



Stantec

**Light Non-Aqueous Phase Liquid
(LNAPL) Recovery Status Report**

**Chevron 90504
15900 Hesperian Boulevard
San Leandro, California**

RECEIVED

9:50 am, Sep 04, 2012

Alameda County
Environmental Health

Submitted to:

Mr. Mark Detterman
Alameda County Health Care
Services Agency
Department of Environmental Health
Services, Environmental Protection
Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Prepared for:

Chevron Environmental Management
Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

Submitted by:

Stantec Consulting Services Inc.
15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032

August 31, 2012



Carryl MacLeod
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6506
CMacleod@chevron.com

August 31, 2012

Mr. Mark Detterman
Alameda County Health Care Services Agency
Department of Environmental Health Services, Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Dear Mr. Detterman:

Attached for your review is the *LNAPL Recovery Status Report* for Chevron 90504, located at 15900 Hesperian Blvd., San Leandro, California. This report was prepared by Stantec Consulting Services, Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 356-6124 or travis.flora@stantec.com.

Sincerely,

A handwritten signature in blue ink that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager



Stantec Consulting Services, Inc.
15575 Los Gatos Boulevard, Building C
Los Gatos, CA 95032
Tel: (408) 356-6124

Stantec

August 31, 2012

Mr. Mark Detterman
Alameda County Health Care Services Agency
Department of Environmental Health Services, Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

RE: **LNAPL Recovery Status Report**

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (Chevron), Stantec Consulting Services Inc. (Stantec) is pleased to submit this *Light Non-Aqueous Phase Liquid (LNAPL) Recovery Status Report* for Chevron 90504, which is located at 15900 Hesperian Blvd., San Leandro, Alameda County, California (the Site – **Figure 1**). This report was prepared at the request of the Alameda County Department of Environmental Health Services (ACDEHS) in correspondence dated July 13, 2012 (**Appendix A**).

LNAPL Monitoring and Recovery Summary

To facilitate LNAPL recovery efforts during the month of August 2012, Stantec monitored well C-2 weekly for LNAPL thickness. This well is located along the western edge of the Site between Hesperian Blvd. and the underground storage tanks (USTs; shown on **Figure 2**). If LNAPL was measured in well C-2, the LNAPL (generally a mixture of LNAPL and groundwater) was recovered using disposable bailers and stored on Site in a 35-gallon drum with a 55-gallon drum used as over-pack. During each LNAPL monitoring and recovery event, one (1) new SoakEase™ absorbent sock was placed inside a stainless steel canister in well C-2 with the bottom of the sock positioned approximately one foot below the measured static groundwater level. Following replacement of the absorbent sock in well C-2, the used absorbent sock was stored in the 35-gallon drum on Site. Weekly LNAPL monitoring and recovery field data sheets are included in **Appendix B**.

Observations of LNAPL in well C-2 during August 2012 included:

- LNAPL thickness was measured at 0.10 feet on August 3, 2012;
- LNAPL thickness was measured at 0.08 feet on August 10, 2012; and
- No measureable LNAPL was observed on August 15, August 24, and August 30, 2012.

Based on calculations using LNAPL thickness, the August 2012 totals for well C-2 include:

- A total of approximately 200 milliliters (0.053 gallons) of LNAPL were recovered; and
- A total of approximately 5 Liters (1.32 gallons) of total fluids (LNAPL and groundwater mixture) were recovered.

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Chevron 90504
15900 Hesperian Blvd. San Leandro, California
August 31, 2012
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Waste

No LNAPL disposal occurred during the month of August 2012. There is currently one 35-gallon drum on Site containing approximately 1.3 gallons of LNAPL and groundwater mixture. This drum is stored in a 55-gallon drum as over-pack. Used absorbent socks are also stored in the drum. The drum is labeled and stored on Site pending waste profile evaluation by Conestoga-Rovers & Associates (CRA). CRA will arrange for the waste to be removed and disposed of by a California-licensed waste hauler. The recovered LNAPL and groundwater will be disposed of by a waste disposal company in accordance with all applicable regulatory requirements.

Recommendations

Stantec will continue to monitor levels of LNAPL in well C-2 and present the results in quarterly groundwater monitoring and LNAPL recovery reports according to the schedule provided by the ACDEHS in their correspondence dated July 13, 2012. Due to the limited accumulation of LNAPL observed in well C-2 during August 2012, Stantec will reduce the frequency of LNAPL monitoring and recovery events from weekly to monthly starting September 2012. The frequency may be further adjusted as necessary based on future field observations.

If you have any questions regarding the contents of this report, please contact the Stantec project manager, Travis Flora, at (408) 356-6124 or travis.flora@stantec.com.

Sincerely,
Stantec Consulting Services, Inc.



Travis L. Flora
Project Manager

Attachments:

Figure 1 – Site Location Map
Figure 2 – Site Plan

Appendix A – ACDEHS Correspondence
Appendix B – Field Data Sheets

cc: Ms. Carryl MacLeod, 6101 Bollinger Canyon Road, San Ramon, CA 94583
(electronic copy)
Mr. Scott Bohannon, Bohannon Organization, 60 31st Avenue, San Mateo, CA
94403 (electronic copy)

Stantec

LNAPL Recovery Status Report
Chevron 90504
15900 Hesperian Blvd. San Leandro, California
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LIMITATIONS AND CERTIFICATION

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the Site. It was prepared for the exclusive use of Chevron for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

Prepared by:



Sucheon Sung
Project Specialist

Reviewed by:



Travis L. Flora
Project Manager

All information, conclusions, and recommendations provided by Stantec in this document regarding the Subject Property have been prepared under the supervision of and reviewed by the Licensed Professional whose signature appears below:

Licensed Approver:

Name: James P. May, P.G.

Date: 31 AUG 2012

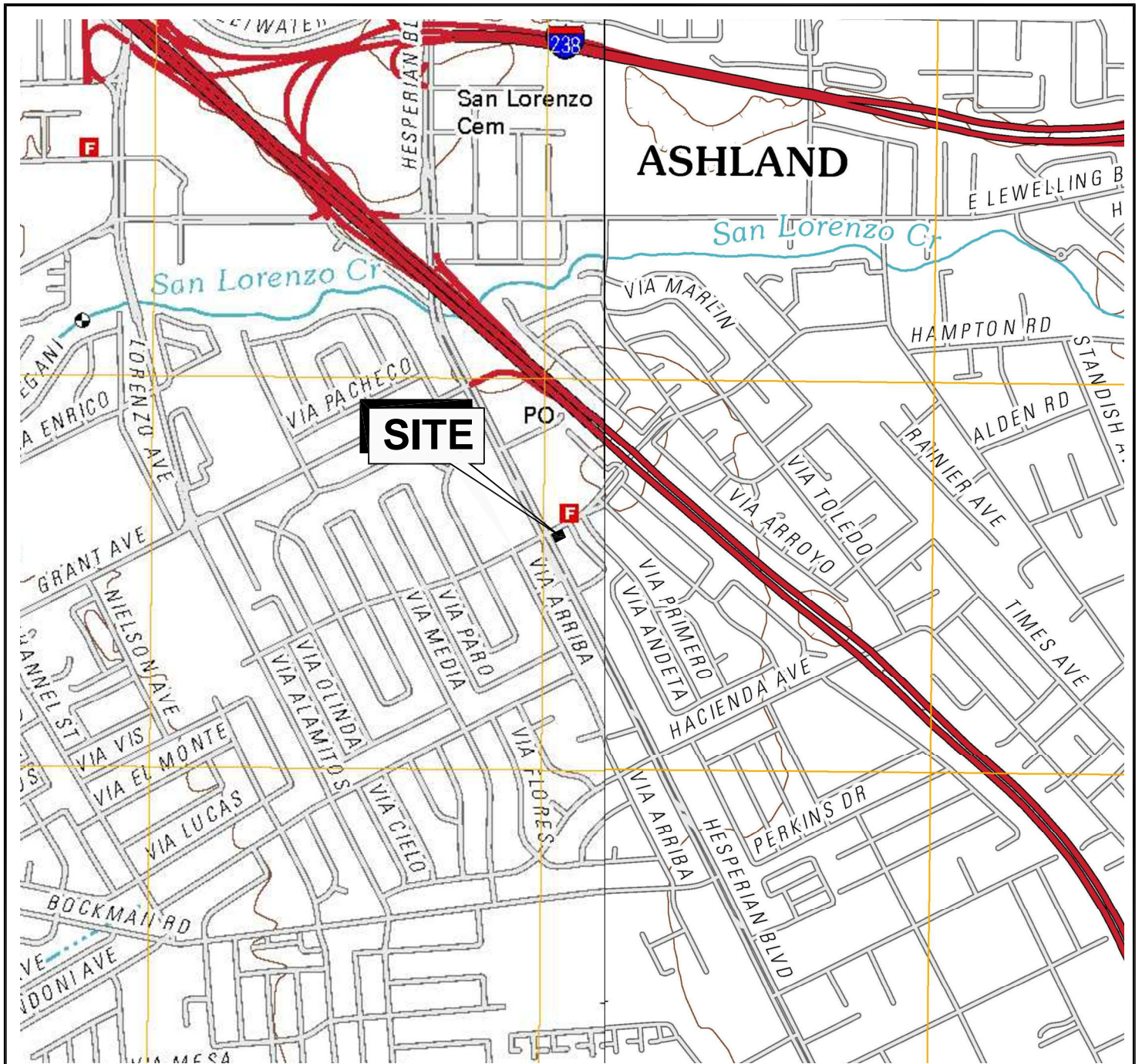
Signature:



Stamp:



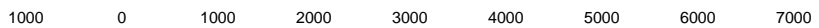
Figures



CALIFORNIA



SCALE IN MILES



SCALE IN FEET

REFERENCE: USGS 7.5 MINUTE QUADRANGLES;
SAN LEANDRO, CALIFORNIA; 2012 AND HAYWARD, CALIFORNIA; 2012



Stantec

15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032

PHONE: (408) 356-6124 FAX: (408) 356-6138

FOR:

15900 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

SITE LOCATION MAP

FIGURE:

1

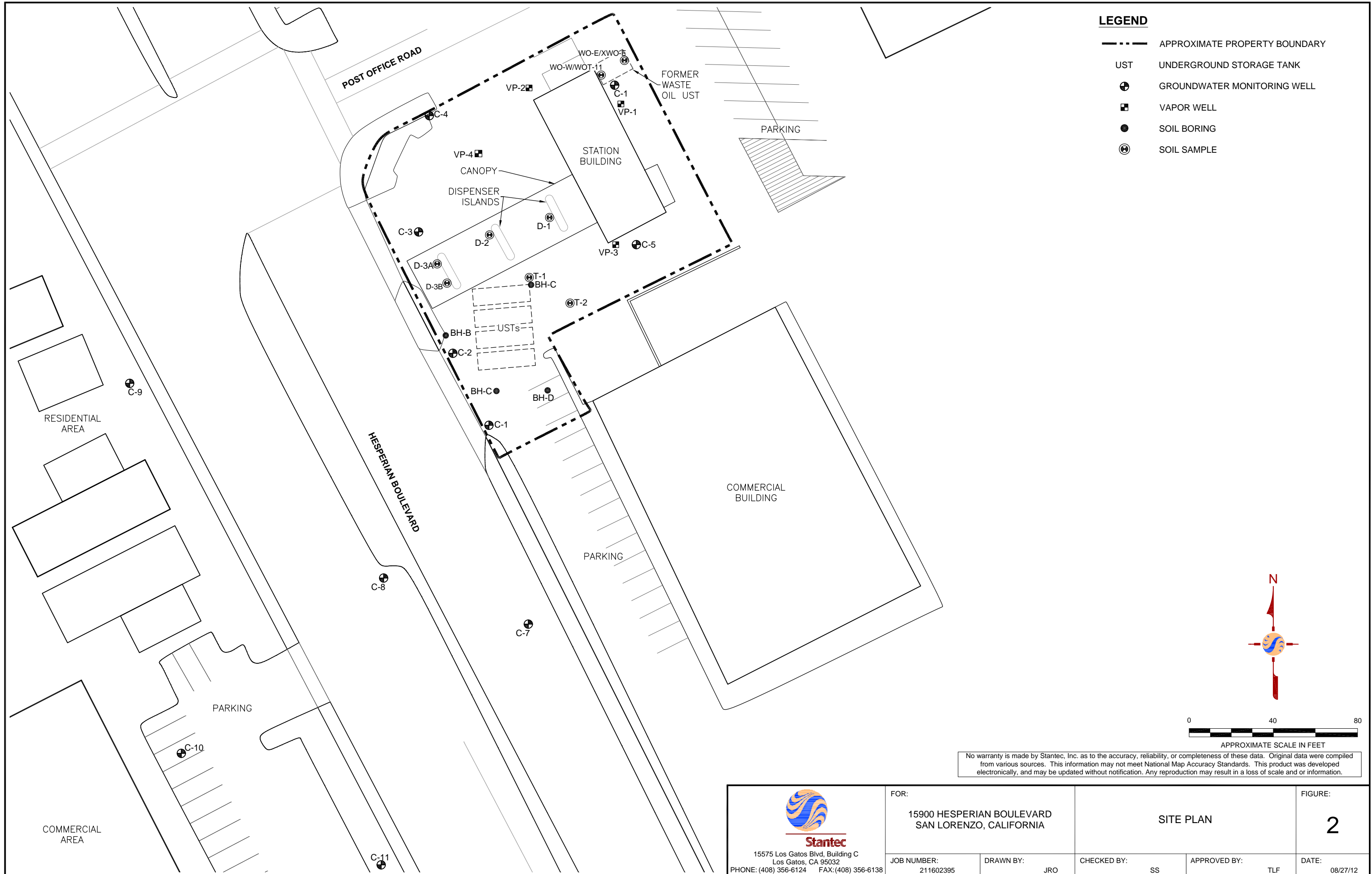
JOB NUMBER:
211602395


DRAWN BY:
JRO

CHECKED BY:
SS

APPROVED BY:
TLF

DATE:
08/27/12



 Stantec 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 PHONE: (408) 356-6124 FAX: (408) 356-6138	FOR: 15900 HESPERIAN BOULEVARD SAN LORENZO, CALIFORNIA		SITE PLAN		FIGURE: 2
	JOB NUMBER: 211602395	DRAWN BY: JRO	CHECKED BY: SS	APPROVED BY: TLF	DATE: 08/27/12

Appendix A

ACDEHS-EPD Correspondence



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

July 13, 2012

Ms. Alexis Fischer
Chevron Environmental Management
6101 Bollinger Canyon Road
San Ramon, CA 94583
(sent via electronic mail to:
Olivia.Skance@chevron.com)

Mr. Scott Bohannon
Bohannon Organization
60 31st Avenue
San Mateo, CA 94403
(sent via electronic mail to:
Scott.Bohannon@ddbo.com)

Mr. Bob Webster
Bohannon Organization
60 31st Avenue
San Mateo, CA 94403
(sent via electronic mail to:
Robert.Webster@ddbo.com)

Subject: Request for LNAPL Recovery Efforts; Fuel Leak Case No. RO0000007 (Global ID # T0600100302), Chevron #9-0504, 15900 Hesperian Blvd., San Lorenzo, CA 94580

Dear Ms. Fischer, and Messrs. Bohannon and Webster:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site, including the *2012 Annual Groundwater Monitoring and Sampling Report*, dated May 15, 2012 prepared by Conestoga-Rovers & Associates (CRA) of Rancho Cordova, California.

Review of the referenced report indicates that well C-2 contained 0.30 feet of Light Non-Aqueous Phase Liquid (LNAPL) described to be light brown in color. In discussing the discovery with the UST inspector in the County's CUPA Program, it is understood that troubles with the diesel turbine pump were recently encountered at the site. Based on the history of non-detectable results at this well, and the reported presence of LNAPL, this appears to be a new release.

Based on the review of the case file ACEH requests that you address the following technical comments and send us the documents requested below.

TECHNICAL COMMENTS

- 1. Request to Abate and Recover LNAPL** – As noted above, the recent discovery of LNAPL at the site indicates a new release of fuel product from the UST system at the site. As a consequence, ACEH requests continuing, appropriate, and timely efforts to abate and recover the LNAPL product from the site. Quick efforts will minimize the environmental consequences associated with the release. ACEH requests the submittal of a status report by the date identified below.
- 2. Request to Work With CUPA** – The new release indicates that the tank system should be tested to determine the release source as liquids have not been reported to have been detected in tank system sumps. ACEH requests that Chevron work with the County's CUPA inspector to achieve this request. County CUPA personnel have been made aware of the release and are copied with this letter.
- 3. Revised Groundwater Monitoring Schedule** – The site has been on an annual groundwater monitoring schedule pending review for potential closure; however, the presence of LNAPL indicates the schedule should be revised to a quarterly schedule while the LNAPL is recovered in order to determine associated environmental consequences at the site. In addition to well C-2, this is initially requested to include wells C-1, C-7, and C-8. The remaining wells can remain on the existing annual schedule until otherwise determined appropriate by analytical results in the wells more proximal to the release location.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mark Detterman), according to the following schedule:

- **August 31, 2012** - LNAPL Recovery Status Report
- **October 26, 2012** – Third Quarter 2012 Groundwater Monitoring and LNAPL Recovery Report
- **February 1, 2013** – Fourth Quarter 2012 Groundwater Monitoring and LNAPL Recovery Report
- **May 31, 2013** – First Quarter 2013 Groundwater Monitoring and LNAPL Recovery Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,



Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou, email, c=US
Date: 2012.07.13 13:45:48 -07'00'

Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: James Kiernan, 10969 Trade Center Drive, Suite 106, Rancho Cordova, CA 95670
(sent via electronic mail to jkiernan@croworld.com)

Steven Plunkett, (sent via electronic mail to steven.plunkett@acgov.org)

Donna Drogos, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
Electronic File, GeoTracker

Appendix B

Field Data Sheets

SITE VISITATION REPORT
LNAPL Removal - Chevron 90504, San Lorenzo, CA

Name(s) CLARA MANI/TAYLOR Date: 8/3/12 Time of Arrival Call-In: _____
Arrival Time: 9:55 Departure Time: 13:10 Time of Departure Call-In: _____
Who did you call? _____

DRUM INVENTORY

<u> </u> WATER	<u> </u> CARBON	TOTAL OPEN TOP
<u> </u> SOIL	<u> </u> EMPTY	TOTAL BUNG TOP

HEALTH AND SAFETY ASSESSMENT

10:15 BEGIN H&S MEETING w/ CUX REP

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

9:55 ARRIVE AT SITE / WAIT FOR CUX REP
11:00 BEGIN TRAFFIC CONTROL TEMP AFTER H&S MEETING
w/ CUX REP
12:55 STORED DRUM BY SECONDARY CONTAINMENT
IN TRASH ENCLOSURE AS PER MANAGEMENT
REQUEST
13:10 DEPART SITE

Stantec Consulting
HYDROLOGIC DATA SHEET

Gauge Date: 8/3/12

Project Name: Chevron 90504

Field Technician: TAYLOR COEIAS / CLARK NAME Project Number: 211602395

DTP = Depth to Free Product (FP or NAPL) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y ~~N~~ NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y ~~X~~ N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	12:00	10.13	10.23	—	Y	N	N	PURGED APPROX 2 LITERS H ₂ O @ 100 mL SPH

SITE VISITATION REPORT
LNAPL Removal - Chevron 90504, San Lorenzo, CA

Name(s) CLARE MARIE Date: 8/10/2012 Time of Arrival Call-In: _____
Arrival Time: 14:15 Departure Time: 16:05 Time of Departure Call-In: 16:05
Who did you call? T. FLOZA

DRUM INVENTORY

<u>X</u>	WATER	_____	CARBON	TOTAL OPEN TOP	_____
_____	SOIL	_____	EMPTY	TOTAL BUNG TOP	_____

HEALTH AND SAFETY ASSESSMENT

H&S CONDUCTED RISK TO TRAFFIC CONTROL / FIELD WORK
ON SITE

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

14:15 ARRIVE ON SITE / INFORM STATION MANAGER
14:30 BEGIN TRAFFIC CONTROL SET-UP AFTER H&S
14:45 BEGIN LNAPL REMOVAL FIELD WORK
16:05 SIGN OUT W/ STATION MANAGER / CALL-IN DEPARTURE TO T. FLOZA
17:00 ARRIVE AT OFFICE / BEGIN TO UNLOAD TRUCK
17:00 FINISH UNLOADING TRUCK

Stantec Consulting
HYDROLOGIC DATA SHEET

Gauge Date: 8/10/2012

Project Name: Chevron 90504

Field Technician: CLARA MAKI

Project Number: 211602395

DTP = Depth to Free Product (FP or NAPL) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y N NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	14:45	10.17	10.25	—	Y	N	N	PURGED APPROX. 3 LITERS H ₂ O @ 100 mL SPH

Stantec Consulting
HYDROLOGIC DATA SHEET

Gauge Date: ~~8/15/12~~ ^{8/15/12}

Project Name: Chevron 90504

Field Technician: CLARA MAHE/TAYLOR (OENAS)

Project Number: 211602395

DTP = Depth to Free Product (FP or NAP) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y N NA

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	10:40	10.25	10.26	—	N	Y	N	NO SPH REMOVED

Stantec Consulting
HYDROLOGIC DATA SHEET

Gauge Date: 8/24/12

Project Name: Chevron 90504

Field Technician: C. MAW

Project Number: 211602395

DTP = Depth to Free Product (FP or NAPL) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y N

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y ~~N~~

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	9:55	—	10:30	—	—	—	NO MEASURABLE SP-1	

SITE VISITATION REPORT
LNAPL Removal - Chevron 90504, San Lorenzo, CA

Name(s) CLARA MAHE Date: 8/30/12 Time of Arrival Call-In: 9:30
Arrival Time: 9:30 Departure Time: 10:00 Time of Departure Call-In: 10:00
Who did you call? T. FLOLA

DRUM INVENTORY

<u> </u> WATER	<u> </u> CARBON	<u> </u> TOTAL OPEN TOP
<u> </u> SOIL	<u> </u> EMPTY	<u> </u> TOTAL BUNG TOP

HEALTH AND SAFETY ASSESSMENT

H&S ASSESSMENT CONDUCTED AT 9:30

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

9:30 ARRIVE ON SITE / CHECK-IN W/ STATION MANAGER
CONDUCT H&S ASSESSMENT
BEGIN LNAPL MEASUREMENT / REMOVAL FIELD WORK
10:00 DEPART SITE / MOB BACK TO OFFICE

Stantec Consulting
HYDROLOGIC DATA SHEET

Gauge Date: 8/30/12

Project Name: Chevron 90504

Field Technician: CLARK MAW

Project Number: 211602395

DTP = Depth to Free Product (FP or NAPL) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y N

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
C-2	5 - 20	NA	9:45	—	10.35	—	N	—	—	NO NAPL MEASURED / REMOVED