS REQUIRED:
PRESERVATIVE CODE:

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste SL=Sludge, SS=Soil/Sediment, WP=Wipes, PA=Pure Products, AA=Air, O=

LAB	SAMPLE ID	CLIENT	SAMPLING			CONTAINER	NO.	SIZE	TYPE	MATRIX CODE	QC	PRESERVATIVE CODE						COMMENTS	
			LOCATION	DATE	TIME							IC=Ice	HC=HCl	HN=HNO3	SH=NaOH	ST=Na2S2O3	ZA=Zinc Acetate		HS=H2SO4
1	BGS-28-072606		BGS-28	7-26-06	0824	3	var	poly	GW			X	X	X	X	X	X	X	Filter all samples
2	BGS-29-072606		BGS-29	7-26-06	0855	"	"	"	"			X	X	X	X	X	X	X	A (sub paper to analysis)
3	BGS-10-072606		BGS-10	"	0923	"	"	"	"			X	X	X	X	X	X	X	
4	BGS-27-072606		BGS-27	"	1022	"	"	"	"			X	X	X	X	X	X	X	
5	BGS-14-072606		BGS-14	"	1252	"	"	"	"			X	X	X	X	X	X	X	
6	BGS-25-072606		BGS-25	"	1328	"	"	"	"			X	X	X	X	X	X	X	
7	MW-94-072606		MW-94	"	1400	"	"	"	"			X	X	X	X	X	X	X	
8	BGS-30-072606		BGS-30	"	1407	"	"	"	"			X	X	X	X	X	X	X	
9	BGS-31-072606		BGS-31	"	1442	"	"	"	"			X	X	X	X	X	X	X	

Instructions: *Filter all samples at lab - prior to analysis*

Cooler # 1 Temp. (°C) 2.8°C
Cooler # 2 Temp. (°C) 3.2°C

SAMPLER: *John Campbell*

RELINQUISHED BY: *John Campbell* Date: *7/26/06 3:24pm* Time: *3:24pm*

RECEIVED BY: *PDS 7/26/06*

COURIER/AIRBILL: *PDS 7/26/06*

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

AS

CHAIN OF CUSTODY

EMAX LABORATORIES, INC. 1835 W. 205th Street, Torrance, CA 90501
 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com
 PO NUMBER: 328060.BS.WS.00 EMAX CONTROL NO. * 064200

CLIENT: CH2M Hill
 PROJECT: Background Study
 COORDINATOR: Carrie Campbell
 TEL: (510) 251-2888
 SEND REPORT TO: Carrie Campbell
 COMPANY: CH2M Hill
 ADDRESS: 155 Grand Ave, S44 1000
 Oakland, CA, 94612
 EMAX PM: Molly Nguyen

LAB	SAMPLE ID	CLIENT	SAMPLING			CONTAINER			MATRIX CODE	QC	ANALYSIS REQUIRED	TAT
			LOCATION	DATE	TIME	NO.	SIZE	TYPE				
1	B65-24-072706		B65-24	7-27-06	0824	3	var	poly	6W			
2	27-03-072706		27-03		0846	3	var					
3	30-25-072706		30-25		0935	3	var					
4	30-24-072706		30-24		1123	3	var					
5	01-06-072706		01-06		1032	2	var					
6	MW-93-072706		MW-93		1240	2	var					
7	MW-06-072706		MW-06		1253	2	var					
8	MW-35-072706		MW-35		1000	2	var					
9	MW-35-072706-EB		MW-35		1030	3	EB					

Instructions: Lab to filter prior to analysis
 Cooler # 1 Temp. (C) 2.7
 COMMENTS: Lab to filter all samples for metals prior to analysis

SAMPLER	RELINQUISHED BY		RECEIVED BY	
	Date	Time	Date	Time
	7/27/06	3:10	7/27/06	3:09
	7/27/06	18:57		

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX LABORATORIES, INC. 1835 W. 205th Street, Torrance, CA 90501
 Tel #: 310-618-8689 Fax #: 310-618-0816
 Email: info@emaxlabs.com

CLIENT: CH2M HILL
 PROJECT: Back ground study
 COORDINATOR: WC Gable / Carrie Campbell
 TEL: SIO-587-7607
 SEND REPORT TO: Carrie Campbell
 COMPANY: CH2M HILL
 ADDRESS: 155 Grand Ave #1000
 Oakland, CA 94612
 EMAX PM: Molly Nguyen 310-618-8608

PO NUMBER: 349775.01150
 EMAX CONTROL NO. * 061248

PROJECT CODE:
 ANALYSIS REQUIRED:
 Wet Chem's Meth 300.021
 Metn 160-175
 Metn 310-Aluminum
 Back ground Meth 158 by
 Method 60204
 HX Cr (7199)

MATRIX CODE	MATRIX CODE	RESERVATIVE CODE	ANALYSIS REQUIRED	TAT
DW-Drinking Water	IC = Ice			<input type="checkbox"/> Rush hrs.
GW-Cround Water	HC = HCl			<input type="checkbox"/> Rush days
WW-Waste Water	HW=HNO3			<input type="checkbox"/> 7 days
SD-Solid Waste Sl-Sludge	SH=NaOH			<input type="checkbox"/> 14 days
SS-Soil Sediment	ST=AS203			<input type="checkbox"/> 21 days
WP-Wipes P-Tune Products	ZA-Zinc Analyte			<input type="checkbox"/> 30 days
SR-AR	HS=H304			<input type="checkbox"/> days
				<input checked="" type="checkbox"/> Standard

LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE	MATRIX CODE	QC	COMMENTS
1	BGS-29-092606		9/26/06	9:31	3	250ml	Poly	GW		
2	Smith-L-092606		10:00		3					
3	Vencill-L-092606		10:29		3					
4	McConnell-L-092606		10:55		3					
5	Tindell-L-092606		11:18		3					
6	Cruz-L-092606		11:37		3					
7	McCauley-L-092606		11:56		3	250ml				
8	MW-90-092606		10:08		3	250ml				
9										
0										

Instructions: Lab to filter Pico to Metals Analysis
 Cooler # 1 Temp. (C) 3.0
 Sample #s

SAMPLER: John M...
 RELINQUISHED BY: [Signature]
 RECEIVED BY: [Signature]
 DATE/TIME: 9/26/06 3:00pm

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1600 hrs. TAT shall start at 0600 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by EPA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

Rentel Coc - C. Campbell on 09/28/06

Cl, SO4, NO3-N by 300.0

TDS by 160.1 Aik by 310.1

EMAX CONTROL NO. * 06 I 262

EMAX
LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

CLIENT **CH2M HILL**
PROJECT **Background Study**
COORDINATOR **WC Cable / Carrie Campbell**
TEL **510 587-7607**
SEND REPORT TO **Carrie Campbell**
COMPANY **CH2M HILL**
ADDRESS **155 Grand Ave #1000**
Oakland CA 94612
EMAX PM **Molly Nguyen**

CHAIN OF CUSTODY

PO NUMBER: 349775010501
PROJECT CODE: 6020A

MATRIX CODE	PRESERVATIVE CODE	ANALYSIS REQUIRED	TAT
DW=Drinking Water	IC=Ice		<input type="checkbox"/> Rush _____ hrs.
GW=Ground Water	HC=HCl		<input type="checkbox"/> Rush _____ days
WW=Waste Water	HN=HNO3		<input type="checkbox"/> 7 days
SD=Solid Waste SL=Sludge	SH=NaOH		<input type="checkbox"/> 14 days
SS=Soil/Sediment	ST=Na2S2O3		<input type="checkbox"/> 21 days
WP=Wipes TP=Pure Products	ZA=Zinc Acetate		<input type="checkbox"/> 30 days
AR=Air	HS=H2SO4		<input type="checkbox"/> _____ days
0=			<input type="checkbox"/> STANDARD

LAB	CLIENT	LOCATION	DATE	TIME	CONTAINER		PRESERVATIVE CODE	MATRIX CODE	QC	COMMENTS	
					NO.	SIZE					
1	Newman-1-092706		09/28/06	09:35	3	125 Poly	XX	XX	XX	XX	Hex C 7199
2	Robbins-1-092706		10/10	10:10	3	1-125	XX	XX	XX	XX	
3	Aguiar-1-092706		10/20	10:20	3		XX	XX	XX	XX	
4	Williamson/Arias-1-092706		10/20	10:50	3		XX	XX	XX	XX	
5	MW-91-092706		10/20	10:00	3		XX	XX	XX	XX	
6	Alley-1-092706		13/00	13:00	3		XX	XX	XX	XX	
7	Phabolt-1-092706		13:20	13:20	3		XX	XX	XX	XX	

Instructions: **Lab to filter prior to metals analysis**

Cooler # 1 Temp. (°C) 3.8°C

SAMPLER	RELINQUISHED BY	Date	Time	RECEIVED BY
	<i>John D. Munges</i>	9/28/06	10:00	<i>Carrie Campbell</i>
	<i>Carrie Campbell</i>	9/28/06	10:30	<i>Carrie Campbell</i>

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1600 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY



1835 W. 205th Street, Torrance, CA 90501
 Tel #: 310-618-8889 Fax #: 310-618-0818
 Email: info@emaxlabs.com

CLIENT: **CH2M HILL** PROJECT: **Background Study** PO NUMBER: **EMAX CONTROL NO. * 061280**

COORDINATOR: **W.C. Goble / Carrie Campbell** TEL: **510-587-7607** FAX: **EMAIL** MATRIX STORAGE: **Standard**

SEND REPORT TO: **Carrie Campbell** COMPANY: **CH2M HILL** ADDRESS: **155 Grand Ave #1000**

ADDRESS: **Oakland CA 94612** EMAX PM: **Molly Nguyen 310 618-8808**

LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE	MATRIX CODE	QC	ANALYSIS REQUIRED	TAT
1	Melendez-1	092806	09/18/06	09:35	3	125	Poly	BLD		Meth 3000 - Cl, SO4, Nitrate, S, N Meth 100:1 TDS Meth 310:1 Alkalinity Total bicarbonate Meth 6020A As, Ca, Cr, Fe, Mg, Mn, K, Na 799 Hex Cr	<input type="checkbox"/> Rush _____ hrs. <input type="checkbox"/> Rush _____ days <input type="checkbox"/> 7 days <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input type="checkbox"/> 30 days <input type="checkbox"/> _____ days
2	Green-1	092806		09:40	3	125	Poly	BLD			
3	Rogers-1	092806		10:05	3	125	Poly	BLD			
4	Azedorido-1	092806		11:40	3	125	Poly	BLD			
5	Modica-1	092806		12:05	3	125	Poly	BLD			
6	MW92-0	092806		10:10	3	125	Poly	BLD			
7	Richards-1	092806		10:30	3	125	Poly	BLD			
8	Velazquez-1	092806		11:20	3	125	Poly	BLD			
9											
0											

Instructions: **Lab to filter prior to Metal Analysis**

Cooler # **1** Temp. (°C) **3.5** Sample # **1**


SAMPLER: **RELINQUISHED BY** *Charmaine* Date: **9/18/06** Time: **4:00**

RECEIVED BY *Charmaine*

NOTICE: Turn-around time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

Quarter 4 2006

CHAIN OF CUSTODY

		1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com		PO NUMBER: 349775.0145010 EMAX CONTROL NO. * 06V236							
CLIENT CH2M HILL		PROJECT Background Study		PROJECT CODE:							
COORDINATOR Graig Campbell		CONTACT Kate Ebel		ANALYSIS REQUIRED							
TEL 510 251-2888		FAX 510 387-9731		TAT 14 days							
SEND REPORT TO Carrie Campbell		EMAIL kebel@ch2m.com		<input type="checkbox"/> Rush _____ hrs. <input type="checkbox"/> Rush _____ days <input type="checkbox"/> 7 days <input checked="" type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input type="checkbox"/> 30 days							
COMPANY CH2M HILL		ADDRESS 155 Grand Ave Suite 1000		PRESERVATIVE CODE							
ADDRESS Oakland CA 94612		EMAX PM Molly Nguyen		MATRIX CODE							
SAMPLE ID		SAMPLING		CONTAINER							
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE	MATRIX CODE	QC	RESERVATIVE CODE	COMMENTS
1	BGS-06-102306		10/22/06	1410	3	var	poly	Gw		CL504, N03-N ERM 000	Lab to filter
2	BGS-25-102306		"	1457	"	"	"	"		TS(EPALCO-1) PLK, Total-b	prior to metals
3	MW-90-102306		"	1400	"	"	"	"		Hex Cr 7199	analysis
4	BGS-01-102306		"	1012	"	"	"	"			
5	BGS-04-102306		"	1048	"	"	"	"			
6	BGS-12-102306		"	1119	"	"	"	"			
7	BGS-15-102306		"	1250	"	"	"	"			
8	BGS-16-102306		"	1310	"	"	"	"			
9	BGS-14-102306		"	1340	"	"	"	"			
0											
Instructions											
Cooler # _____ Temp. (°C) _____											
SAMPLER						RECEIVED BY					
RELINQUISHED BY						COURIER/AIRBILL					
Date						Time					
10/23/06						3:30					
10/23/06						1826					

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.		1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com		PO NUMBER: 349775.01.WS.01		EMAX CONTROL NO. * 045279	
CLIENT: CH2MHILL				PROJECT CODE:			
PROJECT: Background Study		COORDINATOR: Kate Ebel		ANALYSIS REQUIRED:		TAT: 14 days	
TEL: (510)-251-2888 FAX: (510)987-9733 EMAIL: Kate.Ebel@ch2m.com		SEND REPORT TO: Carrie Campbell		PRESERVATIVE CODE:		<input type="checkbox"/> Rush ___ hrs. <input type="checkbox"/> Rush ___ days <input type="checkbox"/> 7 days <input checked="" type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input type="checkbox"/> 30 days <input type="checkbox"/> ___ days	
COMPANY: CH2MHILL		ADDRESS: 155 Grand Ave Suite 1000 Oakland CA 94612		MATRIX CODE:		COMMENTS:	
EMAX PM: Molly Nguyen		SAMPLE ID:		CONTAINER:		<input type="checkbox"/> Backgrond Metals - 8 <input type="checkbox"/> ALK Metals + Bior EP 310.1 <input type="checkbox"/> TDS (EPA 1631) <input type="checkbox"/> Hex Cr 7199 <input type="checkbox"/> (CL 504 ND-N (EPA 300))	
LAB		CLIENT		MATRIX CODE		PRESERVATIVE CODE	
1 MN-93-102506		102506		QC		<input type="checkbox"/> DW-Drinking Water <input type="checkbox"/> GW-Ground Water <input type="checkbox"/> WW-Waste Water <input type="checkbox"/> SD-Solid Waste Sl-Sludge <input type="checkbox"/> SS-Soil/ Sediment <input type="checkbox"/> WP=Wipes PP=Pure Products <input type="checkbox"/> AR-Air <input type="checkbox"/> O=	
2 04E-01-102506		11 14:28		NO. SIZE TYPE		<input type="checkbox"/> IC = Ice <input type="checkbox"/> HC = HCl <input type="checkbox"/> HN=HNO3 <input type="checkbox"/> SH=NaOH <input type="checkbox"/> ST=Na2S2O3 <input type="checkbox"/> ZA=Zinc Acetate <input type="checkbox"/> HS=H2SO4	
3 Toten-102506		11 13:57		3 Var Poly		<input type="checkbox"/> AR-Air <input type="checkbox"/> O=	
4 06S-28-102506		11 8:49		3 " "		<input type="checkbox"/> DW-Drinking Water <input type="checkbox"/> GW-Ground Water <input type="checkbox"/> WW-Waste Water <input type="checkbox"/> SD-Solid Waste Sl-Sludge <input type="checkbox"/> SS-Soil/ Sediment <input type="checkbox"/> WP=Wipes PP=Pure Products <input type="checkbox"/> AR-Air <input type="checkbox"/> O=	
5							
6							
7							
8							
9							
0							
Instructions							
Cooler #		Temp. (°C)		Sample #s			
1		3-0					
SAMPLER				COURIER/AIRBILL			
RELINQUISHED BY		RECEIVED BY		Date		Time	
John D. Minger		Clarence Fin		10/25/06		3:02	
		Clarence Fin					
		Alan		10/25/06		170	

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

Revised Spec 11/15/06
 C. Campbell 11/14/06

EMAX LABORATORIES, INC. 1835 W. 205th Street, Torrance, CA 90501
 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com

CLIENT: **CH2MHILL**
 PROJECT: **Backaround Study**
 COORDINATOR: **Carrie Campbell / Kate Ebel**
 TEL: **(510) 587-7207 FAX: (510) 622-9063**
 SEND REPORT TO: **Carrie Campbell**
 COMPANY: **CH2MHILL**
 ADDRESS: **155 Grand Ave Suite 1000**
Oakland Ca 94612
 EMAX PM: **Molly Nguyen** 310-618-8668

PO NUMBER: **349775.01 WS.01**
 EMAX CONTROL NO. * **06K156**
 SAMPLE STORAGE

PROJECT CODE:
 ANALYSIS REQUIRED
 PRESERVATIVE CODE
 MATRIX CODE
 CONTAINER
 SAMPLING

LAB	SAMPLE ID	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE	MATRIX CODE	QC	Hex Cr by 7199	TA to 1 Dissc 6204	CI, SO4 Nitros NER300	TDS (EPA 100)	Alkalinity, Total+Big	Method 6020A	AS, Cd, Fe, Mg, Mn, K, Na	COMMENTS
1	Deleon-1-111406		Hinkley	11/14/06	9:18	2	1.25/50	Poly			X	X	X	X	X	X	X	Lab to filter prior to metal analysis.
2	BGS-41-111406			10:10	3						X	X	X	X	X	X	X	ms/msd
3	MW-90-111406			10:16	3						X	X	X	X	X	X	X	
4	BGS-51-111406			10:44	9						X	X	X	X	X	X	X	
5	BGS-43-111406			12:42	3						X	X	X	X	X	X	X	
6	BGS-44-111406			13:01	3						X	X	X	X	X	X	X	
7	BGS-49-111406			14:13	3						X	X	X	X	X	X	X	
8																		
9																		
10																		

Instructions
 Cooler # **1** Temp. (°C) **2-6**
 Sample #s

COURIER/AIRBILL RECEIVED BY
 Date Time
 11/14/06 3:00pm *Choner P...*
 11/14/06 17:35 *[Signature]*

RELINQUISHED BY
 Date Time
 11/14/06 3:00pm *Choner P...*
 11/14/06 17:35 *[Signature]*

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defaced by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

06K/80

EMAX
LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 349775.01 W.5.01

EMAX CONTROL NO. *
SAMPLE STORAGE

PROJECT CODE:

CLIENT: CH2MHILL
PROJECT: Background Study
COORDINATOR: Carrie Campbell / Kate Ebel
TEL: (510) 587-7807 (510) 622-9063
SEND REPORT TO: Carrie Campbell
COMPANY: CH2MHILL
ADDRESS: 155 Grand Ave Suite 1000
Oakland, Ca 94612
EMAX PM: Molly Nguyen (310) 618-8668

MATRIX CODE	PRESERVATIVE CODE	ANALYSIS REQUIRED	TAT
DW=Drinking Water	IC=Ice		<input type="checkbox"/> Rush _____ hrs.
GW=Ground Water	HC=HCl		<input type="checkbox"/> Rush _____ days
WW=Waste Water	HN=HNO3		<input type="checkbox"/> 7 days
SD=Solid Waste SL=Sludge	SH=NaOH		<input checked="" type="checkbox"/> 14 days
SS=Soil/Sediment	ST=Na2S2O3		<input type="checkbox"/> 21 days
WP=Wipes PP=Paint Products	ZA=Zinc Acetate		<input type="checkbox"/> 30 days
AR=Air	HS=H2SO4		<input type="checkbox"/> _____ days
O=			<input type="checkbox"/>

LAB	CLIENT	LOCATION	DATE	TIME	CONTAINER		MATRIX CODE	QC	PRESERVATIVE CODE				COMMENTS	
					NO.	SIZE			TYPE	Hex Cr by 7/99	EPA Method 8210	Method 8200		As, Ca, Cr, Fe, Mg, Mn, Ni, Pb, Zn
1	B65-33-111506	Hinkley	11/15/06	9:25	3	12.5			X	X	X	X	X	Lab to Filter prior to Metal Analysis.
2	B65-32-111506			9:47		3.50			X	X	X	X	X	
3	B65-35-111506			10:18					X	X	X	X	X	
4	B65-42-111506			10:44					X	X	X	X	X	
5	MW-91-111506			10:49					X	X	X	X	X	
6	B65-39-111506			11:09					X	X	X	X	X	
7	B65-40-111506			11:25					X	X	X	X	X	
8	B65-47-111506			12:10					X	X	X	X	X	
9	B65-46-111506			12:30					X	X	X	X	X	

Instructions	Cooler #	Temp. (°C)	Sample #s
		2.7	

SAMPLER	RELINQUISHED BY	Date	Time	RECEIVED BY
	John B. Minger	11/15/06	2:45pm	Clarence Pava
		11/15/06	17:25	Ja alcantara 11/15/06

NOTICE: Turn-around time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

Appendix E
USGS Theory and Method for Chromium
Isotope Evaluation

USGS Theory and Method for Chromium Isotope Evaluation

This appendix presents the theory and procedures for the chromium isotope analysis collected at the Hinkley site in 2006. The theory and approach for data evaluation were previously presented to the Water Board in the Work Plan (CH2M HILL, 2004a). This discussion is divided into the following components:

- Theory of Chromium Isotopes
- Sampling Processing and Analysis Procedures
- Approach for Data Evaluation

The work Plan called for the analysis of 10 samples. In total, 15 wells in or adjacent to the inferred groundwater plume, were sampled for analysis of chromium speciation and isotopic composition. These samples were sent to the USGS laboratory in Menlo Park, California. The samples were then analyzed to determine the ratio of ^{53}Cr to ^{52}Cr ($\delta^{53}\text{Cr}$), measured in tenths of a percent (‰).

E.1 Theory

Chromium has four stable isotopes: ^{50}Cr , ^{52}Cr , ^{53}Cr , and ^{54}Cr . Reduction of oxidized aqueous species of other redox sensitive elements such as selenium (Johnson et al., 1999) tends to enrich the products in the light isotopes because they preferentially react, and the residual reactants become progressively enriched in the heavier isotopes as reduction proceeds. In these cases, the breakage of the bond with oxygen requires significant energy promoting the isotopic fractionation and is the rate-limiting step in the reduction reaction. If chromium behaves the same way as other redox sensitive elements, then variations in the isotopic composition of chromium in groundwater along a flowpath from a suspected chromium source could be used to determine the extent of chromium reduction that has occurred.

Ellis et al. (2002) demonstrated that chromium isotopes are substantially fractionated during abiotic reduction of Cr(VI) to Cr(III). For example, progressive reduction of Cr(VI) in a magnetite slurry, buffered at pH~6 in order to minimize sorption of $(\text{Cr}_2\text{O}_4^{2-})$ and $(\text{HCr}_2\text{O}_4^-)$, resulted in progressively increasing $\delta^{53}\text{Cr}$ of the remaining dissolved Cr(VI) ($\delta^{53}\text{Cr}$ is the per mil difference in measured $^{53}\text{Cr}/^{52}\text{Cr}$ relative to that of NIST 979, an accepted chromium isotope standard). Using a Rayleigh fractionation model in which Cr(III), once produced, is immediately removed from further reaction (e.g., by sorption onto mineral surfaces), an instantaneous fractionation factor $\alpha_{\text{Cr(III)-Cr(VI)}} = 0.9965$ was calculated for the reduction reaction. In other words, after the reaction progressed to 80 percent completion, the remaining Cr(VI) had $\delta^{53}\text{Cr}$ 5.6 parts per thousand (‰) greater than the original Cr(VI); at 90 percent completion, the difference was greater than 8‰; and so on. Chromium reduction experiments using natural magnetite-bearing and microbe-rich aquifer sediments, including

autoclaved controls, gave essentially identical results, suggesting that at least for these sediments the reduction mechanism was abiotic.

Ellis et al. (2004) demonstrated that chromium isotopes are not significantly fractionated during sorption of Cr(VI) aqueous species onto γ -Al₂O₃ and α -goethite substrates at circum-neutral pH. Similarly, no significant fractionation was observed during sorption of Cr(VI) onto γ -Al₂O₃ at pH=4. In contrast, a kinetic isotope effect was observed during sorption of Cr(VI) onto α -goethite at pH=4, with $\delta^{53}\text{Cr}$ of the initial sorbed Cr(VI) being 3.5‰ less than that of the coexisting aqueous Cr(VI); however, the isotopic contrast essentially disappeared as the 12-hour experiment progressed. Thus, these workers concluded that sorption of Cr(VI) probably has only a secondary effect on the isotopic composition of dissolved chromium along groundwater flowpaths in most natural aquifer systems, although effects may be magnified at plume edges or fronts.

Equilibrium isotope fractionation between aqueous Cr(III) and Cr(VI) may be important in situations where the Cr(III)/Cr(VI) ratio of dissolved species is large (i.e., >1). Theoretical estimates of equilibrium chromium isotope fractionation between chromium aqueous species at 25°C (Schauble, 2004) indicate that $\delta^{53}\text{Cr}$ of Cr(VI) will be ~6.6‰ greater than that of Cr(III). Experiments are currently under way at the USGS in Menlo Park, California to determine the practical fractionation factors of the equilibrium process, as well as to determine if natural chromium oxidation mechanisms such as oxidation of Cr(III) on mixed-valence manganese oxide surfaces promote fractionation of the chromium isotopes. However, it is important to recognize that the equilibrium effect on $\delta^{53}\text{Cr}$ of Cr(VI) will decrease (i.e., at higher pH) as the Cr(III)/Cr(VI) ratio of dissolved species decreases, due to isotope mass balance considerations. (Thomas et al., 1996).

E.2 Sampling Processing and Analysis Procedures

Samples covering a broad range of chromium concentrations (from 0.8 to 2665 ppb Cr(VI)) were collected from wells within and adjacent to the inferred plume at and downgradient from the compressor station. One liter of filtered, unacidified water was collected from each well. The samples were immediately chilled on ice and shipped to the Metal Isotope Laboratory at the USGS in Menlo Park for processing.

Upon receipt of the samples, each sample was immediately measured for total Cr concentration using inductively coupled plasma mass spectrometry. Processing for isotopic analysis was then initiated by operationally separating the hexavalent and trivalent Cr fractions using ion exchange chromatography. The goal of the separation was to obtain approximately 500 nanograms of hexavalent Cr for isotopic analysis, making the assumption that >90 percent of the Cr in each sample was hexavalent. The amount of water necessary to supply 550ng of Cr was loaded directly onto anion exchange resin columns to accomplish the separation. All samples were processed through the columns within 24 hours of receipt at the lab.

E.2.1 Sample Processing

In detail, for samples having greater than 100ppb total Cr, an aliquot of water appropriate for each sample was loaded directly onto 2mL of anion exchange resin contained in a Teflon column. Teflon distilled acids used throughout these procedures were produced "in house"

under sub-boiling conditions. The sample was washed with 30mL of 0.01N HCl, and the retained Cr fraction was then eluted from the column with a mixture of 12mL of 6N HCl and 500 μ L of Ultrapure 30 percent H₂O₂. This step is designed to assist with reduction of the Cr from hexavalent to trivalent redox state. 100 μ L of a mixed ⁵⁰Cr-⁵⁴Cr “double spike” solution was added to the sample, as an internal standard for the mass spectrometry step. Next, the retained Cr fraction was taken to dryness on a hot plate in a Teflon beaker. In order to destroy organics inevitably obtained from the ion exchange resin column when using the 30 percent H₂O₂, the dried residue was treated with successive additions of 200 μ L of aqua regia (a mixture of 6N HCl and concentrated HNO₃) and 50 μ L of 30 percent H₂O₂. This was again taken to dryness on a hot plate until only a small spot (containing anions and the Cr as trivalent species) was visible on the bottom of the beaker. The sample was then re-dissolved in 1mL of 0.1N HCl and was loaded directly onto a second exchange column containing 2mL of anion exchange resin. The column was washed with 10mL of 0.1N HCl and this wash fraction (containing the Cr(III)) was collected in a Teflon beaker. To remove any alkalis introduced during the processing and to eradicate the organics, the collected fraction was then loaded directly onto a third ion exchange column containing 2mL of cation exchange resin. The column was then washed with an additional 2mL of 0.1N HCl and 2mL of 1N HCl which were collected into the same beaker. A substantial proportion of the Cr was observed in this collected fraction, indicating that trivalent Cr aqueous species other than “hexaquo” Cr(III) (i.e., Cr(H₂O)₆³⁺) were present. The column was then washed with 20mL of 1N HCl to pass any alkalis. Cr retained on the column was then eluted with 10mL of 6N HCl and this fraction was added to the initial fraction collected off this column. The sample was then taken to dryness on a hot plate in a Teflon beaker.

For samples having less than 100ppb total Cr, the process to this point was identical except that a larger anion exchange column (5mL resin) was used in the first step mainly to deal with the large amount of sulfate introduced from the sample. Proportionally more acid was washed through the anion exchange column during the two passes (first with Cr as an anion, then with Cr as a cation as outlined above). The 2mL cation exchange resin column was used for the alkali cleanup step.

In all cases, the final dried sample appeared as a small brown mass on the bottom of the beaker. After one or two additions of 200 μ L of aqua regia and 50 μ L of 30 percent H₂O₂ taken to dryness on a hot plate, only an extremely small blue spot was visible on the bottom of the beaker. As a final amendment prior to loading the sample on wire ribbon filaments for mass spectrometry, 10 μ g of colloidal silica and 100 μ L of 0.1N HCl saturated with boric acid was added to each beaker and taken to dryness. (Johnson and Bullen, 2004; USGS, 2003)

E.2.2 Mass Spectrometry

Samples were loaded directly onto tantalum wire ribbon filaments using 5 μ L of distilled H₂O to dissolve the solid residue in each beaker. The liquid was taken to dryness and a set of samples along with a standard (NIST 979) was introduced into the thermal ionization mass spectrometer (TIMS). When a vacuum of 10⁻⁸ torr was achieved, samples were analyzed successively for isotopic composition. Each sample was heated to approximately 1050°C over a 10-minute period and allowed to sit for several minutes as a filament curing stage. The filament was then heated until Cr ions appeared (typically at 1100-1200°C). A stable ion beam of 300mV or greater was focused on the ⁵²Cr beam. Data was collected as a

series of scans each consisting of two measurements: ^{50}Cr and ^{52}Cr simultaneously for 4 seconds, then ^{52}Cr , ^{53}Cr and ^{54}Cr simultaneously for 4 seconds. Blocks of data consisting of ten scans each, separated by a measurement of baseline and peak centers, were collected over a period ranging from one to two hours. As each block finished, the raw block values for $^{50}\text{Cr}/^{52}\text{Cr}$, $^{53}\text{Cr}/^{52}\text{Cr}$ and $^{54}\text{Cr}/^{52}\text{Cr}$ ratios were entered into a spreadsheet algorithm that mathematically extracts the double spike from the measured composition of the double spike-sample mixture. The result is a calculation of the $^{50}\text{Cr}/^{52}\text{Cr}$ ratio of the sample.

The analytical strategy was to collect at least 6 blocks of data, with a target of $2\sigma=0.15\%$ or better on the block average of the $^{50}\text{Cr}/^{52}\text{Cr}$ ratio ($2\sigma = 95$ percent confidence level, or 2 times the standard deviation of the block average divided by the square root of the number of measurements, $n=6$). If that precision was not obtained with 6 blocks of data, then an additional 2 blocks of data were collected, the high and low values were removed, and the statistical test redone. This continued until the 2σ target was reached, with as few as 6 blocks of data but typically with 10 blocks of data, and in some cases with as many as 16 blocks of data. With this strategy, the reported isotope compositions of all samples are the result of 60 scans of the ion beam. There are several possible causes of outlier block values, including occasional electronic noise during baseline or peak center measurement, instability of the ion beams and organic isobaric interferences.

Twelve determinations of the $^{53}\text{Cr}/^{52}\text{Cr}$ ratio of the NIST 979 Cr standard over the course of the work on the Hinkley samples yielded an average value of 0.113381 ($2\sigma=0.11\%$). The value reported by NIST for this standard is 0.113392.

E.3 Data Evaluation Approach

The spatial distribution of chromium isotope compositions of groundwater throughout the plume was evaluated based on potential fractionation patterns, since the reduction of dissolved Cr(VI) can be an important mechanism that causes measurable chromium isotope fractionation in aquifers. Therefore, the concentration and chromium isotope composition of the original "pool" of chromium from a sample at the compressor station, and those along the downgradient flowpath were collected to determine if the chromium isotope composition of downgradient samples could be predicted based solely on their measured Cr(VI) concentrations using a simple Rayleigh model and the fractionation factor reported by Ellis et al. (2002). For example, if $\delta^{53}\text{Cr}$ of the original "pool" of Cr(VI) is 0‰ and the concentration is 1 ppm, then a downgradient groundwater sample having 0.1 ppm Cr(VI) (i.e., 90 percent completion of the reduction reaction) would have $\delta^{53}\text{Cr}$ of ~8‰ if reduction of Cr(VI) was the only process causing decreasing chromium concentrations along the flowpath.

In any particular setting, downgradient groundwater chromium concentrations can be compared to those of suspected sources, and maximum chromium isotope compositions can be predicted. If the chromium isotope composition of the downgradient water sample is not as great as that predicted by the fractionation model, then the chromium in that downgradient water sample either was not derived from the suspected source "pool" or has been diluted by chromium having a different isotopic composition from another source (mixing model approach). This approach assumes that hydrologic factors that can cause

decreasing concentrations of dissolved constituents (e.g., dispersion, diffusion, mixing) can be taken into account using additional geochemical parameters.

The isotope evaluation is presented in Section 4.2 of the report.

Appendix F

Data Requiring Validation Flags

Appendix F

Background Study Sampling Data Requiring Data Validation Qualifiers

SDG*	Lab Sample ID	Field Sample ID	Well ID	Sample Date	Sample Type Code	Analyte Method	Analyte	Result	Validation Qualifier	Reason Result is Qualified	Reporting Limit	Detection Limit	Units
06A174	A174-03	BGS-22_013006	BGS-22	01/30/2006	N	EPA 160.1	Total dissolved solids	240	J	Field duplicate exceeds RPD criteria	10	5	mg/L
	A174-05	BGS-90_013006	BGS-22	01/30/2006	FD	EPA 160.1	Total dissolved solids	965	J	Field duplicate exceeds RPD criteria	10	5	mg/L
	A174-03	BGS-22_013006	BGS-22	01/30/2006	N	SW 6020A	Zinc (dissolved)	0.102	J	Field duplicate exceeds RPD criteria	0.02	0.005	mg/L
	A174-05	BGS-90_013006	BGS-22	01/30/2006	FD	SW 6020A	Zinc (dissolved)	0.128	J	Field duplicate exceeds RPD criteria	0.02	0.005	mg/L
06D180	D180-01	BGS-23_042406	BGS-23	04/24/2006	N	SW 6020A	Manganese (dissolved)	0.006	J	Field duplicate exceeds RPD criteria (primary sample was detected, the FD was non-detect (ND))	0.001	0.0005	mg/L
	D180-01	BGS-23_042406	BGS-23	04/24/2006	N	SW 7199	Hexavalent chromium	1.57	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L
	D180-05	MW-90_042406	BGS-23	04/24/2006	FD	SW 7199	Hexavalent chromium	1.48	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L
06D191	D191-01	BGS-01_042506	BGS-01	04/25/2006	N	SW 6020A	Zinc (dissolved)	0.0269	J	LCS recovery greater than criteria	0.02	0.005	mg/L
	D191-02	BGS-19_042506	BGS-19	04/25/2006	N	SW 6020A	Zinc (dissolved)	0.0341	J	LCS recovery greater than criteria	0.02	0.005	mg/L
	D191-03	BGS-18_042506	BGS-18	04/25/2006	N	SW 6020A	Zinc (dissolved)	0.0399	J	LCS recovery greater than criteria	0.02	0.005	mg/L
	D191-04	BGS-22_042506	BGS-22	04/25/2006	N	SW 6020A	Zinc (dissolved)	0.152	J	LCS recovery greater than criteria	0.02	0.005	mg/L
	D191-05	BGS-27_042506	BGS-27	04/25/2006	N	SW 6020A	Zinc (dissolved)	0.0564	J	LCS recovery greater than criteria	0.02	0.005	mg/L
06G182	G182-01	BGS-28_072606	BGS-28	07/26/2006	N	SW 7199	Hexavalent chromium	2.07	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	G182-02	BGS-29_072606	BGS-29	07/26/2006	N	SW 7199	Hexavalent chromium	1.95	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	G182-03	BGS-10_072606	BGS-10	07/26/2006	N	SW 7199	Hexavalent chromium	0.247	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	G182-04	BGS-27_072606	BGS-27	07/26/2006	N	SW 7199	Hexavalent chromium	1.38	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	G182-05	BGS-14_072606	BGS-14	07/26/2006	N	SW 7199	Hexavalent chromium	0.223	J	Continuing calibration recovery less than lower control limit, Holding time exceeded	0.2	0.1	µg/L
	G182-06	BGS-25_072606	BGS-25	07/26/2006	N	SW 7199	Hexavalent chromium	1.31	J	Holding time exceeded	0.2	0.1	µg/L
	G182-07	MW-94_072606	BGS-30	07/26/2006	FD	SW 7199	Hexavalent chromium	2.31	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	G182-08	BGS-30_072606	BGS-30	07/26/2006	N	SW 7199	Hexavalent chromium	2.29	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	G182-09	BGS-31_072606	BGS-31	07/26/2006	N	SW 7199	Hexavalent chromium	1.12	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
06G200	G200-04	36-24_072706	36-24	07/27/2006	N	SW 7199	Hexavalent chromium	1.64	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	G200-05	01-06_072706	01-06	07/27/2006	N	SW 7199	Hexavalent chromium	0.2	UJ	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L

Appendix F

Background Study Sampling Data Requiring Data Validation Qualifiers

SDG*	Lab Sample ID	Field Sample ID	Well ID	Sample Date	Sample Type Code	Analyte Method	Analyte	Result	Validation Qualifier	Reason Result is Qualified	Reporting Limit	Detection Limit	Units
06I248	I248-01	BGS-29_092606	BGS-29	09/26/2006	N	SW 7199	Hexavalent chromium	1.74	J	Laboratory accuracy and precision criteria not met	0.2	0.1	µg/L
	I248-02	Smith-1_092606	BGS-32	09/26/2006	N	SW 7199	Hexavalent chromium	1.21	J	Continuing calibration recovery greater than upper control limit, Field duplicate exceeds RPD criteria, Holding time exceeded	0.2	0.1	µg/L
	I248-03	Vencill-1_092606	BGS-33	09/26/2006	N	SW 7199	Hexavalent chromium	0.862	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	I248-04	McConnell-1_092606	BGS-34	09/26/2006	N	SW 7199	Hexavalent chromium	1.23	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	I248-05	Tindell-1_092606	BGS-35	09/26/2006	N	SW 7199	Hexavalent chromium	1.5	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	I248-06	Cruz-1_092606	BGS-36	09/26/2006	N	SW 7199	Hexavalent chromium	2.1	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	I248-07	McCauley-1_092606	BGS-37	09/26/2006	N	SW 7199	Hexavalent chromium	1.34	J	Continuing calibration recovery less than lower control limit	0.2	0.1	µg/L
	I248-08	MW-90_092606	BGS-32	09/26/2006	FD	SW 7199	Hexavalent chromium	1.07	J	Continuing calibration recovery less than lower control limit, Field duplicate exceeds RPD criteria	0.2	0.1	µg/L
06I280	I280-08	VELAZQUEZ-1_092806	BGS-48	09/28/2006	N	SW 7199	Hexavalent chromium	0.577	J	Matrix spike recovery less than the lower limit	0.2	0.1	µg/L
	J236-04	BGS-01_102306	BGS-01	10/23/2006	N	SW 7199	Hexavalent chromium	0.328	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L
	J236-05	BGS-04_102306	BGS-04	10/23/2006	N	SW 7199	Hexavalent chromium	2.6	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L
	J236-06	BGS-12_102306	BGS-12	10/23/2006	N	SW 7199	Hexavalent chromium	0.335	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L
06J257	J257-07	BGS-22_102406	BGS-22	10/24/2006	N	EPA 160.1	Total dissolved solids	3290	R	Laboratory accuracy and precision criteria not met	10	5	mg/L
06K142	K142-01	BGS-34_111306	BGS-34	11/13/2006	N	SW 6020A	Magnesium (dissolved)	9.82	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K142-02	BGS-36_111306	BGS-36	11/13/2006	N	SW 6020A	Magnesium (dissolved)	12	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K142-03	BGS-38_111306	BGS-38	11/13/2006	N	SW 6020A	Magnesium (dissolved)	11.7	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K142-05	BGS-37_111306	BGS-37	11/13/2006	N	SW 6020A	Magnesium (dissolved)	11	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K142-06	BGS-29_111306	BGS-29	11/13/2006	N	SW 6020A	Magnesium (dissolved)	9.52	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K142-07	BGS-31_111306	BGS-31	11/13/2006	N	SW 6020A	Magnesium (dissolved)	12	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L

Appendix F

Background Study Sampling Data Requiring Data Validation Qualifiers

SDG*	Lab Sample ID	Field Sample ID	Well ID	Sample Date	Sample Type Code	Analyte Method	Analyte	Result	Validation Qualifier	Reason Result is Qualified	Reporting Limit	Detection Limit	Units
06K156	K156-04	BGS-51_111406	BGS-51	11/14/2006	N	SW 6020A	Calcium (dissolved)	26.2	J	Matrix spike recovery less than the lower limit	1	0.05	mg/L
	K156-02	BGS-41_111406	BGS-41	11/14/2006	N	SW 6020A	Magnesium (dissolved)	28	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K156-03	MW-90_111406	BGS-41	11/14/2006	FD	SW 6020A	Magnesium (dissolved)	27.9	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K156-04	BGS-51_111406	BGS-51	11/14/2006	N	SW 6020A	Magnesium (dissolved)	9.77	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K156-05	BGS-43_111406	BGS-43	11/14/2006	N	SW 6020A	Magnesium (dissolved)	8.45	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K156-06	BGS-44_111406	BGS-44	11/14/2006	N	SW 6020A	Magnesium (dissolved)	9.29	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K156-04	BGS-51_111406	BGS-51	11/14/2006	N	SW 6020A	Sodium (dissolved)	63.7	J	Matrix spike recovery less than the lower limit, Matrix spike duplicate recovery criteria less than the lower limit	1	0.05	mg/L
	K156-02	BGS-41_111406	BGS-41	11/14/2006	N	SW 7199	Hexavalent chromium	1.46	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L
	K156-03	MW-90_111406	BGS-41	11/14/2006	FD	SW 7199	Hexavalent chromium	1.42	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L
	K156-04	BGS-51_111406	BGS-51	11/14/2006	N	SW 7199	Hexavalent chromium	1.89	J	Continuing calibration recovery greater than upper control limit, Matrix spike recovery less than the lower limit	0.2	0.1	µg/L
	K156-06	BGS-44_111406	BGS-44	11/14/2006	N	SW 7199	Hexavalent chromium	1.69	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L
	K156-07	BGS-49_111406	BGS-49	11/14/2006	N	SW 7199	Hexavalent chromium	0.933	J	Continuing calibration recovery greater than upper control limit	0.2	0.1	µg/L

Appendix F

Background Study Sampling Data Requiring Data Validation Qualifiers

SDG*	Lab Sample ID	Field Sample ID	Well ID	Sample Date	Sample Type Code	Analyte Method	Analyte	Result	Validation Qualifier	Reason Result is Qualified	Reporting Limit	Detection Limit	Units
06K180	K180-04I	BGS-42_111506	BGS-42	11/15/2006	N	EPA 300.0	Chloride	55.4	J	Holding time exceeded, Laboratory accuracy and precision criteria not met	5	1	mg/L
	K180-09I	BGS-46_111506	BGS-46	11/15/2006	N	EPA 300.0	Chloride	22.9	J	Holding time exceeded, Laboratory accuracy and precision criteria not met	2.5	0.5	mg/L
	K180-04R	BGS-42_111506	BGS-42	11/15/2006	N	EPA 300.0	Nitrate as Nitrogen	0.5	R	Holding time exceeded, Laboratory accuracy and precision criteria not met	0.5	0.05	mg/L
	K180-09R	BGS-46_111506	BGS-46	11/15/2006	N	EPA 300.0	Nitrate as Nitrogen	0.5	R	Holding time exceeded, Laboratory accuracy and precision criteria not met	0.5	0.05	mg/L
	K180-04I	BGS-42_111506	BGS-42	11/15/2006	N	EPA 300.0	Sulfate	85.6	J	Holding time exceeded, Laboratory accuracy and precision criteria not met	5	2.5	mg/L
	K180-09I	BGS-46_111506	BGS-46	11/15/2006	N	EPA 300.0	Sulfate	29.2	J	Holding time exceeded, Laboratory accuracy and precision criteria not met	2.5	1.25	mg/L
	K180-06	BGS-39_111506	BGS-39	11/15/2006	N	SW 6020A	Magnesium (dissolved)	10.4	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K180-07	BGS-40_111506	BGS-40	11/15/2006	N	SW 6020A	Magnesium (dissolved)	9.02	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L
	K180-09	BGS-46_111506	BGS-46	11/15/2006	N	SW 6020A	Magnesium (dissolved)	3.53	J	Continuing calibration recovery greater than upper control limit	1	0.05	mg/L

Notes:

*SDG = Sample Delivery Group number

N = Normal field sample

FD = Field duplicate sample

J = Concentration is estimated based on quality control and data validation criteria.

UJ= Not detected at the reporting limit shown. The reporting limit is an estimated quantity based on quality control and data validation criteria.

R = Data are rejected based on evaluation of quality control and data validation criteria. The results must not be used for any project decisions.

RPD = Relative Percent Difference

Event 1 = February 2006, Event 2 = April 2006, Event 3 = July-September 2006, and Event 4 = October-November 2006.

Appendix G
Summary of Background Study General
Chemistry and Trace Metals Sampling
Results

APPENDIX G

Summary of Background Study General Chemistry and Trace Metals Sampling Results

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. BGS)	Depth to Bott Perf. Interval (ft. BGS)	Discrete Sample Depth (ft. BGS)	Metals														continued next page -->>	
							Antimony (diss) (6020A) (mg/L)	Arsenic (diss) (6020A) (mg/L)	Barium (diss) (6020A) (mg/L)	Beryllium (diss) (6020A) (mg/L)	Cadmium (diss) (6020A) (mg/L)	Calcium (diss) (mg/L)	Cobalt (diss) (6020A) (mg/L)	Copper (diss) (6020A) (mg/L)	Iron (diss) (6020A) (mg/L)	Lead (diss) (6020A) (mg/L)	Magnesium (diss) (6020A) (mg/L)	Manganese (diss) (6020A) (mg/L)	Mercury (diss) (7470A) (µg/L)	Molybdenum (diss) (6020A) (mg/L)	Nickel (diss) (6020A) (mg/L)	Potassium (diss) (6020A) (mg/L)
01-06	3	07/27/2006		55	78		(a)															
04E-01	3	07/25/2006									115			ND <0.5		20.7	ND <0.01				4.84	
	4	10/25/2006									ND <1			ND <0.5		ND <1	ND <0.01				1.58	
06E-01	3	07/24/2006		80	300						35.5			ND <0.5		6.68	ND <0.001				2.77	
	4	10/25/2006									39.1			ND <0.5		6.83	ND <0.01				2.87	
		10/25/2006	(dup)								39.7			ND <0.5		6.96	ND <0.01				2.91	
27-03	3	07/27/2006									69.1			ND <0.5		14.1	ND <0.001				3.13	
36-24	3	07/27/2006									155			ND <0.5		26.9	ND <0.001				4.54	
36-25	3	07/27/2006									147			ND <0.5		28.2	0.00104				4.29	
BGS-01	1	01/31/2006		90	150		ND <0.001	0.00711	0.0406	ND <0.001	ND <0.001	81.4	ND <0.001	ND <0.01	ND <0.5	16.9	ND <0.001	ND <0.5	0.00848	ND <0.02	4.78	
	2	04/25/2006					ND <0.001	0.00618	0.0536	ND <0.001	ND <0.001	106	ND <0.001	ND <0.01	ND <0.5	21.1	0.00279	ND <0.5	0.00900	ND <0.02	5.35	
	3	07/25/2006						0.00733				57.6			ND <0.5	13.1	ND <0.01				4.00	
	4	10/23/2006						0.00728				81.3			ND <0.5	16.6	ND <0.01				4.80	
BGS-04	1	02/01/2006		83	153		ND <0.001	0.0129	0.0451	ND <0.001	ND <0.001	22.8	ND <0.001	ND <0.01	ND <0.5	10.1	ND <0.001	ND <0.5	0.00704	ND <0.02	2.93	
	2	04/26/2006					ND <0.001	0.0126	0.0435	ND <0.001	ND <0.001	21.2	ND <0.001	ND <0.01	ND <0.5	10.1	ND <0.001	ND <0.5	0.00708	ND <0.02	2.72	
		04/26/2006	(dup)				ND <0.001	0.0129	0.0435	ND <0.001	ND <0.001	21.4	ND <0.001	ND <0.01	ND <0.5	10.5	ND <0.001	ND <0.5	0.00708	ND <0.02	2.7	
	3	07/25/2006						0.0135				20.7			ND <0.5	10.1	ND <0.01				2.94	
		07/25/2006	(dup)					0.0125				19.9			ND <0.5	9.61	ND <0.01				2.78	
	4	10/23/2006						0.0137				21.6			ND <0.5	9.71	ND <0.01				2.92	
BGS-05	1	01/31/2006					ND <0.001	ND <0.005	0.0870	ND <0.001	ND <0.001	100	ND <0.001	ND <0.01	ND <0.5	18.5	ND <0.001	ND <0.5	ND <0.005	ND <0.02	3.67	
	2	04/25/2006					ND <0.001	ND <0.005	0.0595	ND <0.001	ND <0.001	124	ND <0.001	ND <0.01	ND <0.5	21.1	ND <0.001	ND <0.5	ND <0.005	ND <0.02	3.60	
BGS-06	1	01/31/2006		100	200		ND <0.001	ND <0.005	0.0784	ND <0.001	ND <0.001	55.1	ND <0.001	ND <0.01	ND <0.5	10.2	0.00464	ND <0.5	ND <0.005	ND <0.02	3.04	
	2	04/26/2006					ND <0.001	ND <0.005	0.0661	ND <0.001	ND <0.001	41.1	ND <0.001	ND <0.01	ND <0.5	7.55	ND <0.001	ND <0.5	ND <0.005	ND <0.02	2.45	
	3	07/24/2006						ND <0.005				45.9			ND <0.5	8.62	0.00150				2.76	
	4	10/23/2006						ND <0.005				37.4			ND <0.5	6.45	ND <0.01				2.52	
		10/23/2006	(dup)					ND <0.005				37.0			ND <0.5	6.45	ND <0.01				2.45	
BGS-09	1	01/30/2006					ND <0.001	ND <0.005	0.0444	ND <0.001	ND <0.001	31.3	ND <0.001	ND <0.01	ND <0.5	5.88	0.00396	ND <0.5	ND <0.005	ND <0.02	2.44	
	2	04/24/2006					ND <0.001	ND <0.005	0.0525	ND <0.001	ND <0.001	37.2	ND <0.001	ND <0.01	ND <0.5	6.53	0.00220	ND <0.5	ND <0.005	ND <0.02	2.36	
	3	07/24/2006						ND <0.005				35.9			ND <0.5	6.71	0.00131				2.62	
		07/24/2006	(dup)					ND <0.005				34.9			ND <0.5	6.61	0.00129				2.55	
	4	10/24/2006						ND <0.005				35.5			ND <0.5	6.06	ND <0.01				2.64	
BGS-10	1	01/31/2006					ND <0.001	0.00812	0.115	ND <0.001	ND <0.001	32.0	ND <0.001	ND <0.01	ND <0.5	6.87	0.00178	ND <0.5	0.00725	ND <0.02	3.56	
	2	04/26/2006					ND <0.001	0.00810	0.121	ND <0.001	ND <0.001	32.7	ND <0.001	ND <0.01	ND <0.5	7.10	ND <0.001	ND <0.5	0.00796	ND <0.02	3.45	
	3	07/26/2006						0.0120				26.2			ND <0.5	6.31	ND <0.001				3.49	
	4	10/24/2006						0.00630				35.2			ND <0.5	6.59	ND <0.01				4.00	
BGS-12	1	01/30/2006		86	246		ND <0.001	ND <0.005	0.118	ND <0.001	ND <0.001	72.8	ND <0.001	ND <0.01	ND <0.5	13.2	0.00620	ND <0.5	ND <0.005	ND <0.02	3.29	
	2	04/24/2006					ND <0.001	ND <0.005	0.134	ND <0.001	ND <0.001	79.9	ND <0.001	ND <0.01	ND <0.5	13.8	0.00475	ND <0.5	ND <0.005	ND <0.02	3.03	
	3	07/24/2006						ND <0.005				80.4			ND <0.5	14.7	0.00219				3.46	
	4	10/23/2006						ND <0.005				76.3			ND <0.5	13.0	ND <0.01				3.36	
BGS-13	1	01/31/2006					ND <0.001	ND <0.005	0.169	ND <0.001	ND <0.001	99.3	ND <0.001	ND <0.01	ND <0.5	18.3	0.0481	ND <0.5	ND <0.005	ND <0.02	4.24	
	2	04/27/2006					ND <0.001	ND <0.005	0.190	ND <0.001	ND <0.001	109	ND <0.001	ND <0.01	ND <0.5	19.3	0.00876	ND <0.5	ND <0.005	ND <0.02	4.46	
	3	07/25/2006						ND <0.005				89.3			ND <0.5	16.4	ND <0.01				4.33	
BGS-14	1	01/31/2006		80	195		ND <0.001	0.0185	0.0873	ND <0.001	ND <0.001	35.3	ND <0.001	ND <0.01	ND <0.5	7.57	0.0166	ND <0.5	ND <0.005	ND <0.02	2.35	
	2	04/26/2006					ND <0.001	0.0174	0.0909	ND <0.001	ND <0.001	33.6	ND <0.001	ND <0.01	ND <0.5	7.53	0.00730	ND <0.5	ND <0.005	ND <0.02	2.06	
	3	07/26/2006						0.0196				34.4			ND <0.5	7.59	0.00415				2.25	
	4	10/23/2006						0.0205				36.8			ND <0.5	7.47	ND <0.01				2.34	
BGS-15	1	01/31/2006		90	120		ND <0.001	0.0110	0.0690	ND <0.001	ND <0.001	60.4	ND <0.001	ND <0.01	ND <0.5	14.0	0.00382	ND <0.5	0.0120	ND <0.02	4.45	
		01/31/2006	(dup)				ND <0.001	0.0108	0.0655	ND <0.001	ND <0.001	56.2	ND <0.001	ND <0.01	ND <0.5	13.1	0.00399	ND <0.5	0.0111	ND <0.02	4.21	
	2	04/26/2006					ND <0.001	0.0124	0.0623	ND <0.001	ND <0.001	55.5	ND <0.001	ND <0.01	ND <0.5	13.9	0.00384	ND <0.5	0.0143	ND <0.02	4.20	
	3	07/25/2006						0.0133				51.1			ND <0.5	12.9	ND <0.01				4.30	
	4	10/23/2006						0.0132				54.2			ND <0.5	12.6	ND <0.01				4.4	

APPENDIX G

Summary of Background Study General Chemistry and Trace Metals Sampling Resu

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. BGS)	Depth to Bott Perf. Interval (ft. BGS)	Discrete Sample Depth (ft. BGS)	Metals (continued)				General Chemistry								
							Selenium (diss) (6020A) (mg/L)	Sodium (diss) (6020A) (mg/L)	Thallium (diss) (6020A) (mg/L)	Zinc (diss) (6020A) (mg/L)	Bromide (300.0) (mg/L)	Chloride (300.0) (mg/L)	Nitrate as N (300.0) (mg/L)	Sulfate (300.0) (mg/L)	Alkalinity, Total as CaCO3 (310.1) (mg/L)	Alkalinity, bicarb as CaCO3 (310.1) (mg/L)	Alkalinity, as carbonate (310.1) (mg/L)	Ammonia as N (350.2) (mg/L)	Total dissolved solids (TDS) (160.1) (mg/L)
01-06	3	07/27/2006		55	78														
04E-01	3	07/25/2006									119	6.43	171	213	213	ND <5		765	
	4	10/25/2006									125	6.63	183	205	205			830	
06E-01	3	07/24/2006		80	300						40.1	3.01	41.8	99.1	99.1			300	
	4	10/25/2006									50.9	3.88	40.1	108	108			325	
		10/25/2006	(dup)								51.5	3.84	40.4	108	108			315	
27-03	3	07/27/2006									112	9.81	71.1	133	133			530	
36-24	3	07/27/2006									147	13.9	191	432	432			1080	
36-25	3	07/27/2006									160	21.0	242	469	469			1260	
BGS-01	1	01/31/2006		90	150		ND <0.001	107	ND <0.001	0.0343	ND <0.5	113	1.71	176	145	145	ND <5	ND <0.5	700
	2	04/25/2006					ND <0.001	129	ND <0.001	0.0269 J	ND <0.5	155	2.52	248	162	162	ND <5	ND <0.5	870
	3	07/25/2006						76.1				90.9	1.42	129	123	123	ND <5		545
	4	10/23/2006						96.6				123	1.98	187	140	140			690
BGS-04	1	02/01/2006		83	153		ND <0.001	92.7	ND <0.001	ND <0.02	ND <0.5	45.0	ND <0.5	63.6	131	131	ND <5	ND <0.5	350
	2	04/26/2006					ND <0.001	88.6	ND <0.001	ND <0.02	ND <0.5	43.5	ND <0.5	63.9	140	140	ND <5	ND <0.5	390
		04/26/2006	(dup)				ND <0.001	89.1	ND <0.001	ND <0.02	ND <0.5	43.8	ND <0.5	63.1	143	143	ND <5	ND <0.5	340
	3	07/25/2006						84.4				46.1	ND <0.5	65.2	133	133	ND <5		360
		07/25/2006	(dup)					80.6				45.4	ND <0.5	64.2	133	133	ND <5		360
	4	10/23/2006						84.0				46.6	ND <0.5	67.7	133	133			385
BGS-05	1	01/31/2006					ND <0.001	91.0	ND <0.001	0.0203	ND <0.5	86.8		104	264	264	ND <5	ND <0.5	670
	2	04/25/2006					ND <0.001	144	ND <0.001	ND <0.02	ND <0.5	96.7		146	349	349	ND <5	ND <0.5	910
BGS-06	1	01/31/2006		100	200		ND <0.001	77.2	ND <0.001	0.0379	ND <0.5	55.0	6.82	60.0	173	173	ND <5	ND <0.5	410
	2	04/26/2006					ND <0.001	45.2	ND <0.001	ND <0.02	ND <0.5	42.7	1.42	47.3	98.9	98.9	ND <5	ND <0.5	305
	3	07/24/2006						58				62.7	4.79	49.4	115	115			330
	4	10/23/2006						44.4				43.7	1.74	44.2	97.5	97.5			280
		10/23/2006	(dup)					43.5				44.2	1.67	45.2	95.0	95.0			240
BGS-09	1	01/30/2006					ND <0.001	34.7	ND <0.001	0.0257	ND <0.5	32.8	1.15	37.7	90.3	90.3	ND <5	ND <0.5	235
	2	04/24/2006					ND <0.001	39.9	ND <0.001	ND <0.02	ND <0.5	53.1	0.854	36.8	79.6	79.6	ND <5	ND <0.5	265
	3	07/24/2006						36.8				34.2	1.17	38.6	91.2	91.2			265
		07/24/2006	(dup)					36.1				34.8	1.17	39.1	93.8	93.8			245
	4	10/24/2006						35.1				34.2	1.09	43.4	95.0	95.0			255
BGS-10	1	01/31/2006					ND <0.001	63.4	ND <0.001	ND <0.02	ND <0.5	45.2	ND <0.5	43.2	126	126	ND <5	ND <0.5	310
	2	04/26/2006					ND <0.001	65	ND <0.001	ND <0.02	ND <0.5	47.2	ND <0.5	44.5	135	135	ND <5	ND <0.5	350
	3	07/26/2006						58.7				41.3	ND <0.5	36.8	128	128	ND <5		335
	4	10/24/2006						61.9				53.7	ND <0.5	51.8	125	125			400
BGS-12	1	01/30/2006		86	246		ND <0.001	60.4	ND <0.001	0.0620	ND <0.5	51.8	5.70	74.1	185	185	ND <5	ND <0.5	465
	2	04/24/2006					ND <0.001	63.2	ND <0.001	0.0462	ND <0.5	56.7	5.83	76.9	203	203	ND <5	ND <0.5	480
	3	07/24/2006						64.2				61.5	6.14	82.8	196	196			505
	4	10/23/2006						60.2				56.2	5.90	74.2	185	185			425
BGS-13	1	01/31/2006					ND <0.001	76.7	ND <0.001	0.519	ND <0.5	73.9	12.6	78.2	280	280	ND <5	ND <0.5	625
	2	04/27/2006					ND <0.001	81.9	ND <0.001	0.185	ND <0.5	71.7	12.1	79.9	288	288	ND <5	ND <0.5	660
	3	07/25/2006						75.5				76.2	14.2	71.7	224	224	ND <5		575
BGS-14	1	01/31/2006		80	195		ND <0.001	52.6	ND <0.001	0.108	ND <0.5	37.6	ND <0.5	41.6	131	131	ND <5	ND <0.5	305
	2	04/26/2006					ND <0.001	50.3	ND <0.001	0.0566	ND <0.5	39.2	ND <0.5	42.5	135	135	ND <5	ND <0.5	355
	3	07/26/2006						49.9				38.7	ND <0.5	41.5	133	133	ND <5		340
	4	10/23/2006						52.1				39.4	ND <0.5	44.2	133	133			335
BGS-15	1	01/31/2006		90	120		ND <0.001	116	ND <0.001	0.0706	ND <0.5	131	1.52	119	116	116	ND <5	ND <0.5	580
		01/31/2006	(dup)				ND <0.001	109	ND <0.001	0.0602	ND <0.5	129	1.52	120	112	112	ND <5	ND <0.5	565
	2	04/26/2006					ND <0.001	117	ND <0.001	0.0451	ND <0.5	130	0.936	127	118	118	ND <5	ND <0.5	640
	3	07/25/2006						108				130	0.791	129	117	117	ND <5		630
	4	10/23/2006						110				132	0.901	131	115	115			580

APPENDIX G

Summary of Background Study General Chemistry and Trace Metals Sampling Results

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. BGS)	Depth to Bott Perf. Interval (ft. BGS)	Discrete Sample Depth (ft. BGS)	Metals														continued next page -->				
							Antimony (diss) (6020A) (mg/L)	Arsenic (diss) (6020A) (mg/L)	Barium (diss) (6020A) (mg/L)	Beryllium (diss) (6020A) (mg/L)	Cadmium (diss) (6020A) (mg/L)	Calcium (diss) (mg/L)	Cobalt (diss) (6020A) (mg/L)	Copper (diss) (6020A) (mg/L)	Iron (diss) (6020A) (mg/L)	Lead (diss) (6020A) (mg/L)	Magnesium (diss) (6020A) (mg/L)	Manganese (diss) (6020A) (mg/L)	Mercury (diss) (7470A) (µg/L)	Molybdenum (diss) (6020A) (mg/L)	Nickel (diss) (6020A) (mg/L)	Potassium (diss) (6020A) (mg/L)			
BGS-16	1	01/31/2006		100	200		ND <0.001	0.00602	0.0633	ND <0.001	ND <0.001	85.9	ND <0.001	ND <0.01	ND <0.5	ND <0.005	16.4	ND <0.001	ND <0.5	0.00531	ND <0.02	5.64			
	2	04/24/2006					ND <0.001	0.00672	0.0662	ND <0.001	ND <0.001	87.7	ND <0.001	ND <0.01	ND <0.5	ND <0.005	15.8	0.00144	ND <0.5	0.00629	ND <0.02	5.49			
	3	07/25/2006						0.00716				76.7			ND <0.5		14.7	ND <0.01				5.58			
	4	10/23/2006						0.00790				80.2			ND <0.5		14.7	ND <0.01				5.83			
BGS-18	1	02/01/2006					ND <0.001	0.00956	0.0441	ND <0.001	ND <0.001	54.8	ND <0.001	ND <0.01	ND <0.5	ND <0.005	25.4	0.00112	0.602	0.0320	ND <0.02	5.82			
	2	04/25/2006					ND <0.001	0.00902	0.0454	ND <0.001	ND <0.001	57.4	ND <0.001	ND <0.01	ND <0.5	ND <0.005	27.4	ND <0.001	0.587	0.0292	ND <0.02	5.63			
	3	07/25/2006						0.00665				49.5			ND <0.5		24.6	0.197				5.97			
	4	10/24/2006						0.00821				54.4			ND <0.5		25.2	ND <0.01				5.91			
BGS-19	2	04/25/2006					ND <0.001	0.00614	0.0610	ND <0.001	ND <0.001	59.3	ND <0.001	ND <0.01	ND <0.5	ND <0.005	18.7	0.00161	2.29	0.0121	ND <0.02	5.73			
	3	07/25/2006						0.00897				47.3			ND <0.5		15.8	ND <0.01				5.90			
	4	10/24/2006						0.00981				43.9			ND <0.5		13.3	ND <0.01				5.47			
		10/24/2006	(dup)					0.00954				45			ND <0.5		13.3	ND <0.01				5.57			
BGS-22	1	01/30/2006					ND <0.001	0.00620	0.105	ND <0.001	ND <0.001	28.3	ND <0.001	ND <0.01	ND <0.5	ND <0.005	4.50	0.00108	ND <0.5	ND <0.005	ND <0.02	2.05			
		01/30/2006	(dup)				ND <0.001	0.00588	0.107	ND <0.001	ND <0.001	29.0	ND <0.001	ND <0.01	ND <0.5	ND <0.005	4.57	0.00161	ND <0.5	ND <0.005	ND <0.02	2.09			
	2	04/25/2006					ND <0.001	0.00574	0.117	ND <0.001	ND <0.001	29.0	ND <0.001	ND <0.01	ND <0.5	ND <0.005	4.60	ND <0.001	ND <0.5	ND <0.005	ND <0.02	1.97			
	3	07/24/2006						0.00631				28.4			ND <0.5		4.46	ND <0.001	ND <0.5	ND <0.005	ND <0.02	2.08			
	4	10/24/2006					0.00585				27.8			ND <0.5		4.40	ND <0.01				2.33				
BGS-23	1	01/31/2006		82	187		ND <0.001	0.00821	0.0564	ND <0.001	ND <0.001	30.1	ND <0.001	ND <0.01	ND <0.5	ND <0.005	5.72	ND <0.001	ND <0.5	0.00742	ND <0.02	2.71			
	2	04/24/2006					ND <0.001	0.00831	0.0594	ND <0.001	ND <0.001	32.7	ND <0.001	ND <0.01	ND <0.5	ND <0.005	5.64	0.00612 J	ND <0.5	0.00844	ND <0.02	2.58			
		04/24/2006	(dup)				ND <0.001	0.00845	0.0594	ND <0.001	ND <0.001	31.6	ND <0.001	ND <0.01	ND <0.5	ND <0.005	5.88	ND <0.001	ND <0.5	0.00863	ND <0.02	2.57			
	3	07/25/2006						0.00853				29.9			ND <0.5		5.72	ND <0.01				2.86			
	4	10/24/2006	(dup)				0.00880				30.2			ND <0.5		5.72	ND <0.01				2.89				
							ND <0.005				30.9			ND <0.5		4.81	ND <0.01				2.59				
BGS-24	1	02/02/2006					ND <0.001	ND <0.005	0.0335	ND <0.001	ND <0.001	34.1	ND <0.001	ND <0.01	ND <0.5	ND <0.005	5.61	0.0153	ND <0.5	ND <0.005	ND <0.02	2.09			
	2	04/26/2006				60-60	(a)																		
	2	04/26/2006				100-100	(a)																		
	2	04/26/2006				140-140		ND <0.001	ND <0.005	0.0394	ND <0.001	ND <0.001	34.8	ND <0.001	ND <0.01	ND <0.5	ND <0.005	6.40	0.00609	ND <0.5	ND <0.005	ND <0.02	2.21		
	3	07/27/2006					ND <0.005				33.5			ND <0.5		5.91	0.00471	ND <0.5	ND <0.005	ND <0.02	2.08				
BGS-25	1	01/30/2006		80	400		ND <0.001	ND <0.005	0.0476	ND <0.001	ND <0.001	146	ND <0.001	ND <0.01	ND <0.5	ND <0.005	25.9	0.00278	ND <0.5	ND <0.005	ND <0.02	4.13			
	2	04/26/2006					ND <0.001	ND <0.005	0.0521	ND <0.001	ND <0.001	155	ND <0.001	ND <0.01	ND <0.5	ND <0.005	27.3	0.00192	ND <0.5	ND <0.005	ND <0.02	4.13			
	3	07/26/2006						ND <0.005				139			ND <0.5		24.9	0.00118				4.09			
	4	10/23/2006						ND <0.005				153			ND <0.5		24.9	ND <0.01				4.26			
BGS-27	1	02/02/2006					ND <0.001	ND <0.005	0.0645	ND <0.001	ND <0.001	178	ND <0.001	ND <0.01	ND <0.5	ND <0.005	30.7	0.00139	ND <0.5	ND <0.005	ND <0.02	5.50			
	2	04/25/2006					ND <0.001	ND <0.005	0.0641	ND <0.001	ND <0.001	168	ND <0.001	ND <0.01	ND <0.5	ND <0.005	27.5	0.00299	ND <0.5	ND <0.005	ND <0.02	5.00			
	3	07/26/2006						ND <0.005				143			ND <0.5		26.5	ND <0.001				4.89			
	4	10/24/2006						ND <0.005				145			ND <0.5		24.0	ND <0.01				4.84			
BGS-28	3	07/26/2006						0.0102				27.5			ND <0.5		12.0	0.00175				3.37			
	4	10/25/2006						0.00993				27.2			ND <0.5		11.0	ND <0.01				3.39			
BGS-29	3	07/26/2006		45	105			0.00814				27.7			ND <0.5		9.37	ND <0.001				3.19			
	3	09/26/2006						0.00802				29.1			ND <0.5		9.21	ND <0.01				3.14			
	4	11/13/2006						0.00739				29.2			ND <0.5		9.52 J	ND <0.01				3.04			
BGS-30	3	07/26/2006						0.0122				25.6			ND <0.5		14.2	0.00112				3.53			
		07/26/2006	(dup)					0.0123				25.4			ND <0.5		14.0	0.00116				3.48			
BGS-31	3	07/26/2006						0.0111				25.2			ND <0.5		10.5	0.00123				2.97			
	3	09/27/2006						0.00859				27.5			ND <0.5		11.5	ND <0.01				3.13			
	4	11/13/2006						0.00782				27.3			ND <0.5		12.0 J	ND <0.01				2.92			
BGS-32	3	09/26/2006		73	136			0.0148				28.4			ND <0.5		15.8	ND <0.01				4.05			
		09/26/2006	(dup)					0.0158				30.1			ND <0.5		16.8	ND <0.01				4.31			
	4	11/15/2006						0.0128				30.0			ND <0.5		16.0	ND <0.01				3.88			
BGS-33	3	09/26/2006		55	114			0.00833				58.0			ND <0.5		32.9	ND <0.01				5.36			
	4	11/15/2006						0.00730				49.7			ND <0.5		26.0	ND <0.01				4.51			

APPENDIX G

Summary of Background Study General Chemistry and Trace Metals Sampling Resu

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. BGS)	Depth to Bott Perf. Interval (ft. BGS)	Discrete Sample Depth (ft. BGS)	Metals (continued)				General Chemistry								
							Selenium (diss) (6020A) (mg/L)	Sodium (diss) (6020A) (mg/L)	Thallium (diss) (6020A) (mg/L)	Zinc (diss) (6020A) (mg/L)	Bromide (300.0) (mg/L)	Chloride (300.0) (mg/L)	Nitrate as N (300.0) (mg/L)	Sulfate (300.0) (mg/L)	Alkalinity, Total as CaCO3 (310.1) (mg/L)	Alkalinity, bicarb as CaCO3 (310.1) (mg/L)	Alkalinity, as carbonate (310.1) (mg/L)	Ammonia as N (350.2) (mg/L)	Total dissolved solids (TDS) (160.1) (mg/L)
BGS-16	1	01/31/2006		100	200		ND <0.001	103	ND <0.001	0.0301	ND <0.5	132	1.66	187	116	116	ND <5	ND <0.5	750
	2	04/24/2006					ND <0.001	106	ND <0.001	0.0348	ND <0.5	140	1.59	185	118	118	ND <5	ND <0.5	735
	3	07/25/2006						93.7				131	1.53	171	123	123	ND <5		710
	4	10/23/2006						95.7				131	1.58	181	113	113			685
BGS-18	1	02/01/2006					ND <0.001	235	ND <0.001	0.106	ND <0.5	214	9.14	269	190	190	ND <5	ND <0.5	1150
	2	04/25/2006					ND <0.001	239	ND <0.001	0.0399 J	ND <0.5	201	8.72	219	198	198	ND <5	ND <0.5	2390
	3	07/25/2006						224				223	8.30	217	197	197	ND <5		1040
	4	10/24/2006						218				201	7.23	225	180	180			975
BGS-19	2	04/25/2006					ND <0.001	347	ND <0.001	0.0341 J	ND <0.5	298	15.1	143	349	349	ND <5	ND <0.5	1220
	3	07/25/2006						348				264	13.4	156	315	315	ND <5		1160
	4	10/24/2006						284				251	12.0	162	300	300			1070
		10/24/2006	(dup)					290				252	12.2	172	300	300			1080
BGS-22	1	01/30/2006					ND <0.001	49.2	ND <0.001	0.102 J	ND <0.5	20.1	ND <0.5	23.4	140	140	ND <5	ND <0.5	240 J
		01/30/2006	(dup)				ND <0.001	49.7	ND <0.001	0.128 J	ND <0.5	20.0	ND <0.5	23.3	138	138	ND <5	ND <0.5	965 J
	2	04/25/2006					ND <0.001	52.4	ND <0.001	0.152 J	ND <0.5	20.8	ND <0.5	24.0	148	148	ND <5	ND <0.5	90
	3	07/24/2006						50.3				21.0	ND <0.5	26.0	141	141			205
	4	10/24/2006					51.9				21.0	ND <0.5	24.1	140	140				
BGS-23	1	01/31/2006		82	187		ND <0.001	61.4	ND <0.001	ND <0.02	ND <0.5	38.0	ND <0.5	45.9	147	147	ND <5	ND <0.5	325
	2	04/24/2006					ND <0.001	66.5	ND <0.001	ND <0.02	ND <0.5	37.9	ND <0.5	46.0	140	140	ND <5	ND <0.5	340
		04/24/2006	(dup)				ND <0.001	64.1	ND <0.001	ND <0.02	ND <0.5	38.4	ND <0.5	46.7	140	140	ND <5	ND <0.5	350
	3	07/25/2006						61.3				38.1	ND <0.5	45.4	133	133	ND <5		340
	4	07/25/2006	(dup)				62.1				39.2	ND <0.5	46.9	133	133	ND <5		350	
	4	10/24/2006					54.5				38.7	ND <0.5	47.0	133	133			360	
BGS-24	1	02/02/2006					ND <0.001	37.2	ND <0.001	ND <0.02	ND <0.5	29.8	1.47	35.4	95.0	95.0	ND <5	ND <0.5	230
	2	04/26/2006																	
	2	04/26/2006				60-60													
	2	04/26/2006				100-100	ND <0.001	38.3	ND <0.001	ND <0.02	ND <0.5	28.2	1.15	34.1	102	102	ND <5	ND <0.5	265
	3	07/27/2006					36.5				28.8	1.19	35.5	96.0	96.0			235	
BGS-25	1	01/30/2006		80	400		ND <0.001	120	ND <0.001	0.0403	ND <0.5	118	10.9	203	304	304	ND <5	ND <0.5	250
	2	04/26/2006					ND <0.001	126	ND <0.001	0.0345	ND <0.5	117	10.4	189	310	310	ND <5	ND <0.5	940
	3	07/26/2006						106				117	11.0	182	320	320	ND <5		950
	4	10/23/2006						111				123	11.8	193	310	310			925
BGS-27	1	02/02/2006					ND <0.001	218	ND <0.001	0.0467	ND <0.5	151		204	442	442	ND <5	ND <0.5	1180
	2	04/25/2006					ND <0.001	207	ND <0.001	0.0564 J	ND <0.5	149		199	445	445	ND <5	ND <0.5	1180
	3	07/26/2006						180				145		189	427	427	ND <5		1140
	4	10/24/2006						180				133		177	393	393			1090
BGS-28	3	07/26/2006						83.6				59.1	0.576	79.9	133	133	ND <5		415
	4	10/25/2006						80.7				62.1	0.528	92.3	130	130			400
BGS-29	3	07/26/2006		45	105			65.6				43.2	ND <0.5	57.4	133	133	ND <5		355
	3	09/26/2006						70.5				43.0	ND <0.5	56.7	133	133			365
	4	11/13/2006						69.8				44.6	ND <0.5	58.3	133	133			335
BGS-30	3	07/26/2006						110				81.2	0.838	105	128	128	ND <5		480
		07/26/2006	(dup)					108				81.4	0.839	105	128	128	ND <5		485
BGS-31	3	07/26/2006						69.2				44.2	ND <0.5	58.4	139	139	ND <5		355
	3	09/27/2006						86.8				56.6	ND <0.5	82.2	138	138			325
	4	11/13/2006						87.7				55.5	ND <0.5	82.0	133	133			410
BGS-32	3	09/26/2006		73	136			146				98.3	1.97	178	125	125			640
		09/26/2006	(dup)					155				98.6	1.79	178	125	125			600
	4	11/15/2006						149				114	2.46	202	113	113			660
BGS-33	3	09/26/2006		55	114			179				174	7.91	259	113	113			900
	4	11/15/2006						163				164	8.59	265	108	108			825

APPENDIX G

Summary of Background Study General Chemistry and Trace Metals Sampling Results

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. BGS)	Depth to Bott Perf. Interval (ft. BGS)	Discrete Sample Depth (ft. BGS)	Metals														continued next page -->>
							Antimony (diss) (6020A) (mg/L)	Arsenic (diss) (6020A) (mg/L)	Barium (diss) (6020A) (mg/L)	Beryllium (diss) (6020A) (mg/L)	Cadmium (diss) (6020A) (mg/L)	Calcium (diss) (mg/L)	Cobalt (diss) (6020A) (mg/L)	Copper (diss) (6020A) (mg/L)	Iron (diss) (6020A) (mg/L)	Lead (diss) (6020A) (mg/L)	Magnesium (diss) (6020A) (mg/L)	Manganese (diss) (6020A) (mg/L)	Mercury (diss) (7470A) (µg/L)	Molybdenum (diss) (6020A) (mg/L)	Nickel (diss) (6020A) (mg/L)
BGS-34	3	09/26/2006		42	147						19.3			ND <0.5		10.0	ND <0.01				2.93
	4	11/13/2006									18.3			ND <0.5		9.82 J	ND <0.01				2.67
BGS-35	3	09/26/2006									23.7			ND <0.5		12.5	ND <0.01				3.28
	4	11/15/2006									23.2			ND <0.5		11.8	ND <0.01				3.04
BGS-36	3	09/26/2006		85	165						24.4			ND <0.5		12.1	ND <0.01				3.22
	4	11/13/2006									24.4			ND <0.5		12.0 J	ND <0.01				3.08
BGS-37	3	09/26/2006		55	160						21.4			ND <0.5		10.9	ND <0.01				2.99
	4	11/13/2006									21.3			ND <0.5		11.0 J	ND <0.01				2.83
BGS-38	3	09/27/2006									19.1			ND <0.5		10.8	ND <0.01				3.29
	4	11/13/2006									19.1			ND <0.5		11.7 J	ND <0.01				3.18
BGS-39	3	09/27/2006		72	152						25.1			ND <0.5		9.90	ND <0.01				2.85
	4	11/15/2006									27.1			ND <0.5		10.4 J	ND <0.01				2.87
BGS-40	3	09/27/2006									24.3			ND <0.5		8.99	ND <0.01				2.76
	4	11/15/2006									25.7			ND <0.5		9.02 J	ND <0.01				2.68
BGS-41	3	09/27/2006									69.5			ND <0.5		25.7	ND <0.01				4.67
	4	09/27/2006 (dup)									66.8			ND <0.5		24.5	ND <0.01				4.55
		11/14/2006									65.1			ND <0.5		28.0 J	ND <0.01				4.63
		11/14/2006 (dup)									66.0			ND <0.5		27.9 J	ND <0.01				4.67
BGS-42	3	09/27/2006									23.3			ND <0.5		10.7	ND <0.01				2.98
	4	11/15/2006									24.8			ND <0.5		10.8	ND <0.01				2.85
		11/15/2006 (dup)									24.8			ND <0.5		11.0	ND <0.01				2.89
BGS-43	3	09/28/2006									26.2			ND <0.5		7.96	ND <0.01				3.1
	4	11/14/2006									23.3			ND <0.5		8.45 J	ND <0.01				2.88
BGS-44	3	09/28/2006									26.3			ND <0.5		8.51	ND <0.01				3.13
	4	11/14/2006									24.4			ND <0.5		9.29 J	0.0112				2.94
BGS-45	3	09/28/2006									59.8			ND <0.5		21.9	ND <0.01				4.43
BGS-46	3	09/28/2006									23.1			ND <0.5		3.55	ND <0.01				1.40
	4	11/15/2006									23.2			ND <0.5		3.53 J	ND <0.01				1.45
BGS-47	3	09/28/2006									7.09			ND <0.5		ND <1	ND <0.01				1.29
	4	11/15/2006									7.34			ND <0.5		ND <1	ND <0.01				1.24
BGS-48	3	09/28/2006									2.35			ND <0.5		ND <1	ND <0.01				ND <1
BGS-49	3	09/28/2006									17.6			ND <0.5		9.38	ND <0.01				3.22
	4	09/28/2006 (dup)									19.3			ND <0.5		10.0	ND <0.01				3.56
		11/14/2006									16.8			ND <0.5		9.99	ND <0.01				2.87
BGS-50	4	11/13/2006									6.52			ND <0.5		ND <1	ND <0.01				1.30
BGS-51	4	11/14/2006		160	200						26.2 J			ND <0.5		9.77 J	ND <0.01				3.07

Notes:

(dup) = Duplicate field sample

(a) = Samples from this well on the date shown were analyzed for Total and Hexavalent Chromium only

No value shown (result is blank) = Not analyzed

ND = Not detected at reporting limit shown

J = Concentration is estimated based on quality control and data validation criteria

UJ = Analyte is not detected at the reporting limit shown. The reporting limit is an estimated quantity

Quarter 1 = February 2006, Quarter 2 = April 2006, Quarter 3 = July-September 2006, and Quarter 4 = October-November 2006.

APPENDIX G

Summary of Background Study General Chemistry and Trace Metals Sampling Resu

Well ID	Qtr.	Sample Date	Samp Type	Depth to Top Perf. Interval (ft. BGS)	Depth to Bott Perf. Interval (ft. BGS)	Discrete Sample Depth (ft. BGS)	Metals (continued)				General Chemistry							
							Selenium (diss) (6020A) (mg/L)	Sodium (diss) (6020A) (mg/L)	Thallium (diss) (6020A) (mg/L)	Zinc (diss) (6020A) (mg/L)	Bromide (300.0) (mg/L)	Chloride (300.0) (mg/L)	Nitrate as N (300.0) (mg/L)	Sulfate (300.0) (mg/L)	Alkalinity, Total as CaCO3 (310.1) (mg/L)	Alkalinity, bicarb as CaCO3 (310.1) (mg/L)	Alkalinity, as carbonate (310.1) (mg/L)	Ammonia as N (350.2) (mg/L)
BGS-34	3	09/26/2006		42	147						55.2	ND <0.5	86.3	125	125			410
	4	11/13/2006					98.5					56.5	ND <0.5	87.7	125	125		
BGS-35	3	09/26/2006									86.2	ND <0.5	104	118	118			455
	4	11/15/2006									82.8	ND <0.5	107	120	120			450
BGS-36	3	09/26/2006		85	165						58.7	ND <0.5	93.0	130	130			430
	4	11/13/2006					95.0					58.3	ND <0.5	92.7	125	125		
BGS-37	3	09/26/2006		55	160						54.6	ND <0.5	84.5	125	125			415
	4	11/13/2006					95.1					54.4	ND <0.5	83.6	125	125		
BGS-38	3	09/27/2006									73.3	ND <0.5	129	133	133			435
	4	11/13/2006									69.7	ND <0.5	124	125	125			465
BGS-39	3	09/27/2006		72	152						45.7	ND <0.5	59.5	138	138			275
	4	11/15/2006					75.5					47.6	ND <0.5	62.5	135	135		
BGS-40	3	09/27/2006									40.4	ND <0.5	52.0	140	140			275
	4	11/15/2006									42.9	ND <0.5	54.3	138	138			500
BGS-41	3	09/27/2006									105		140	118	118			635
	4	09/27/2006	(dup)								99.5	2.86	137	120	120			615
		11/14/2006									98.2	2.91	142	120	120			685
		11/14/2006	(dup)								98.6	2.92	143	113	113			730
BGS-42	3	09/27/2006									82.9		54.9	130	130			325
	4	11/15/2006									89.5		55.4 J	128	128			400
		11/15/2006	(dup)								88.8		56.4	125	125			415
BGS-43	3	09/28/2006									64.4		40.4	128	128			260
	4	11/14/2006									59.0		41.7	120	120			335
BGS-44	3	09/28/2006									66.4		43.7	128	128			285
	4	11/14/2006									63.0		45.1	125	125			345
BGS-45	3	09/28/2006									105		107	120	120			550
BGS-46	3	09/28/2006									51.4		22.7	115	115			190
	4	11/15/2006									55.6		22.9 J	118	118			245
BGS-47	3	09/28/2006									108		56.6	140	140			300
	4	11/15/2006									116		59.4	125	125			380
BGS-48	3	09/28/2006									98.9		20.9	163	163			230
BGS-49	3	09/28/2006									111		64.2	140	140			440
	4	09/28/2006	(dup)								122		64.8	133	133			425
		11/14/2006									108		67.9	133	133			495
BGS-50	4	11/13/2006									97.5		21.8	165	165			310
BGS-51	4	11/14/2006		160	200						63.7 J		17.3	128	128			340

Notes:

(dup) = Duplicate field sample

(a) = Samples from this well on the date shown were analyzed for Total and H

No value shown (result is blank) = Not analyzed

ND = Not detected at reporting limit shown

J = Concentration is estimated based on quality control and data validation cri

UJ = Analyte is not detected at the reporting limit shown. The reporting limit is

Quarter 1 = February 2006, Quarter 2 = April 2006, Quarter 3 = July-Septemb

Appendix H
Available Background Study Well
Boring Logs

WELL NUMBER

01-06

ADDRESS: 35494 DIXIE ROAD

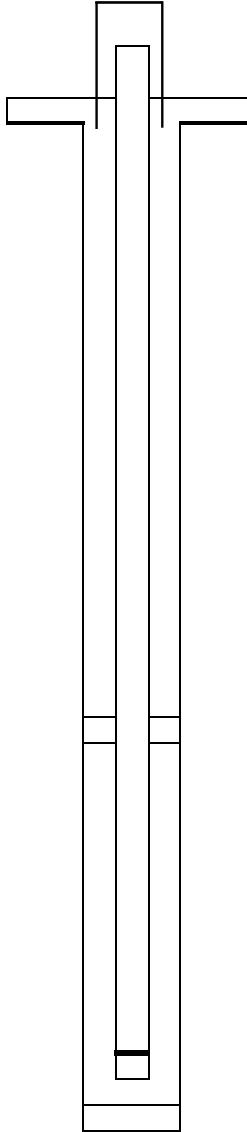
TOTAL DEPTH: 78.5 FT BGS

DRILLING CONTRACTOR : JOHNSON DRILLING AND PUMPS

SCREENED INTERVAL: 55 - 78 FT BGS

DATE DRILLED: 2/25/1961

WATER LEVEL: 44 FT BGS

LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	12	SILT
12	30	RIVER SANDS AND GRAVEL
30	33	CLAY
33	47	RIVER SANDS AND GRAVEL
47	55	GRAY CLAY (DARK)
55	65	RIVER SANDS AND GRAVEL TO THREE INCH
65	70	GRAY CLAY
70	78.5	RIVER SANDS AND GRAVEL
78.5		CLAY

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

06E-01

ADDRESS: 24811 COMMUNITY BLVD

TOTAL DEPTH: 300 FT BGS

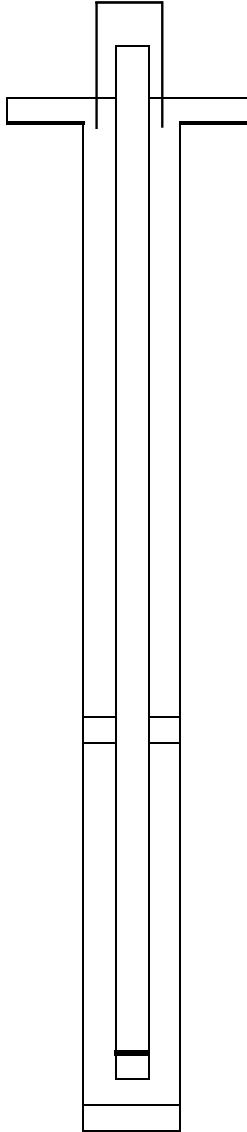
DRILLING CONTRACTOR : WARREN OPIE WALLS INC

SCREENED INTERVAL: 80 - 300 FT BGS

DATE DRILLED: 9/8/1980

WATER LEVEL: 31 FT BGS

LITHOGRAPHY



TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	45	COARSE SAND GRAVEL AND COBBLE STONES
45	55	SANDY CLAY
55	195	COARSE SAND AND GRAVEL
195	205	SAND, CLAY
205	270	COARSE SAND AND GRAVEL
270	300	SANDY CLAY

NOTE: DRAWING NOT TO SCALE.

THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.

Source: Department of Water Resources

WELL NUMBER

BGS-01

ADDRESS: 21284 RAINBOW ROAD

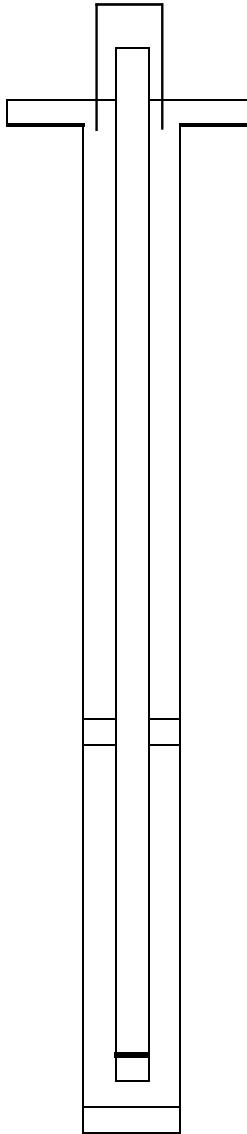
TOTAL DEPTH: 155 FT BGS

DRILLING CONTRACTOR : MARTY GARRISON WATER WELL SERVICES

SCREENED INTERVAL: 90 - 150 FT BGS

DATE DRILLED: 5/25/1996

WATER LEVEL: 90 FT BGS

**LITHOGRAPHY**

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	35	SAND AND GRAVEL WITH 10% CLAY
35	45	SAND AND GRAVEL WITH 90% BROWN CLAY
45	50	SAND AND GRAVEL WITH 10% BROWN CLAY
50	65	SMALL SANDS WITH 90% BROWN CLAY
65	90	LARGE SANDS WITH 5% BROWN CLAY
90	105	90% GREEN CLAY WITH 10% SAND
105	120	HARD PACKED SAND WITH SOME ROCK
120	130	FRACTURED ROCK SLOW TO MED DRILLING
130	135	BROKEN ROCK WITH 10% WHITE CLAY
135	150	BROKEN ROCK WITH 2% WHITE CLAY
150	155	FRACTURED ROCK HARD

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-04

ADDRESS: 36530 INDIAN WELLS ROAD

TOTAL DEPTH: 153 FT BGS

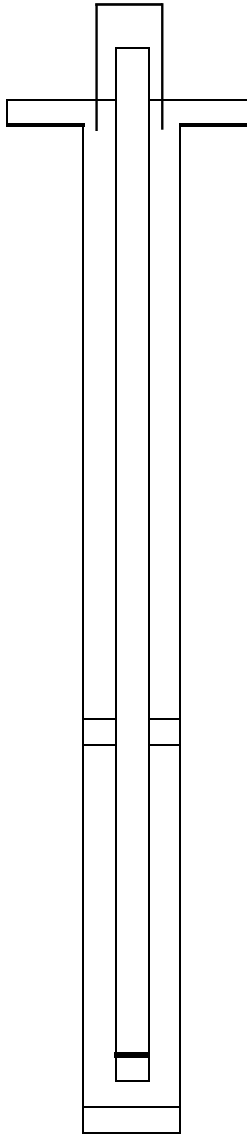
DRILLING CONTRACTOR : WALLIS WATER SYSTEMS, INC

SCREENED INTERVAL: 83 -153 FT BGS

DATE DRILLED: 5/27/1992

WATER LEVEL: 86 FT BGS

LITHOGRAPHY



TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	2	HARD SANDY CLAY
2	71	MEDIUM AND COARSE SAND
71	74	GRAY AND SANDY CLAY
74	81	HARD FINE SAND
81	86	GRAY SANDY CLAY
86	90	BROWN SANDY CLAY
90	102	MEDIUM AND COARSE SAND
102	117	MEDIUM AND COARSE WHITE SAND WITH SMALL AMOUNT OF CL/
117	142	FRACTURED GRANITE
142	148	SOLID GRANITE
148	153	FRACTURED GRANITE

NOTE: DRAWING NOT TO SCALE.

THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.

Source: Department of Water Resources

WELL NUMBER

BGS-06

ADDRESS: DIXIE ROAD, HINKLEY CA

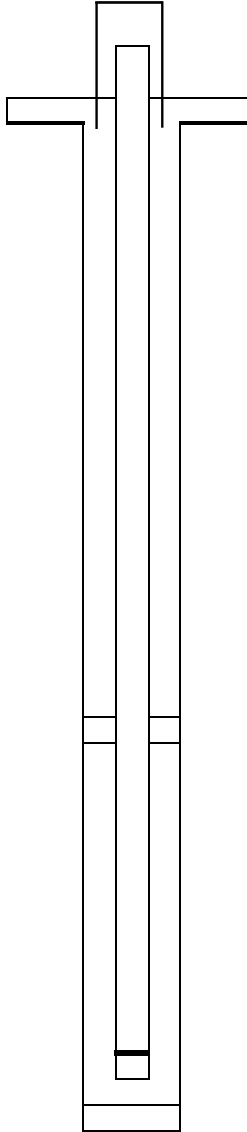
TOTAL DEPTH: 200 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 100 - 200 FT BGS

DATE DRILLED: 6/17/1987

WATER LEVEL: 31 FT BGS

LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	20	SAND, COARSE GRAVEL
20	52	COARSE SAND AND 3/4" COBBLES
52	54	BROWN SILTY CLAY WITH SAND
54	58	GREEN CLAY
58	72	SILTY CLAY
72	78	SAND, COARSE GRAVEL
78	80	SILTY CLAY WITH SAND
80	87	SAND AND GRAVEL
87	92	SAND, GRAVEL, AND SOME SILTY CLAY
92	124	SAND AND GRAVEL
124	129	SILTY CLAY AND SAND
129	138	SAND (COARSE)
138	148	SILTY CLAY AND SAND
148	162	SAND AND GRAVEL
162	166	SILTY CLAY
166	192	SAND AND GRAVEL
192	200	SILTY BROWN CLAY WITH SAND

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-12

ADDRESS: 36388 LENWOOD ROAD

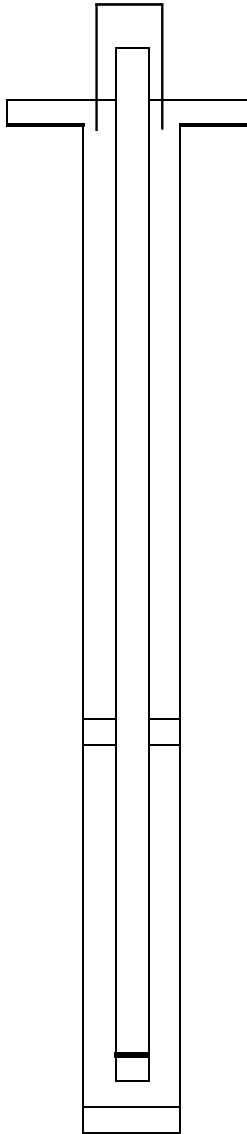
TOTAL DEPTH: 251 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 86-246 FT BGS

DATE DRILLED: 9/29/1992

WATER LEVEL: 105 FT BGS

**LITHOGRAPHY**

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	23	COARSE SAND AND 3/4" COBBLES
23	36	GRAVEL
36	43	MEDIUM SAND
43	45	COARSE SAND WITH GRAVEL
45	65	COARSE SAND
65	68	COARSE SAND WITH GRAVEL
68	70	COARSE SAND
70	101	COARSE SAND WITH GRAVEL
101	103	MEDIUM SAND
103	110	COARSE SAND
110	140	COARSE SAND WITH GRAVEL
140	141	MEDIUM SAND WITH CLAY
141	145	COARSE SAND WITH GRAVEL
145	147	CLAY
147	176	COARSE SAND
176	181	CLAY
181	200	COARSE SAND WITH SILTY CLAY
200	240	CLAY WITH COARSE SAND AND GRAVEL

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-16

ADDRESS: 36730 HINKLEY ROAD

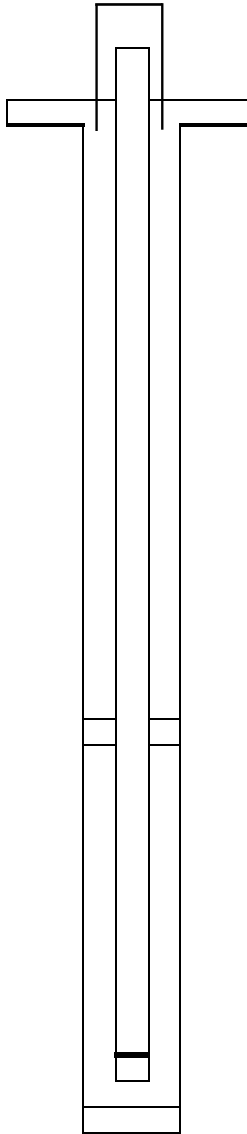
TOTAL DEPTH: 200 FT BGS

DRILLING CONTRACTOR : EAGLE DRILLING

SCREENED INTERVAL: 100 - 200 FT BGS

DATE DRILLED: 3/1/2004

WATER LEVEL: 89 FT BGS

LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	90	SAND, BROWN CLAY, GRAVEL
90	100	BROWN CLAY
100	110	SAND, GRAVEL, CLAY
110	125	ROCK
125	135	ROCK, GRAVEL
135	155	GREY CLAY, GRAVEL, SAND
155	170	GREY CLAY, HARD GRAVEL
170	200	GRAVEL, SAND, CLAY

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-23

ADDRESS: 36730 HINKLEY ROAD

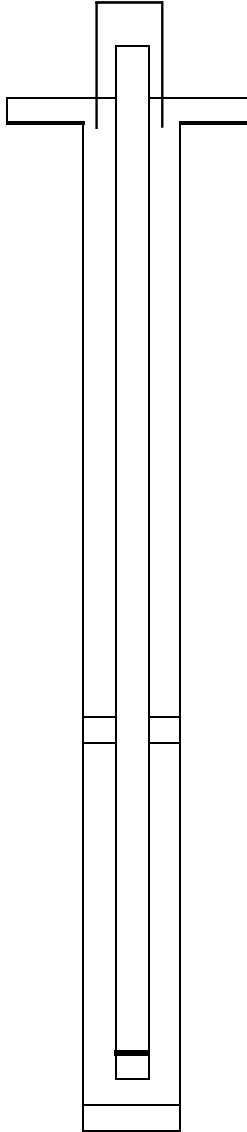
TOTAL DEPTH: 188 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 82 -187 FT BGS

DATE DRILLED: 10/24/1991

WATER LEVEL: 92 FT BGS

LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	2	SAND AND GRAVEL
2	16	CLAY AND SOME SAND AND GRAVEL
16	40	SAND AND GRAVEL
40	60	SILTY SAND AND GRAVEL
60	65	SAND AND GRAVEL
65	129	SILTY SAND AND CLAY WITH A LITTLE GRAVEL
129	188	HARD ROCK, GREEN AND WHITE IN COLOR

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-29

ADDRESS: 36559 HILLVIEW

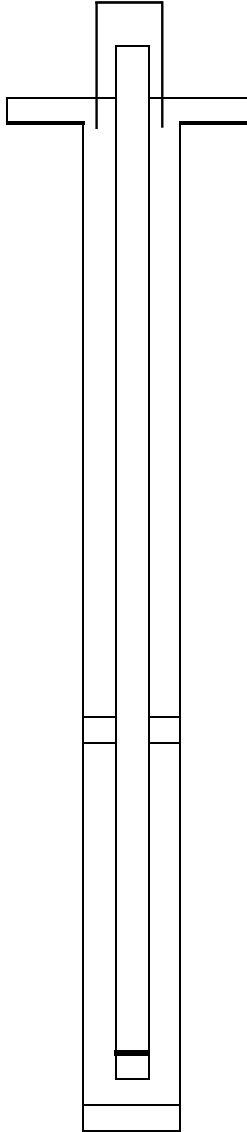
TOTAL DEPTH: 105 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 45 - 105 FT BGS

DATE DRILLED: 6/16/1983

WATER LEVEL: NOT ON LOG

**LITHOGRAPHY**

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	20	CLAY
20	35	SAND, GRAVEL, CLAY
35	55	CLAY
55	65	SAND AND CLAY
65	75	SAND
75	80	WHITE CLAY
80	98	GREEN SAND
98	105	GRANITE, 1 FOOT PER HOUR

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-30

ADDRESS: 36570 HIDDEN RIVER ROAD

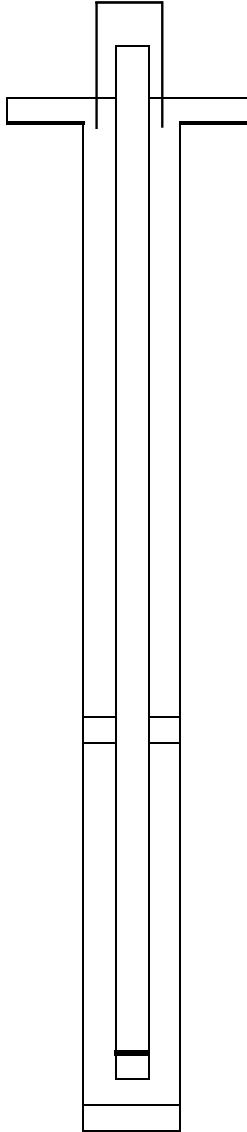
TOTAL DEPTH: 160 FT BGS

DRILLING CONTRACTOR : MCDOUGALL'S WELL DRILLING, INC

SCREENED INTERVAL: 99 - 155 FT BGS

DATE DRILLED: 3/18/1994

WATER LEVEL: 90 FT BGS

LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	5	CLAY
5	8	SAND
8	30	HEAVY BROWN CLAY
30	65	SANDY CLAY
65	70	FINE SAND, A LITTLE GRAVEL AND KAOLINE
70	80	KAOLINE SAND, AND GRAVEL
80	100	SAND, CLAY, GRAVEL, LITTLE KAOLINE
100	140	SANDY CLAY, GRAVEL, AND SMALL ROCKS
140	160	SOFT BLUE GRANITE

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-32

ADDRESS: NOT ON LOG

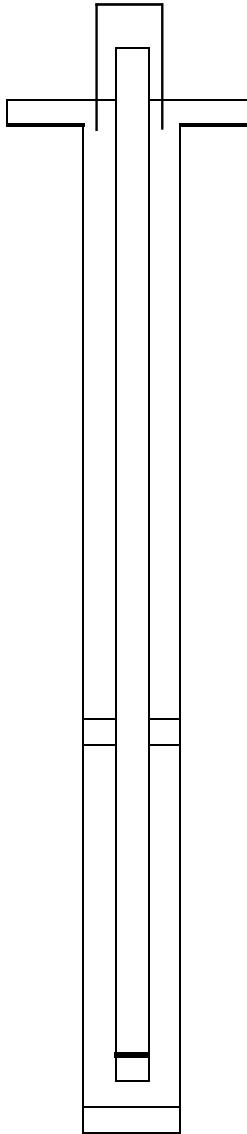
TOTAL DEPTH: 136 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 73 - 136 FT BGS

DATE DRILLED: 7/18/1986

WATER LEVEL: NOT ON LOG

**LITHOGRAPHY**

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	5	SILTS AND SAND
5	10	FINE TO COARSE SAND
10	88	SILTS AND SAND, SMALL ALTERNATING LENS OF EACH
88	92	SAND AND GRAVEL WITH 30% SILT
92	100	DECOMPOSED GRANITE WITH 25% SILT
100	110	DECOMPOSED GRANITE WITH 50% SILTS AND CLAY
110	119	DECOMPOSED GRANITE WITH 40% SILTS
119	134	DECOMPOSED GRANITE
134	136	SOLID GRANITE

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-33

ADDRESS: NOT ON LOG

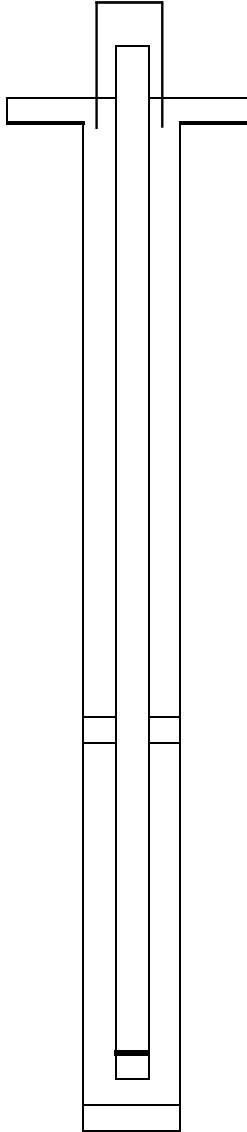
TOTAL DEPTH: 114 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 55 - 114 FT BGS

DATE DRILLED: 3/6/1984

WATER LEVEL: 91 FT BGS

LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	5	CLAY AND A LITTLE SAND
5	10	SAND AND BOULDERS
10	20	SILTY CLAY AND SAND
20	32	SILTY SAND
32	46	SILTY SAND
46	49	SILTY CLAY, FINE SAND
49	57	FINE SILTY SAND
57	59	SILTY CLAY WITH SAND
59	65	SAND WITH SILT
65	73	SAND
73	77	SILTY, WHITISH CLAY WITH SAND
77	79	SILTY SCLAY WITH SAND
79	99	SILTY SAND
99	110	SILTY SAND WITH BOULDERS
110	113	BLACK ROCK
113	114	GREEN ROCK

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-34

ADDRESS: NOT ON LOG

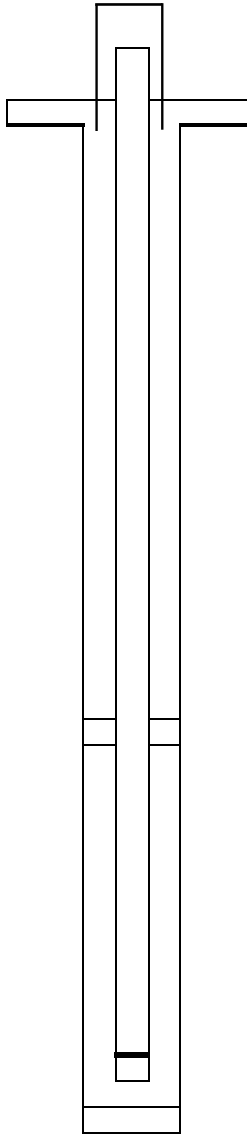
TOTAL DEPTH: 147 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 42 - 147 FT BGS

DATE DRILLED: 4/3/1986

WATER LEVEL: 82 FT BGS

**LITHOGRAPHY**

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	1	SAND
1	3	CLAY
3	5	SAND AND GRAVEL
5	8	SAND AND CLAY
8	13	SAND, LIGHT GRAVEL
13	17	CLAY WITH SAND
17	18	SAND AND LIGHT GRAVEL
18	52	CLAY WITH SAND
52	60	SAND AND HARD WHITE CLAY
60	65	SAND
65	68	SAND, SANDSTONE, AND WHITE ROCK
68	73	WHITE SANDY CLAY WITH WHITE ROCK
73	77	BROWN SANDSTONE WITH WHITE ROCK
77	81	BROWN SAND AND SANDSTONE WITH SOME SILTY CLAY
81	86	COARSE SAND AND SOME SILTY CLAY
86	97	COARSE SAND AND CLAY
97	106	COARSE SAND AND MULTICOLORED ROCK WITH SOME SILTY CLAY
106	110	WHITE AND BEIGE ROCK WITH SOME SAND AND CLAY
110	118	COARSE GRANITE - 20' PER HOUR
118	124	HARD GRANITE, 5' PER HOUR
124	127	COARSE SAND WITH FRACTURED ROCK AND BROWN SANDSTONE
127	130	COARSE SAND, SANDSTONE, AND RUST COLORED SILTY CLAY
130	133	SOFTER GRANITE, DECOMPOSED, WITH SOME SILTY CLAY
133	147	GRANITE WITH FRACTURED GRANITE.

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

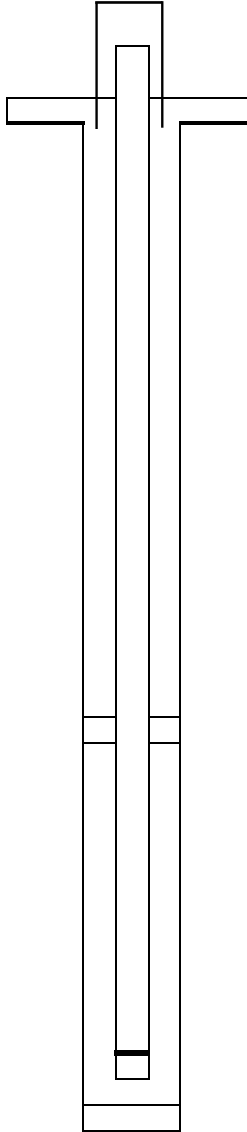
Source: Department of Water Resources

WELL NUMBER

BGS-36

ADDRESS: 36796 HIDDEN RIVER ROAD
 DRILLING CONTRACTOR : HOWARD PUMP, INC
 DATE DRILLED: 5/24/1994
 WATER LEVEL: NOT ON LOG

TOTAL DEPTH: 165 FT BGS
 SCREENED INTERVAL: 85 - 165 FT BGS

LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	2	HARD CLAY
2	20	SAND AND GRAVEL
20	26	SILTY SAND AND GRAVEL
26	56	SAND AND GRAVEL AND FINE SAND
56	79	SILTY SAND AND GRAVEL, SOME CLAY
79	93	SAND AND GRAVEL
93	120	WHITE FRACTURED ROCK AND VERY LITTLE SAND
120	165	BLACK ROCK, SOME BROWNISH IN COLOR

NOTE: DRAWING NOT TO SCALE.

THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.

Source: Department of Water Resources

WELL NUMBER

BGS-37

ADDRESS: NOT ON LOG

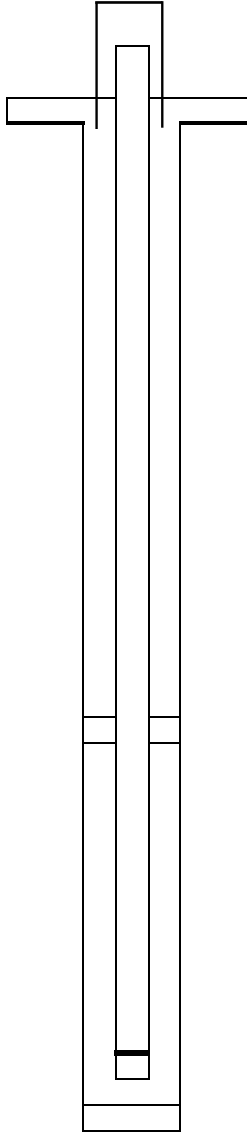
TOTAL DEPTH: 160 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 55 - 160 FT BGS

DATE DRILLED: 9/4/1991

WATER LEVEL: 90 FT BGS

LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	2	SAND AND GRAVEL
2	6	SILTY CLAY AND SOME GRAVEL
6	8	SAND AND GRAVEL
8	18	SAND AND CLAY
18	64	SAND AND GRAVEL
64	69	GREEN SILTY SAND AND SOME GRAVEL
69	74	SAND AND GRAVEL
74	94	CLAY AND SOME SAND
94	104	SAND AND GRAVEL
104	155	HARD ROCK, GREEN IN COLOR AND SOME BLACK
155	160	HARDER ROCK LOOKS LIKE GRANITE

NOTE: DRAWING NOT TO SCALE.**THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.**

Source: Department of Water Resources

WELL NUMBER

BGS-39

ADDRESS: NOT ON LOG

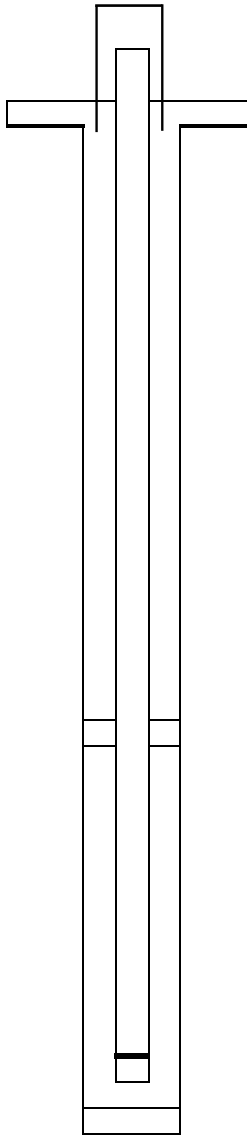
TOTAL DEPTH: 152 FT BGS

DRILLING CONTRACTOR : HOWARD PUMP, INC

SCREENED INTERVAL: 72 - 152 FT BGS

DATE DRILLED: 6/20/1984

WATER LEVEL: NOT ON LOG



LITHOGRAPHY

TOP DEPTH:	BOTTOM DEPTH:	DESCRIPTION FROM LOG:
0	13	SILTY CLAY AND SOME SAND
13	28	SAND AND GRAVEL WITH A LITTLE SILT
28	65	SAND AND SILT
65	69	SILTY CLAY AND SOME SAND
69	85	SAND AND GRAVEL WITH A LITTLE SILT
85	95	SAND AND SILT
95	100	DECOMPOSED GRANITE AND SILT
100	120	DECOMPOSED GRANITE
120	125	DECOMPOSED GRANITE AND SILT
125	152	DECOMPOSED GRANITE

NOTE: DRAWING NOT TO SCALE.

THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.

Source: Department of Water Resources

WELL NUMBER

BGS-51

ADDRESS: 23420 ALCUDIA ROAD

TOTAL DEPTH: 200 FT BGS

DRILLING CONTRACTOR : D.A. MILLIS

SCREENED INTERVAL: 160 - 200 FT BGS

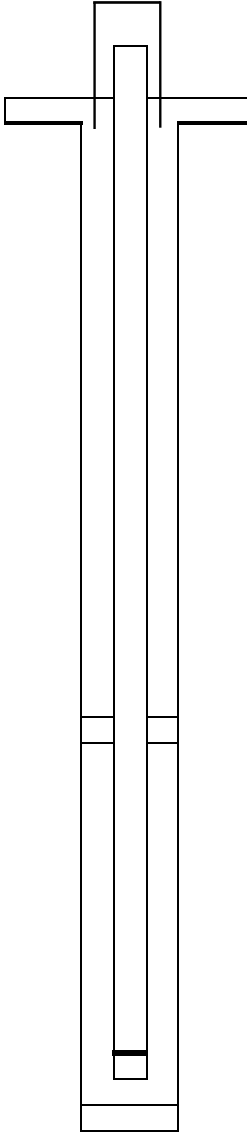
DATE DRILLED: 9/4/1979

WATER LEVEL: NOT ON LOG

LITHOGRAPHY

TOP DEPTH: | BOTTOM DEPTH: | DESCRIPTION FROM LOG:

NO LITHOGRAPHY PROVIDED



NOTE: DRAWING NOT TO SCALE.

THIS IS A SUMMARY OF BORING LOG INFORMATION FROM AN EXISTING WELL BASED ON THE WELL COMPLETION REPORT.

Source: Department of Water Resources

Appendix I

Statistical Analysis Methodology

Statistical Analysis

I.1 Use of Well Averages

The expansion of the background study well list after the second sampling event has the potential to introduce bias into the overall summary statistics, due to the unbalanced nature of the data set (i.e., 4 quarters of data are not available for all wells). To restrict this bias, the arithmetic average Cr(T) and Cr(VI) concentrations from each well was used (the mean of all available results from a given well, whether that be 1, 2, 3, or 4 data points). This approach prevents bias by any particular well over another, since each well is represented by one arithmetic mean result instead of by the actual number of samples taken at that well. This approach has the added benefit of dampening the effects of the most elevated values in the sample set by averaging those results with lower results from other sampling

I.2 Summary Statistics

Summary statistics for both total and hexavalent chromium are presented in Table I-1. The statistics include:

- The number of detects, number of samples, mean, median, standard deviation, minimum detect, maximum detect, and percent detects for all well averages.
- The probabilities (p-values) from the Shapiro-Wilk test (W test) provide evidence about whether the background total and hexavalent chromium concentrations are normally or lognormally distributed. When the p-value is less than 0.05, the assumption of normality (or lognormality) may be rejected.
- The upper tolerance limit (UTL) for total and hexavalent chromium in background study samples.

The UTL values presented are the upper confidence limit (UCL) of the 95th percentile of the background population (USEPA, 2004).

I.3 Data Set Distribution

Applying a traditional constant proxy value (e.g., ½ the method detection limit) for values that are below the laboratory reporting limit (i.e., non-detects) can decrease the probability that the background concentrations are normally or lognormally distributed. With this data set, 25 percent and 15 percent of the samples were non-detect for total and hexavalent chromium, respectively. The assumption of normality was rejected for the entire data set largely due to the repeated values of ½ the detection limit in the data set.

TABLE I-1
 Summary Statistics for Total and Hexavalent Chromium Background Study Well Averages (µg/L)

Parameter	Median	Mean ¹	Standard Deviation ¹	Number of Detects	Number of Samples	Percent Detects	Normality p-value Using 1/2 DL for NDs	Lognormality p-value Using 1/2 DL for NDs	Normality p-value Considering Detects Only	Lognormality p-value Considering Detects Only	Min. Detect	Max. Detect	Normal 95/95 UTL ²
Chromium	1.69	1.52	0.824	36	48	75	0.001	<0.0005	0.400	0.007	0.683	2.8	3.23
Hexavalent chromium	1.45	1.19	0.915	41	48	85	0.004	<0.0005	0.121	<0.0005	0.181	2.57	3.09

Note:

¹ The mean and standard deviation were calculated using a maximum likelihood method.

² The Normal UTL is the recommended background threshold values as discussed in the text.

One alternative to testing the normality of the full data set (including proxy values for the non-detects) is an ad hoc normality test of the detected values only (USEPA, 2006). As shown in Table I-1, when the Shapiro-Wilk normality test was applied only to the detect values of the data set, the p-values were both higher than 0.05 (0.40 for total chromium and 0.12 for hexavalent chromium). This suggests that the parent populations for both data sets are normally distributed. This can be visualized in the probability plots (Figures 5-4 and 5-5 in the main body of the report) where the detected values on these plots form a relatively straight line between the measured concentrations and the normal quantiles, which would indicate a relatively normal population.

The similarity of the sample data to a normal distribution (as supported by the probability plots and normality testing of detected concentrations) led to the assumption that the true background dataset is normally distributed for both total and hexavalent chromium.

I.4 UTL Calculation

A maximum likelihood estimate (MLE) provides the most likely estimate of the true parameter (e.g. the mean) of a population from which sample data are available. Given that, the MLE of the true mean of a normally distributed population is simply the mean calculated from the sample data, although it is not typically referred to as an MLE.

With different forms of data, the MLE of a parameter can involve more complex approaches. For instance, the MLE of a population mean when the sample data includes non-detects can be calculated in other ways than simply averaging the detected values and proxies for the non-detects (typically $\frac{1}{2}$ the detection limit).

One such MLE approach mentioned in USEPA guidance involves Cohen's method (USEPA, 1992). This approach depends on an assumption of normality and uses the detected concentrations along with the number of detects and non-detects to provide an estimate of the mean (without actually assigning proxy values for the non-detects). Cohen's method can provide an MLE estimate for both the mean and standard deviation from sample data including non-detects. It is typically applied by adjusting the mean and standard deviation of the detected results via values provided in look-up tables.

Recently, USEPA has recommended an alternative method (over Cohen's) of obtaining the appropriate adjustments for non-detects be applied by using the Newton-Raphson method (USEPA, 2006). Again, this method does not apply proxy values for non-detects. This method was used in calculating the MLE estimates of the mean and standard deviation for total and hexavalent chromium for the Hinkley Groundwater Background Study. These mean and standard deviation values were then used in the equation for calculating normal 95th percent UTLs for Cr(T) and Cr(VI) using the following equation:

$$UTL = \bar{x} + (K \times s) \quad (1)$$

Where

- \bar{x} is the sample mean.
- K is the tolerance factor.
- s is the sample standard deviation.

The 95th percent UTLs calculated in this study are 3.09 µg/L for hexavalent chromium and 3.23 µg/L for total chromium (Table 6-1).