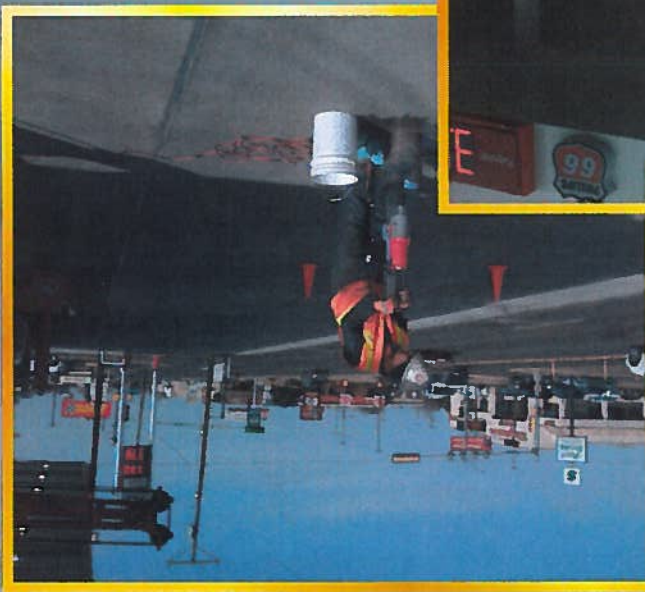


BROWN ENVIRONMENTAL, INC.
6739 ACADEMY ROAD, NE, SUITE 254 ALBUQUERQUE, NEW MEXICO 87109
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MINIMUM SITE ASSESSMENT REPORT ALLSUPS #320 FACILITY CLOVIS, NEW MEXICO



Submitted To:

Mr. Jeff Scarborough
Allsups Petroleum, Inc.
2112 Thornton Ave.
Clovis, New Mexico 88102

Ms. Renee Romero
NMED-PSTB
1914 West 2nd Street
Roswell, New Mexico 88201

May 2011



Minimum Site Assessment- Preliminary Investigation Report

Allsups #320 Facility
Clovis, New Mexico

BEI Job No. 1070
WPID #15991
DID#15991-2
Facility #31013
RID #4623

Submitted to:

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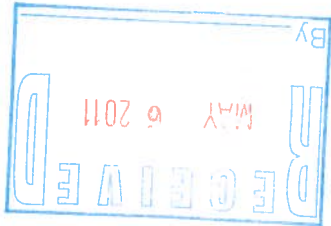


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- Appendix D Laboratory Analytical Reports

1.0 EXECUTIVE SUMMARY

Allsup's 320 Facility
Facility No. 31013
May 2011
Page 1

On behalf of Allsup's Petroleum, Inc., Brown Environmental, Inc. (BEI) performed a Minimum Site Assessment-Preliminary Investigation (MSA) at the Allsup's #320 facility located at the intersection of Prince Street and 21st Street in Clovis, New Mexico (Figure 1). The MSA was conducted to evaluate the extent of hydrocarbon releases from the former underground storage tank (UST) systems removed from the Site on January 25, 2011. The UST removal was conducted as part of a total remodeling and upgrade of the facility by Allsup's, during which a much larger facility was constructed on the Site. Figure 2 highlights the locations of both the old and the new service station/convenience store facilities and UST systems. According to available records, the Site has been the location of a gasoline service station since at least 1988. Prior to purchase by Allsup's in 2000, the facility was a Target Gas Station.

BEI MSA drilling activities took place between March 6 and March 9, 2011. A total of three boreholes were advanced at the Site to depths ranging between 69 and 209 feet below surface grade (bsg). Figure 3 highlights the location of the BEI-advanced boreholes along with confirmatory soil samples collected during the UST removal. Groundwater was not encountered during advancement of the boreholes and each was abandoned with a 6%/94% bentonite grout mixture followed by a concrete patch at the land surface.

Retrieved soil samples from BEI advanced boreholes identified three primary Lithologic Units at the Site, which are highlighted in the cross section shown in Figure 4. Lithologic Unit I consists predominantly of silt and very fine sand with lesser amounts of clayey sand and extends from the land surface to approximately 20 to 30 feet bsg. Minor to moderate stage 1 to 2 discontinuous calcium carbonate (caliche) cemented zones are present towards the bottom of this Unit. Lithologic Unit II consists primarily of silty sand with prominent continuous stage 3 to 4 caliche extending to approximately 67 feet bsg. Lithologic Unit III extends below Unit II to a depth of greater than 209 feet and consists of almost uniform, massive, very fine sand with trace amounts of silt.

During drilling, a vertically extensive vapor-phase gasoline plume was identified in sediments encountered in boreholes B-1 and B-3. Hydrocarbons identified at the Site are consistent with weathered gasoline based on laboratory analysis. In the locations sampled, adsorbed-phase total petroleum hydrocarbons (TPH) were generally restricted to the vicinity of beneath the tank pit. Trace levels of total xylenes, and/or methyl tertiary butyl ether (MTBE) were also identified in soil samples collected from boreholes B-1 and B-3 (Figure 4; Table 1). During advancement

of the deepest borehole, B-3, field headspace levels as measured by a photoionization detector (PID) exceeded 100 parts per million/volume (ppm/v) to the maximum depth. Advancement of B-3 was terminated at 209 feet bsg, because the additional hollow-stem augers needed to advance the borehole to greater depths would have required transport from Phoenix, AZ. Based on this, NMED elected to plug and abandon the boreholes and determine future actions at the Site pending the results of this current phase of work.

The vertical and horizontal extent of the soil hydrocarbon plume cannot be determined based on the available data as highlighted on Figure 4. Information provided by NMED and the New Mexico Office of the State Engineer (NMOSE) indicates the depth to groundwater in the site vicinity is approximately 300 to 320 feet bsg. Groundwater flow direction below the Site is unknown. Six City of Portales municipal wells are reportedly located within one mile of the facility and are screened in the shallow portions of the regional aquifer.

2.0 INTRODUCTION

2.1 BACKGROUND/SITE HISTORY

The Allsups #320 Facility is located in Clovis, New Mexico. Allsups purchased the facility after Re-Spec, Inc. (Re-Spec) performed a limited site assessment (LSA) in 1999. During the LSA, five borings were reportedly advanced at the Site at the approximate locations highlighted in Figure 2. Elevated PID readings were reported from borehole SB-4 at depths of 25 and 35 feet bsg. The results were submitted by NSync Environmental (NSync) to the New Mexico Environment Department-Petroleum Storage Tank Bureau (NMED) in the form of a 14-day report in May 2001. A copy of this report is included in Appendix A.

Prior to the recent station upgrade, three 8,000 gallon gasoline-containing USTs were present at the Site at the approximate locations shown in Figure 2. This older set of tanks was reportedly installed in 1988 by the previous owner (NSync, 2001). Allsups removed the former UST systems including piping and dispensers on January 24 and 25, 2011. A release notification was submitted to the NMED the following day. Mr. Bill Bryant of the NMED was present during the UST systems removal. BEI collected 12 confirmatory headspace and laboratory soil samples from the locations selected by Mr. Bryant which are shown on Figure 3. Elevated PID and soil laboratory readings were observed on select samples collected from beneath the tank excavation. No signs of hydrocarbon releases were observed in the vicinity of the former underground piping and dispenser islands. Based on the history of the Site combined with the weathered nature of the residual hydrocarbons, it is likely that soil contamination observed at the Site occurred prior to Allsups ownership.

2.2 SCOPE OF WORK

BEI's original scope of work for the project consisted of four primary tasks based on the requirements of the PSTR. These were later modified in the field based on conditions encountered in the subsurface and the presence of the new station facilities in relation to the former USTs and originally proposed drilling locations.

- Install, sample, and abandon four 50-foot deep soil borings.
- Analyze collected data and prepare and submit a MSA-PI Report pursuant to the PSTR 20.5.12.18.
- Properly dispose of investigative-derived waste (IDW).
- Extend the above referenced boreholes (if required as an optional task).

3.0 PHYSICAL SETTING

3.1 PHYSIOGRAPHY

The Site is located on Highway 70 on the northeast side of Elida, New Mexico. Site elevation is approximately 4,280 feet above mean sea level. Topography in the site vicinity generally slopes gently to the south and southeast. Several small lakes are located between 0.5 miles and 1 mile from the Site (Figure 1; Appendix A-Figure 1).

3.2 LAND USE

A BEI representative performed a drive-by inspection of the surrounding area and the air photograph in Figure 1 was analyzed as part of a land use survey. In general, the areas immediately surrounding the Site are characterized by commercial use. A shopping mall is located to the east and south with an IHOP restaurant located immediately east of the Site. Several businesses are located to the west including LA Nails located in a former service station. Walgreens and Citizens Bank are located to the north. Residential housing is located further to the east and west of the Site with continued commercial usage extending north and south along Prince Street.

3.3 72-HOUR AND 14-DAY REPORTING

To minimize costs for completion of the MSA a new 72-hour and 14-day report was not included in the approved workplan for the Site. However, a copy of the 2001 NSync 14-day report is included in Appendix A. The following information is requested in the PTR 20.5.12.12 and summarized below based on the NSync report and BEI's recent field inspection of the Site:

- Appendix A - Figure 1 presents a water supply well map for private wells within 1,000 feet and public wells within one-mile of the Site. Six City of Clovis public water supply wells were reportedly present within the one-mile search radius. These wells are reportedly screened in the shallow portions of the regional aquifer. The nearest well is Well #5 located approximately 2,700 feet to the west. Depth to groundwater was reported at approximately 300 feet bsg (NSync, 2001). Several small lakes are present within 1-mile of the Site. No impacts to groundwater receptors have been documented in the Site vicinity.
- No adverse impacts to utilities have been documented at the Site.
- Soil boring logs for the BEI-installed wells are included in Appendix B.

- No adverse effects or actions to abate such releases at the Site have been documented or required.
- No fire or health and safety hazards related to the release(s) have been documented.
- According to available records the earlier fueling systems at the Site were present and operational between 1988 and 2011. Three approximately 8,000-gallon unleaded gasoline tanks were present at the Site. A new set of tanks and dispensers has replaced these. The former USTs were connected via underground piping to dispensers, which have also been removed and replaced.
- Present land-use is discussed under Section 3.2.

3.4 GEOLOGIC SETTING

During this investigation, three boreholes were advanced at the Site to depths of up to 209 feet bsg at the locations shown in Figure 3. Retrieved soil samples from BEI advanced boreholes identified three primary Lithologic Units at the Site. These Units are highlighted in the cross section shown in Figure 4. Lithologic Unit I consists predominantly of silt and very fine sand with lesser amounts of clayey sand. This Unit extends from the land surface to approximately 20 to 30 feet bsg and transitions into the underlying Unit II. Minor to moderate stage 1 to 2 discontinuous caliche zones are present towards the bottom of Lithologic Unit I. Lithologic Unit II consists primarily of silty sand with prominent continuous stage 3 to 4 caliche extending from the base of Lithologic Unit I to approximately 67 feet bsg. The dense cemented carbonate in this interval was locally laminar and also fractured in nature and core barrel refusal was experienced at several locations in this Unit during drilling. Lithologic Unit III extends from below Unit II to a depth of greater than 209 feet and consists of massive, very fine sand with trace amounts of silt. Minor disseminated carbonate was observed in this Unit. Bedding surfaces observed in the cores appeared at or nearly horizontal in nature when present.

3.5 HYDROGEOLOGIC SETTING

Groundwater was not encountered during advancement of the three boreholes. Localized moist zones were encountered at select intervals during drilling, however, none appeared to be water saturated. Based on the NSync 2001 report, groundwater was approximately 300 feet bsg. More recent estimates provided by NMED/NMOSE suggest groundwater may be slightly deeper at approximately 320 feet bsg. With the number of municipal water supply wells located to the west of the Site, it is possible that groundwater flow is westerly in the Site vicinity.

4.0 FIELD AND LABORATORY SAMPLING METHODS AND PROCEDURES

4.1 GENERAL

This section describes the methods and procedures for the following project activities:

- Soil Boring Advancement and Abandonment
- Subsurface Soil Sampling and Analysis

As per the requirements of CFR 1910.120, BEI prepared a site-specific Health and Safety Plan prior to initiation of field activities at the Site.

4.2 SOIL BORING ADVANCEMENT AND ABANDONMENT

Three soil borings were advanced in the Site vicinity between March 6 and 9, 2011 using a CME-85 hollow-stem auger (HSA) drilling rig supplied and operated by Water Development Corporation (WDC). Borehole lithologic logs and plugging and abandonment diagrams are located in Appendix B. Each of boreholes was backfilled in multiple lifts with a 6%/94% bentonite-cement grout emplaced from the bottom of the hole to approximately 5 to 7 feet bsg followed by compacted drill cuttings to approximately one-foot below grade. A heavy-duty concrete patch was placed at the land surface to match the existing concrete parking lot.

Sediment samples were collected from each borehole on a continuous basis using 3-inch diameter, 5-foot long core barrels. Samplers were decontaminated between sample runs using an alconox solution followed by a tap water wash. Soil samples were logged by a BEI Geologist using the Unified Soil Classification System (USCS). Drill cuttings and rig activity were also observed to identify lithologic contacts. Drill cuttings were temporarily stored on-site in a 20-yard³ plastic-lined rolloff container for later removal by Gandy Marley, Inc. to their permitted landfarm in Tatum, New Mexico for final disposition. Waste disposal manifests are included in Appendix C.

4.3 SOIL SAMPLING AND ANALYSIS

During drilling activities, retrieved sediment samples were collected from the boreholes and analyzed in the field for total ionizable volatile compounds (TIVC) using a RAE-2000 photoionization detector (PID) utilizing a 10.6 eV lamp. 100 ppmV isobutylene span gas and ambient air were used to calibrate the PID prior to use.

Results of the field headspace analysis are presented on the borehole logs in Appendix B and on the cross section in Figure 4. At each drilling location, discrete sediment samples were also collected using the PSTR Methanol Extraction Method. Results of the laboratory analyses are presented in Table 1 and Appendix D. These samples were hand delivered on ice to Hall Environmental Laboratory Inc. (Hall) in Albuquerque, New Mexico for laboratory analyses. Laboratory soil samples were analyzed for one or more of the following parameters:

- Total petroleum hydrocarbons (TPH)^{gasoline range} using EPA Method 8015 modified.
- Benzene, toluene, ethyl benzene, and total xylenes (BTEX), tri-methyl benzenes (TMBs), and methyl tertiary butyl ether (MTBE) using EPA Method 8021.

During the investigation, all soil samples were handled using strict Chain-of-Custody procedures. Laboratory reports including chain-of-custody documentation are presented in Appendix D.

4.4 GEOTECHNICAL ANALYSIS

No geotechnical soil samples were collected as part of the MSA to minimize cost expenditures.

5.0 RESULTS OF THE INVESTIGATION

5.1 HYDROCARBON DISTRIBUTION IN SOIL

Table 1 and Appendix D present summaries of field headspace and/or laboratory analytical results for soil samples collected during BEI subsurface drilling operations at the Site. The magnitude and extent of soil headspace concentrations in cross-sectional view is also presented in Figure 4. In general, soil hydrocarbons at the Site were identified in soils beneath the vicinity of the former USTs.

Between the sampling conducted during the UST removal and the subsequent soil boring advancement, a total of 21 soil samples were collected for laboratory analysis. Maximum TPH concentrations measured at the Site were 2,770 milligrams/kilogram (mg/kg) in a sample collected from a depth of 15 feet bsg beneath the northeast corner of the tank pit. The only samples with reported benzene values exceeding the laboratory method detection limits (MDLs) were also collected from directly beneath the former tank vault.

With only three soil borings advanced at the Site, the vertical and horizontal extent of the subsurface hydrocarbon plume cannot be fully determined. The highest levels of soil contamination during the MSA drilling were identified in borehole B-3. With few exceptions, field headspace measurements on soil samples collected during advancement of B-3 remained above 100 ppm/v to the base of the borehole at 209 feet bsg. Based on laboratory analytical data, the adsorbed-phase hydrocarbon plume may be limited in nature. The vapor-phase gasoline hydrocarbon plume is substantially larger (Figure 4). Laboratory chromatographic analysis indicates residual gasoline hydrocarbons appear weathered in nature with total xylenes and MTBE being the most common trace adsorbed-phase contaminants with depth.

It is unknown whether the soil hydrocarbon plume extends deeper towards the regional water table.

5.2 HYDROCARBON RESIDUAL SPILL MASS ESTIMATES

Not enough information is available to calculate residual hydrocarbon spill mass estimates at this time.

6.0 CONCLUSIONS

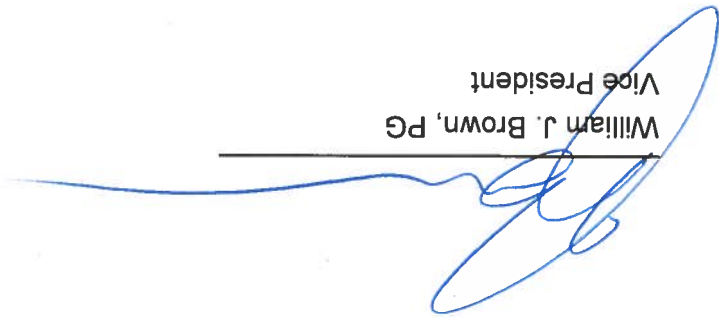
Based on the limited data collected during the MSA, the following conclusions are presented:

- Drilling data suggest hydrocarbon releases at the Site are from the vicinity of the former USTs.
- Analysis of laboratory chromatograms and hydrocarbon range breakdowns indicate the hydrocarbons identified at the Site are consistent with weathered gasoline.
- Site geology as observed in retrieved soil samples can be subdivided into three primary Lithologic Units. Shallow sediments are typically silty sand to clayey silty sand. A prominent caliche zone is present at the Site from approximately 20 to 30 feet bsg to approximately 67 feet bsg. Deeper sediments consist of a nearly uniform massive fine grained sand with trace silt extending to below 209 feet bsg.
- Six municipal wells are reported within one mile of the Site and are screened in the shallow portions of the regional aquifer.
- Depth to groundwater is reportedly between approximately 300 and 320 feet bsg. The direction of groundwater flow is unknown but may be toward the municipal wells located primarily to the west and west-southwest of the Site.
- An extensive weathered gasoline vapor plume is present beneath the Site. The extent of adsorbed-phase hydrocarbons appears to be limited.
- The extent of soil hydrocarbon impacts have not been fully characterized. It is unknown whether gasoline hydrocarbons extend to the regional groundwater aquifer.


7.0 STATEMENT OF FAMILIARITY

We are personally familiar with the information presented in this report and it is accurate and complete to the best of our knowledge.

Brown Environmental, Inc.



William J. Brown, PG
Vice President


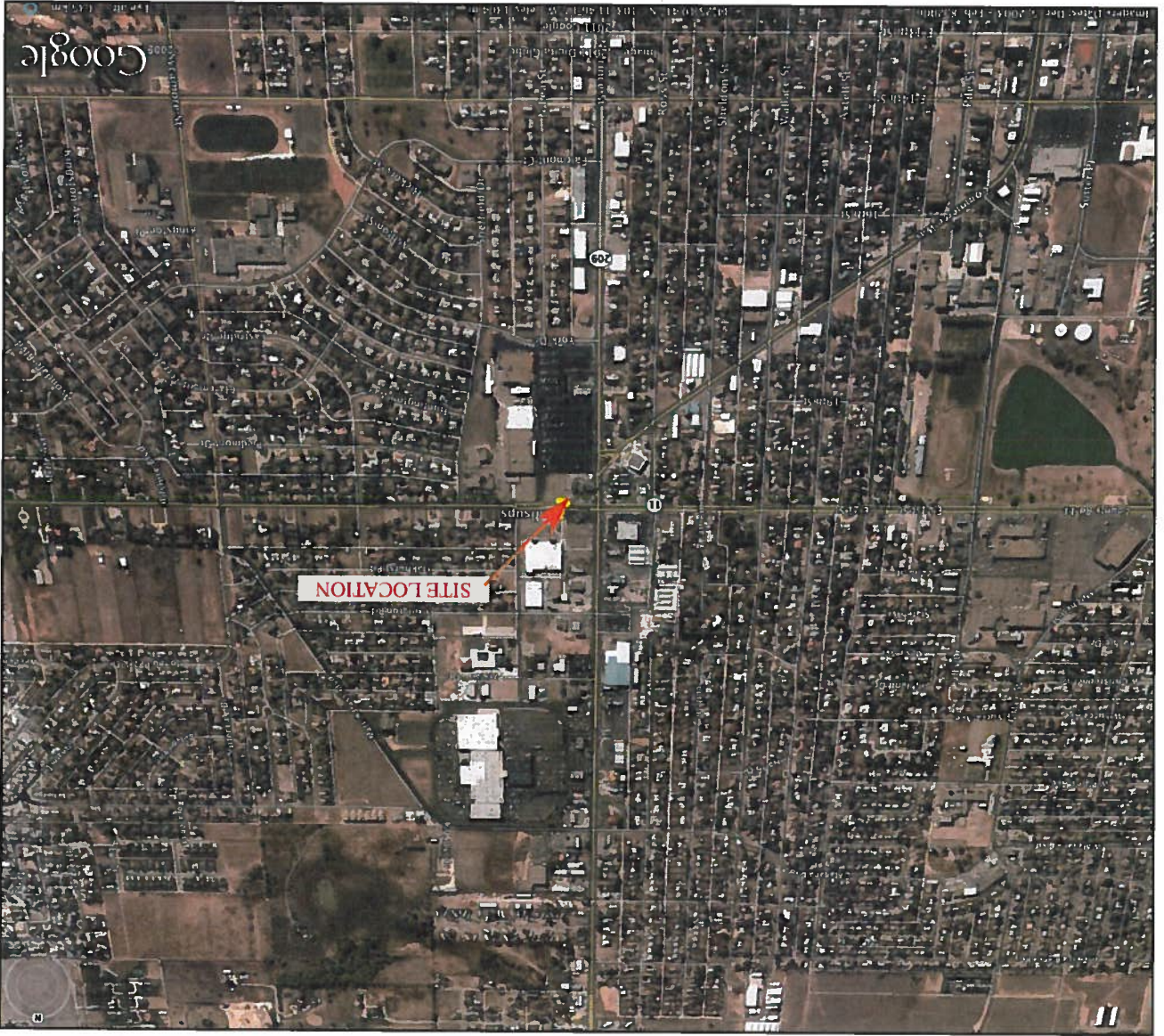
Site Vicinity Map Allsups #320 Facility 2021 North Prince Street Portales, New Mexico 88130		
 BROWN ENVIRONMENTAL, INC. <small>2700 UNIVERSITY ROAD, NEW MEXICO 87001 ALBUQUERQUE, NEW MEXICO 87105 PHONE: (505) 249-8888 FAX: (505) 249-0077</small>		
Drawn by:	WJB	5/11
Client:	Allsups Petroleum	
Drafted by:	EMB	5/11
Job #:	1070	
Reviewed by:	WJB	5/11
Figure:	1	

EXPLANATION:

Downloaded from Google Earth Maps,
Image @ 2009 DigitalGlobe @ 2011 Tele Atlas

scale
0 0.25 0.5 mile

NORTH

**TABLE 1
SUMMARY OF SOIL LABORATORY ANALYTICAL DATA ALLSUPS #320 FACILITY
CLOVIS, NEW MEXICO**

LOCATION OF SAMPLE	SAMPLE DATE	LABORATORY ANALYTICAL METHOD	TPH GASOLINE RANGE ORGANICS (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	METHYL TERTIARY BUTYL ETHER (MTBE) (mg/kg)
Tank #1 North 15'	1/25/11	8015/8021	2770	4.5	85	46	470	<5.0
Tank #1 South 13'	1/25/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
Tank #2 North 15'	1/25/11	8015/8021	27.7	0.076	0.33	0.57	3.2	<0.10
Tank #2 South 13'	1/25/11	8015/8021	10.1	<0.050	<0.050	<0.050	0.28	<0.10
Tank #3 North 12'	1/25/11	8015/8021	19.4	<0.050	<0.050	0.081	1.0	<0.10
Tank #3 South 13'	1/25/11	8015/8021	381	0.82	19	11	56	<1.0
Product Line #1 4'	1/25/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
SW Dispenser 3'	1/25/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
NW Dispenser 3'	1/25/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
NE Dispenser 3'	1/25/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
SE Dispenser 3'	1/25/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
BW-1-37' (Caliche)	3/6/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
BW-1-63' (SM)	3/6/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
BW-2-40' (Caliche)	3/7/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
BW-2-69' (SM)	3/7/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
BW-3-54' (SM)	3/7/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
BW-3-73-74' (SM)	3/7/11	8015/8021	<5.0	<0.050	<0.050	<0.050	0.12	<0.10
BW-3-104' (SM)	3/7/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
BW-3-159' (SM)	3/8/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	0.10
BW-3-189' (SM)	3/8/11	8015/8021	<5.0	<0.050	<0.050	<0.050	0.15	0.11
BW-3-209' (SM)	3/8/11	8015/8021	<5.0	<0.050	<0.050	<0.050	<0.050	<0.10
trip blank		8015/8021	<5.0	<0.050	<0.050	<0.050	<0.10	<0.10
trip blank		8015/8021	<5.0	<0.050	<0.050	<0.050	<0.10	<0.10

SITE NAME:	<i>Target Gas #7/Allsup #320</i>
SITE LOCATION:	<i>2021 N Prince St, Clovis, New Mexico</i>
SITE ID:	<i>3585</i>
FACILITY ID:	<i>5291011/31013</i>
SUBMITTAL DATE:	<i>May 14, 2001</i>
PREPARED BY:	<i>NSYNC Environmental</i>
REVIEWED BY:	<i>Shelda Sutton-Mendoza</i>

**Risk-Based Decision
 Making For Petroleum
 Releases At
 Underground Storage
 Tank Sites
 In New Mexico**

14 Day Report Forms

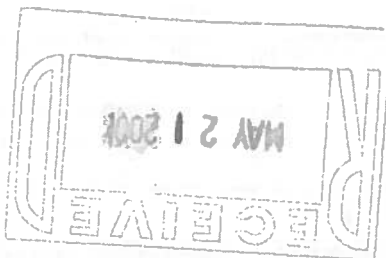


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Check the box against the item, if the item is included.

Form No.	Description	14 DAY REPORT FORMS
1.	Executive summary.	<input checked="" type="checkbox"/>
2.	Chronology of events.	<input checked="" type="checkbox"/>
3.	Facility information.	<input checked="" type="checkbox"/>
4.	Underground storage tank system description.	<input checked="" type="checkbox"/>
5.	Release confirmation.	<input checked="" type="checkbox"/>
6.	Site description.	<input checked="" type="checkbox"/>
7.	Land use.	<input checked="" type="checkbox"/>
8.	Groundwater use.	<input checked="" type="checkbox"/>
9.	Surface water use.	<input checked="" type="checkbox"/>
10.	Conclusions and recommendations.	<input checked="" type="checkbox"/>
11.	References and protocols.	<input checked="" type="checkbox"/>

NEW MEXICO RBDM

14 DAY REPORT

FORM NO. 3

SITE ID: 3585

FACILITY ID: 5291011/31013

SUBMITTAL DATE: 14-May-01

PREPARED BY: NSYNC Environmental

FACILITY INFORMATION

Facility name:

Target Gas #7/ Allsup #320

Facility address:

2021 N. Prince

Facility phone number:

Clovis, New Mexico
(505) 762-9633

UST system owner:

Allsup Petroleum Inc.

UST system owner's address:

P.O. Box 1907

UST system owner's phone number:

Clovis, New Mexico
(505) 769-2311

UST system operator:

Allsup Petroleum

UST system operator's address:

P.O. Box 1907

Clovis, New Mexico 88102

UST system operator's phone number:

(505) 769-2311

Property owner:

Lonnie Allsup

Property owner's address:

P.O. Box 1907

Clovis, New Mexico 88102

Property owner's phone number:

(505) 769-2311

REPORT PREPARED BY

I certify that the New Mexico RBDM evaluation as stated in this report was prepared under my supervision. I am experienced in the concepts and procedures of risk assessment and risk management as they relate to the New Mexico RBDM evaluation.

CAF Certified Scientist (Signature)

Sheila Sutton-Mendoza 281

Printed Name and Certified Scientist Number

Date

5-14-01

NSYNC Environmental 899-2960

Company Name and Telephone Number

ADDITIONAL NOTES

SITE ID: 3585 FACILITY ID: 5291011/31013

SUBMITTAL DATE: 14-May-01 PREPARED BY: NSYNC Environmental

GROUNDWATER USE

CURRENT		FUTURE	
Well head protection area:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Well head protection area:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Potable domestic water use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potable domestic water use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Non-potable water use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Non-potable water use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Public/municipal supply:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Public/municipal supply:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Industrial supply:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Industrial supply:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Agriculture:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Agriculture:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Other (explain in Notes):	<input type="checkbox"/> Yes <input type="checkbox"/> No	Other (explain in Notes):	<input type="checkbox"/> Yes <input type="checkbox"/> No

NOTES (JUSTIFY CHOICE FOR FUTURE USE)

New Mexico-American Water Company does not anticipate installing additional wells within 1,000 feet of site.

DETAILS OF GROUNDWATER USE WELLS WITHIN ONE MILE RADIUS OF THE SITE

(If available, attach well construction details. Use additional pages if necessary.)

Well number/designation	Well owner	Year constructed	Year plugged and abandoned	Specify water use: (if applicable)	Currently in use (Yes/No):	Total depth (ft bgs)	Depth of pump (ft bgs)	Static water level (ft bgs)	Pumping rate (gpm)	Uppermost screened interval (ft bgs)	Distance from the site (ft)	Direction from the site:
Well no. 1	NMAW Co	1939		Municipal	Y	368	3	3	3	3	4000	SW
Well no. 2	NMAW Co	1957		Municipal	Y	404	380	NA	455	286-386	3600	SE
Well no. 3	NMAW Co	1947		Municipal	Y	361	349	N	92	311-361	3600	SW
Well no. 4	NMAW Co	1947		Municipal	Y	351	346	2	360	302-351	4500	W
Well no. 5	NMAW Co	1949		Municipal	Y	371	356	304	317	287-371	2700	W

RECEPTOR SURVEY

Nearest downgradient municipal supply well: #16
 Nearest downgradient domestic supply well: > 1 mile
 Nearest point of exposure (current or potential) for groundwater ingestion: #10 2700' west

ADDITIONAL NOTES

see map of municipal wells

SITE ID: 3585 FACILITY ID: 5291011/31013

SUBMITTAL DATE: 14-May-01 PREPARED BY: NSYNC Environmental

SURFACE WATER USE WITHIN 500 FOOT RADIUS OF THE SITE

CURRENT		FUTURE	
Potable domestic water use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potable domestic water use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Non-potable water use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Non-potable water use:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Public/municipal supply:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Public/municipal supply:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Industrial supply:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Industrial supply:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Agriculture:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Agriculture:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Other (explain in Notes):	<input type="checkbox"/> Yes <input type="checkbox"/> No	Other (explain in Notes):	<input type="checkbox"/> Yes <input type="checkbox"/> No

NOTES (JUSTIFY CHOICE FOR FUTURE USE)

(Empty space for notes)

ECOLOGICAL RECEPTORS AND HABITATS

1. Are there any ecological receptors or habitats present within a 500 ft radius from the facility?
 Yes No
2. Is there a complete pathway at the site for an ecological impact beyond what is considered under the surface water impacts evaluation?
 Yes No
3. Are there visible indications of stressed receptors or habitats on or near the site that may be a result of a chemical release?
 Yes No
4. Other (explain in Notes):
 Yes No

ADDITIONAL NOTES

If the answer to questions 2 & 3 is Yes, contact NMED before proceeding any further.

(Empty space for additional notes)

A properly calibrated Mini Rae PID and a Bachrach Model 100 Explosimeter were utilized to screen utility corridors at the site. All accessible utility corridors (water and sewer) were examined and checked for the presence of explosive hydrocarbon vapors; no vapors were observed above ambient outside levels. There are no harmful or explosive vapors on the property and there are no fire or safety hazards. Figure 3 depicts the vapor sampling locations and results.

No surface watercourses are located within one-half mile of the site. Based on a review of the records at the State Engineer's Office and discussion with New Mexico American Water Company, there are six active municipal water supply wells located within 1 mile of the site and there are no private wells located with 1,000 feet of the site. The municipal wells were installed prior to the area being declared a basin; therefore, there are no available wells logs at the State Engineer's Office.

TANK NO.	TANK DIAMETER (IN)	LENGTH (FT)	VOLUME (GAL)	TYPE	FUEL LEVEL (IN)	FUEL TYPE	dvOL/dy (GAL/IN)	CALIBRATION ROD	DISTANCE
1	96	21.28	8000	ST	43.37	REG UNLD	105.60	1	10.65625
2	96	21.28	8000	ST	46.37	REG UNLD	106.04	2	26.95313
3	96	21.28	8000	ST	33.12	SUP UNLD	100.87	3	41.93750
								4	56.93750
								5	74.93750

***** TANK DATA *****

ATLSUP'S #320
 2021 N. PRINCE ST.
 CLOVIS, NEW MEXICO

PRECISION TANK TIGHTNESS TEST LOG

Tank Information

Tank Number	Description	Fuel Type	Diameter (in)	Capacity (gal)	Fuel Level (in)	Percent Full (%)
1	REG UNLD EAS	Gasoline-Low	96	8000	N/A	N/A
2	REG UNLD CEN	Gasoline-Low	96	8000	N/A	N/A
3	SUP UNLD	Gasoline-Hi	96	8000	N/A	N/A

Precision Test Results

Start Date	Start Time	Duration	Temp Rate (F/hr)	Threshold (gal/hr)	Leak Rate (gal/hr)	Pass/Fail
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Ullage Test Results

Test Date	Test Time	Pass/Fail
12/11/00	22:49:26	Passed
12/11/00	22:56:25	Passed
12/11/00	23:03:19	Passed

Operator: DUDLEY SANTANA Signature: _____ Date: 12/11/00

LINE AND LEAK DETECTOR TESTS

LINE NUMBER	PRODUCT	LINE	LEAK DETECTOR
1			
2			
3			
4			

RTS

TANK AND LINE TESTING

4601 Comanche Rd. NE • Albuquerque, New Mexico 87110 • Ph: (505) 881-2384

Vicinity Map
 Target Gas #7
 Allisups # 320
 2021 N. Prince, Clovis, N.M.

Drawn by: SSM	5/01	Client: Allisups
Drafted by: ABL	5/01	NSYNC Environmental
Approved by: SSM	5/01	Figure 1

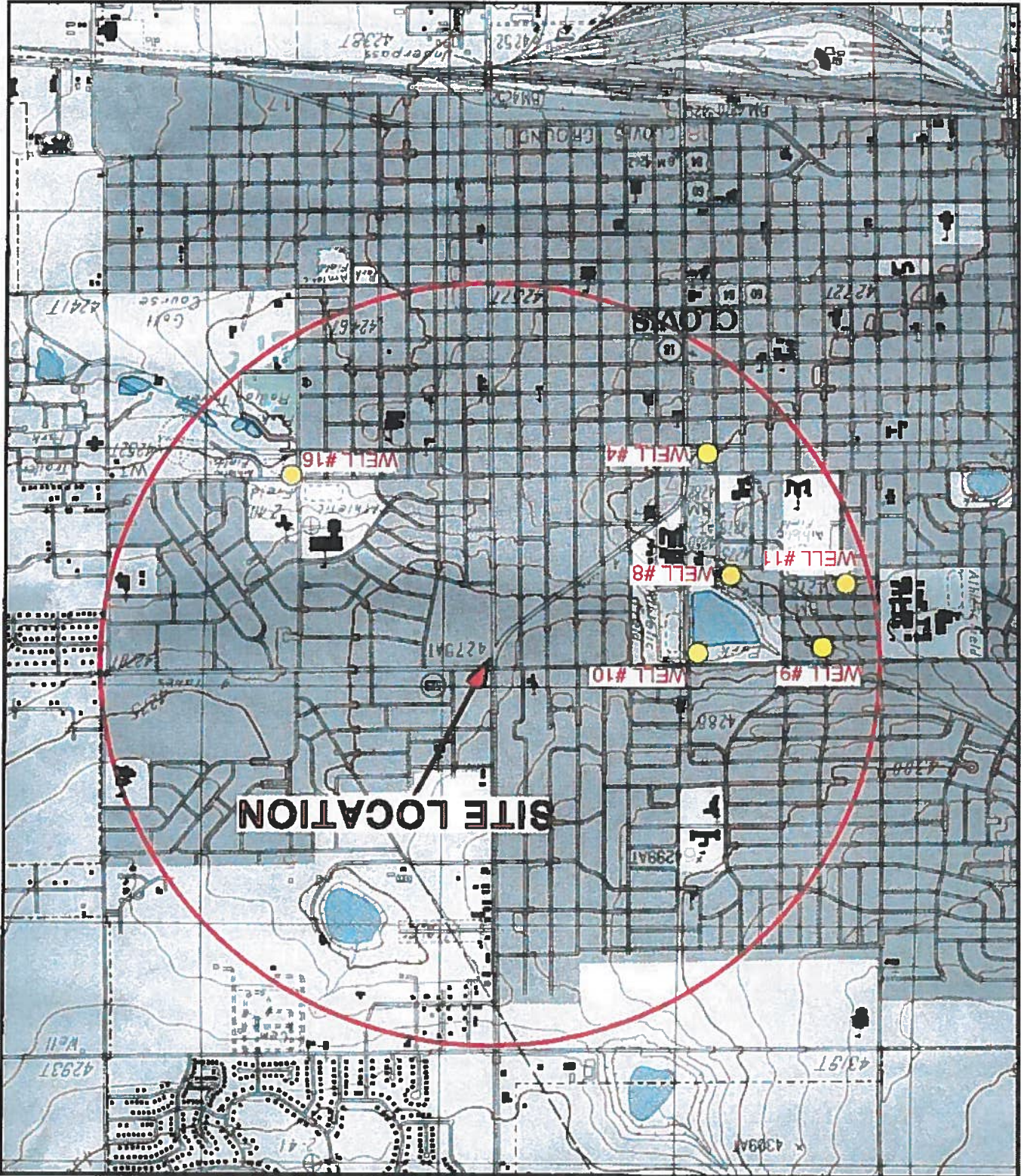
EXPLANATION:

- Location Of Municipal Water Supply Well






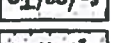
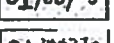
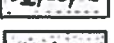



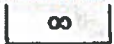



Topographic Data Compiled from USGS
 Clovis, N.M. 1985
 7.5 Minute Quadrangle

Scale 1:24,000

QUADRANGLE LOCATION



EXPLANATION:

-  Open Pits for road fill, sand, gravel, caliche, or other aggregates
-  Disturbed ground-mostly urban areas
-  Sandy Lake or Playa Deposits
-  Silty Lake or Playa Deposits
-  Loose Sand in Mounds
-  Thin Sand on Caliche on Ogallala Formation
-  Moderately Thick Sand on Caliche on Ogallala Formation
-  Thick Sand on Caliche on Ogallala Formation
-  Sand Facies
-  Gravel Facies
-  Floodplain and channel Deposits along Generally Dry Arroyos and Washes
-  Floodplain and channel Deposits along Main Streams
-  Colluvium
-  Sandy or Sandy Loam Residuum
-  Loamy Residuum-mixed clay, silt, and sand

Description of Map Units

Geologic Map

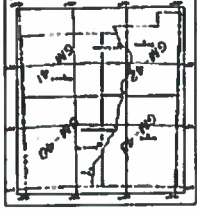
Target Gas #7
Allsups #320
2021 North Prince Street
Clovis, New Mexico

NSYNC Environmental
6116 Flor de Mayo NW
Albuquerque, N.M. 87120
(505) 899-2900 Fax 792-8398

Figure 3

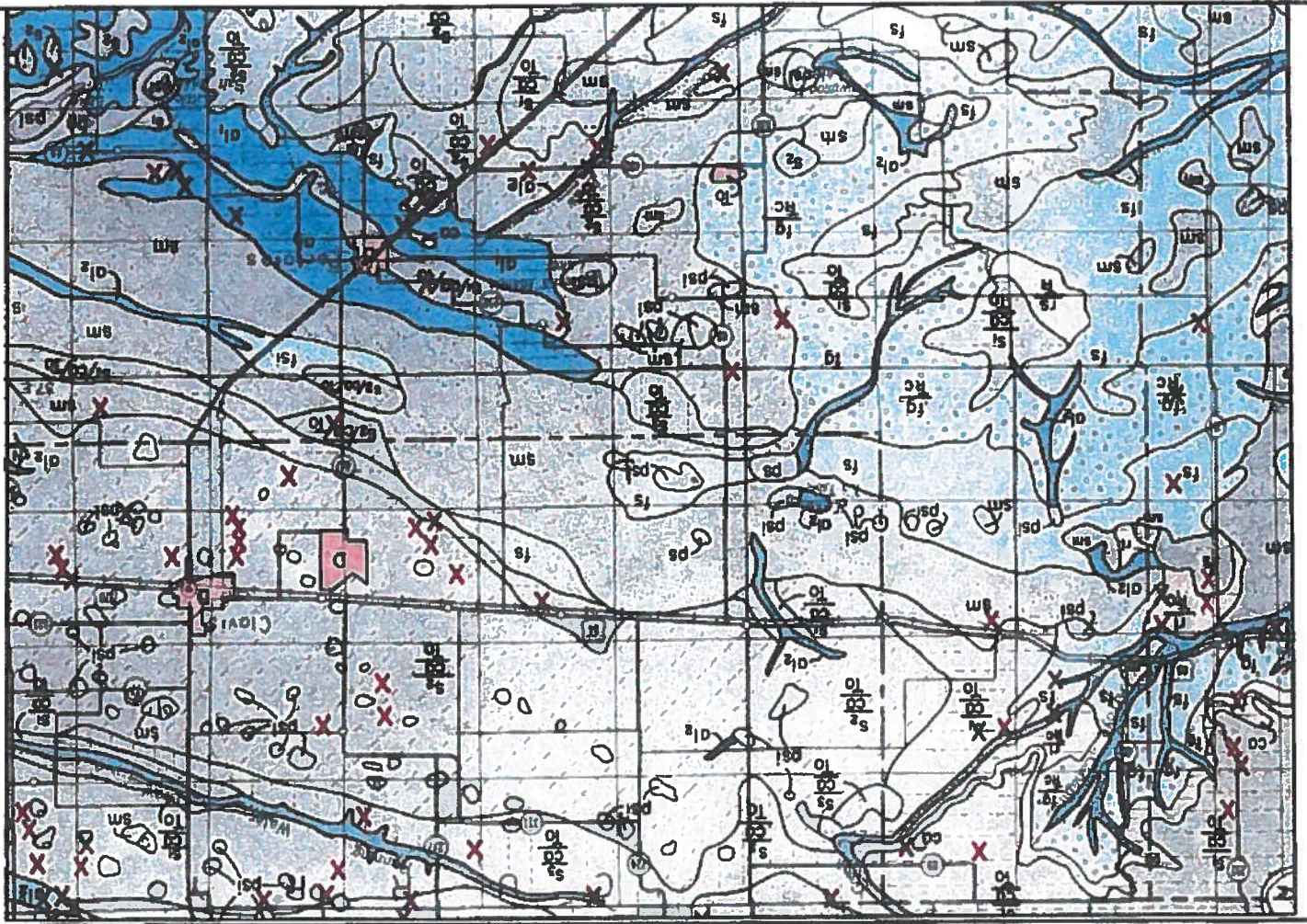
Approved by: SSM 5/01
Drafted by: ABL 5/01
Drawn by: SSM 5/01

Index Map of New Mexico
Surficial Geology of Northeast New Mexico
by New Mexico Bureau of Mines and
Mineral Resources and Charles B. Hunt,
1977



Scale 1:500,000
1 inch = approximately 8 miles

50 Miles / 50 Kilometers



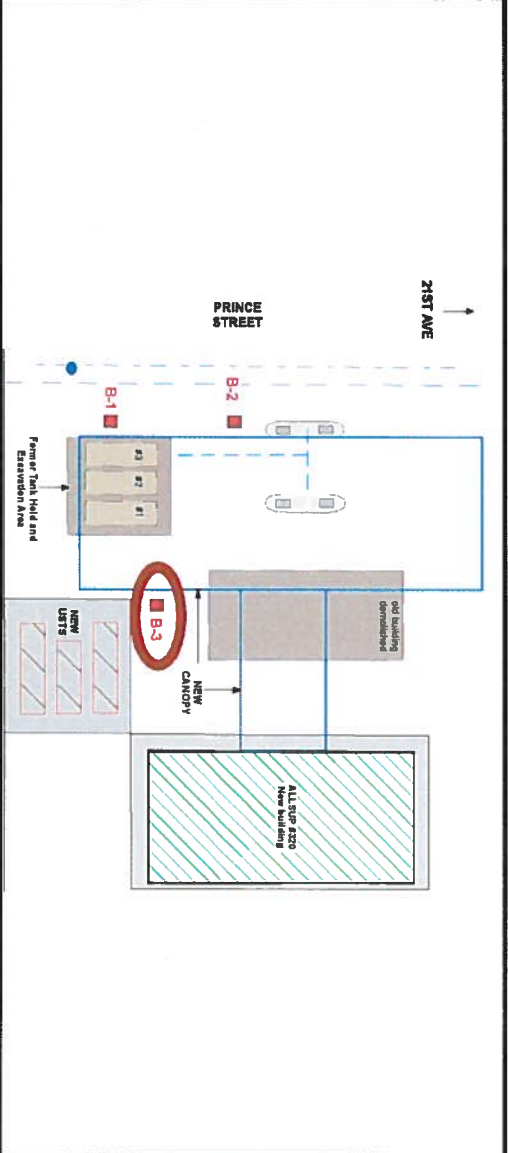
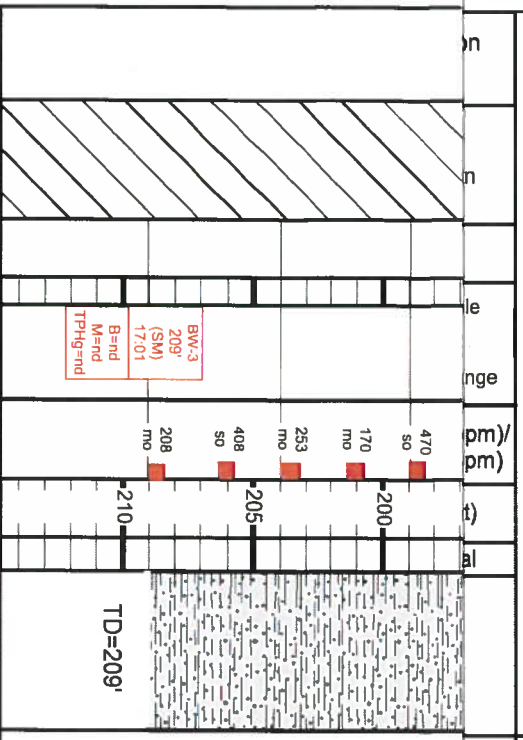
ALLSUPS #320

CLIENT: Allsup's Petroleum, Inc.

Borehole ID: B-3

page 3 of 3

DATE OF DRILLING: 3/7/11-3/8/11
 LOGGED BY: WJB
 DRILLER: Matt Cain/WDC
 BOREHOLE DIAMETER: 7 3/4" Nominal
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: 5' X 3" Dia. Core Barrel
 TOP OF CASING ELEV.: NA
 DEPTH TO WATER: ~320'
 TOTAL DEPTH: 209'
 CASING: NA
 SCREEN: NA
 SURFACE COMPLETION: Concrete Patch



USCS - LITHOLOGIC DESCRIPTION



BROWN ENVIRONMENTAL, INC

6739 ACADEMY ROAD, NE SUITE 254, ALBUQUERQUE, NEW MEXICO 87109
 PHONE: (505) 858-1818 FAX: (505) 858-0707

Date of Receipt: 3-12-11

Time of Receipt: 9:00

AM

Cell Placement: 25T. #6

Quantity: 20

T/CY: YARDS

Description: DIESEL CONTAMINATED SOIL

SB # 4

Name/Address of Generator: THUSUPS 320 CLOVIS, NM BROWN ENVIRONMENTAL CO.

Origin of Materials (if different): DIXON OIL SERVICE STATION - ELIDA, NM

Transporter Name: R. MARLEY

M-26

SCC ID No. 6108

Name of Laboratory Performing Sample Analysis:

TCLP (EPA Method 1311) BTEX MTBE TPH Non-Hazardous Exempt

Verification of No Free Liquids

Paint Filter Liquids Test Performed

Verification of Property Completed Manifest

Generator Manifest Number 14402-6108

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: DAVID MILES

Print Name

Signature

GMI Employee: J. TOLTON

Print Name

Signature



COVER LETTER

Monday, February 07, 2011

Bill Brown

Brown Environmental Inc.

6739 Academy Road NE Suite 254

Albuquerque, NM 87109

TEL: (505) 858-1818

FAX (505) 858-0707

RE: Allsup 320

Dear Bill Brown:

Order No.: 1101826

Hall Environmental Analysis Laboratory, Inc. received 12 sample(s) on 1/26/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682

ORELAP Lab # NM10001

Texas Lab# T104704424-08-TX

Bill Brown



Hall Environmental Analysis Laboratory, Inc.

Date: 07-Feb-11

CLIENT: Brown Environmental Inc. Client Sample ID: Tank #1 South 13'

Lab Order: 1101826 Collection Date: 1/25/2011 2:53:00 PM

Project: Allsup's 320 Date Received: 1/26/2011

Lab ID: 1101826-02 Matrix: MEOH (SOIL)

Analyses

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/3/2011 2:57:02 PM
Surr: BFB	99.4	89.7-125	%REC	1	2/3/2011 2:57:02 PM
Analyst: NSB					

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	2/3/2011 2:57:02 PM
Benzene	ND	0.050	mg/Kg	1	2/3/2011 2:57:02 PM
Toluene	ND	0.050	mg/Kg	1	2/3/2011 2:57:02 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/3/2011 2:57:02 PM
Xylenes, Total	ND	0.10	mg/Kg	1	2/3/2011 2:57:02 PM
Surr: 4-Bromofluorobenzene	115	88.9-151	%REC	1	2/3/2011 2:57:02 PM
Analyst: NSB					

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated Value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Feb-11

CLIENT: Brown Environmental Inc.

Client Sample ID: Tank #1 North 15'

Lab Order: 1101826

Collection Date: 1/25/2011 3:32:00 PM

Project: Allsup's 320

Date Received: 1/26/2011

Lab ID: 1101826-04

Matrix: MEOH (SOIL)

Analyses	Result	PQL Qual Units	DF	Date Analyzed
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EPA METHOD 8015B: GASOLINE RANGE

Analyst: NSB

Gasoline Range Organics (GRO)	2770	250	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C05-C6	0.500	0	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C06-C7	2.40	0	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C07-C8	11.9	0	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C08-C9	28.2	0	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C09-C10	27.9	0	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C10-C11	22.5	0	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C11-C12	4.90	0	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C12-C14	1.60	0	mg/kg	2/3/2011 3:57:21 PM
% GRO Hydrocarbons: C14+	0.100	0	mg/kg	2/3/2011 3:57:21 PM
Surf: BFB	105	89.7-125	%REC	2/3/2011 3:57:21 PM

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Methyl tert-butyl ether (MTBE)	ND	5.0	mg/kg	2/3/2011 3:57:21 PM
Benzene	4.5	2.5	mg/kg	2/3/2011 3:57:21 PM
Toluene	85	2.5	mg/kg	2/3/2011 3:57:21 PM
Ethylbenzene	46	2.5	mg/kg	2/3/2011 3:57:21 PM
Xylenes, Total	470	5.0	mg/kg	2/3/2011 3:57:21 PM
Surf: 4-Bromofluorobenzene	105	88.9-151	%REC	2/3/2011 3:57:21 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
NC	Non-Chlorinated
PQL	Practical Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Feb-11

CLIENT: Brown Environmental Inc. Client Sample ID: Product Line #1 4'

Lab Order: 1101826 Collection Date: 1/25/2011 4:02:00 PM

Project: Allsup's 320 Date Received: 1/26/2011

Lab ID: 1101826-06 Matrix: MEOH (SOIL)

Analyses

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE	ND	5.0	mg/Kg	1	2/3/2011 7:27:39 PM
Gasoline Range Organics (GRO)	97.1	89.7-125	%REC	1	2/3/2011 7:27:39 PM
Analyst: NSB					

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES	ND	0.10	mg/Kg	1	2/3/2011 7:27:39 PM
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	2/3/2011 7:27:39 PM
Benzene	ND	0.050	mg/Kg	1	2/3/2011 7:27:39 PM
Toluene	ND	0.050	mg/Kg	1	2/3/2011 7:27:39 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/3/2011 7:27:39 PM
Xylenes, Total	ND	0.10	mg/Kg	1	2/3/2011 7:27:39 PM
Surr: 4-Bromofluorobenzene	111	88.9-151	%REC	1	2/3/2011 7:27:39 PM
Analyst: NSB					

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Feb-11

CLIENT: Brown Environmental Inc.
 Client Sample ID: NW Dispenser 3'
 Lab Order: 1101826
 Project: Allsup's 320
 Lab ID: 1101826-08
 Date Received: 1/26/2011
 Matrix: MEOH (SOIL)

Analyses

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE	ND	5.0	mg/kg	1	2/4/2011 1:57:58 AM
Gasoline Range Organics (GRO)	93.6	89.7-125	%REC	1	2/4/2011 1:57:58 AM
Surr: BFB					

Analyst: NSB

EPA METHOD 8021B: VOLATILES

Methyl tert-butyl ether (MTBE)	ND	0.10	mg/kg	1	2/4/2011 1:57:58 AM
Benzene	ND	0.050	mg/kg	1	2/4/2011 1:57:58 AM
Toluene	ND	0.050	mg/kg	1	2/4/2011 1:57:58 AM
Ethylbenzene	ND	0.050	mg/kg	1	2/4/2011 1:57:58 AM
Xylenes, Total	ND	0.10	mg/kg	1	2/4/2011 1:57:58 AM
Surr: 4-Bromofluorobenzene	111	88.9-151	%REC	1	2/4/2011 1:57:58 AM

Analyst: NSB

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Feb-11

Client Sample ID: SE Dispenser 3

Brown Environmental Inc.

Collection Date: 1/25/2011 4:30:00 PM

Lab Order: 1101826

Date Received: 1/26/2011

Project: Allsup 320

Matrix: MEOH (SOIL)

Lab ID: 1101826-10

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
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EPA METHOD 8015B: GASOLINE RANGE

Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/4/2011 2:57:58 AM
Surr: BFB	96.4	89.7-125	%REC	1	2/4/2011 2:57:58 AM

EPA METHOD 8021B: VOLATILES

Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	2/4/2011 2:57:58 AM
Benzene	ND	0.050	mg/Kg	1	2/4/2011 2:57:58 AM
Toluene	ND	0.050	mg/Kg	1	2/4/2011 2:57:58 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/4/2011 2:57:58 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/4/2011 2:57:58 AM
Surr: 4-Bromofluorobenzene	115	88.9-151	%REC	1	2/4/2011 2:57:58 AM

Analyst: NSB

Analyst: NSB

Qualifiers:
 * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Feb-11

CLIENT: Brown Environmental Inc.

Client Sample ID: MeOH Blank

Lab Order: 1101826

Collection Date:

Project: Allisups 320

Date Received: 1/26/2011

Lab ID: 1101826-12

Matrix: MeOH BLANK

Analyses

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE Gasoline Range Organics (GRO)	ND	5.0	mg/kg	1	2/4/2011 3:57:58 AM
Surr: BFB	100	89.7-125	%REC	1	2/4/2011 3:57:58 AM

Analyst: NSB

EPA METHOD 8021B: VOLATILES

Methyl tert-butyl ether (MTBE)	ND	0.10	mg/kg	1	2/4/2011 3:57:58 AM
Benzene	ND	0.050	mg/kg	1	2/4/2011 3:57:58 AM
Toluene	ND	0.050	mg/kg	1	2/4/2011 3:57:58 AM
Ethylbenzene	ND	0.050	mg/kg	1	2/4/2011 3:57:58 AM
Xylenes, Total	ND	0.10	mg/kg	1	2/4/2011 3:57:58 AM
Surr: 4-Bromofluorobenzene	119	88.9-151	%REC	1	2/4/2011 3:57:58 AM

Analyst: NSB

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Sample Receipt Checklist

1/26/2011

Date Received:

LNM

Received by:

Sample ID labels checked by:

[Signature]

Checklist completed by:

[Signature]
Date: 1/26/11

Work Order Number 1101826

Client Name BROWN ENV

Matrix:

Carrier name: Client drop-off

Shipping container/coolers in good condition? Yes No

Custody seals intact on shipping container/coolers? Yes No

Not Shipped

Custody seals intact on sample bottles? Yes No

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Water - VOA vials have zero headspace? No VOA vials submitted Yes

Water - Preservation labels on bottle and cap match? Yes No

Water - pH acceptable upon receipt? Yes No

Container/Temp Blank temperature? Yes No

COMMENTS:

Number of preserved bottles checked for pH: No N/A N/A
 > 2 > 12 unless noted below.

<6° C Acceptable if given sufficient time to cool.

2.2°

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____

Regarding: _____

Comments: _____

Tank #2 South 13' no field extraction, mesh vials were not filled! doing lab extraction 1/28/11

[Handwritten note:] Bill Paul (ALB) AND MERRILL US THAT THE LEFT TANK #3 SOUTH @ 13' OFF OF THE OIL BY MISTAKE. I ADDED IT IN FOR HIM.

Corrective Action

[Signature]
1/26/11



COVER LETTER

Friday, March 25, 2011

Bill Brown

Brown Environmental Inc.
6739 Academy Road NE Suite 254
Albuquerque, NM 87109

TEL: (505) 858-1818

FAX (505) 858-0707

RE: Allsup #320

Dear Bill Brown:

Hall Environmental Analysis Laboratory, Inc. received 11 sample(s) on 3/14/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682

ORELAP Lab # NM10001

Texas Lab# T104704424-08-TX

Bill Brown



Hall Environmental Analysis Laboratory, Inc.

Date: 25-Mar-11

CLIENT: Brown Environmental Inc.
 Client Sample ID: B-1-63' (SM)
 Tag Number:
 Collection Date: 3/6/2011 2:35:00 PM
 Matrix: MEOH (SOIL)
 Lab Order: 1103535
 Project: Allsup's #320
 Lab ID: 1103535-02A
 Date Received: 3/14/2011

Analyses

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE					
Gasoline Range Organics (GRO)	ND	5.0	mg/kg	1	3/18/2011 2:49:19 AM
Surr: BFB	98.6	89.7-125	%REC	1	3/18/2011 2:49:19 AM
EPA METHOD 8021B: VOLATILES					
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/kg	1	3/18/2011 2:49:19 AM
Benzene	ND	0.050	mg/kg	1	3/18/2011 2:49:19 AM
Toluene	ND	0.050	mg/kg	1	3/18/2011 2:49:19 AM
Ethylbenzene	ND	0.050	mg/kg	1	3/18/2011 2:49:19 AM
Xylenes, Total	ND	0.10	mg/kg	1	3/18/2011 2:49:19 AM
Surr: 4-Bromofluorobenzene	111	85.3-139	%REC	1	3/18/2011 2:49:19 AM

Analyst: DAM

Analyst: DAM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 25-Mar-11

CLIENT: Brown Environmental Inc.
 Client Sample ID: B-2-69' (SM)
 Lab Order: 1103535
 Project: Allsup #320
 Lab ID: 1103535-04A
 Date Received: 3/14/2011
 Matrix: MEOH (SOIL)
 Collection Date: 3/7/2011 11:50:00 AM

Analyses

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE					
Gasoline Range Organics (GRO)	ND	5.0	mg/kg	1	3/19/2011 1:10:31 AM
Surr: BFB	102	89.7-125	%REC	1	3/19/2011 1:10:31 AM
EPA METHOD 8021B: VOLATILES					
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/kg	1	3/19/2011 1:10:31 AM
Benzene	ND	0.050	mg/kg	1	3/19/2011 1:10:31 AM
Toluene	ND	0.050	mg/kg	1	3/19/2011 1:10:31 AM
Ethylbenzene	ND	0.050	mg/kg	1	3/19/2011 1:10:31 AM
Xylenes, Total	ND	0.10	mg/kg	1	3/19/2011 1:10:31 AM
Surr: 4-Bromofluorobenzene	108	85.3-139	%REC	1	3/19/2011 1:10:31 AM

Analyst: DAM

Analyst: DAM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 25-Mar-11

Client Sample ID: B-3-73-74' (SM)

Brown Environmental Inc.

CLIENT:

Tag Number:

1103535

Lab Order:

Collection Date: 3/7/2011 4:15:00 PM

Allsup #320

Project:

Matrix: MEOH (SOIL)

Date Received: 3/14/2011

1103535-06A

Lab ID:

Date Analyzed

PQL Qual Units

Result

Analyses

Analyst: DAM

EPA METHOD 8015B: GASOLINE RANGE

DF	Date Analyzed	mg/Kg	%REC
1	3/19/2011 2:10:33 AM	5.0	89.7-125
1	3/19/2011 2:10:33 AM		

Gasoline Range Organics (GRO)

Surf: BFB

EPA METHOD 8021B: VOLATILES

DF	Date Analyzed	mg/Kg	%REC
1	3/19/2011 2:10:33 AM	0.10	85.3-139
1	3/19/2011 2:10:33 AM		
1	3/19/2011 2:10:33 AM		
1	3/19/2011 2:10:33 AM		
1	3/19/2011 2:10:33 AM		
1	3/19/2011 2:10:33 AM		
1	3/19/2011 2:10:33 AM		

Methyl tert-butyl ether (MTBE)

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surf: 4-Bromofluorobenzene

111	3/19/2011 2:10:33 AM	1.12	85.3-139
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Qualifiers:			
*	Value exceeds Maximum Contaminant Level		
E	Estimated value		
J	Analyte detected below quantitation limits		
NC	Non-Chlorinated		
PQL	Practical Quantitation Limit		
B	Analyte detected in the associated Method Blank		
H	Holding times for preparation or analysis exceeded		
MCL	Maximum Contaminant Level		
ND	Not Detected at the Reporting Limit		
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: 25-Mar-11

CLIENT: Brown Environmental Inc.
 Client Sample ID: B-3-159 (SM)
 Tag Number:
 Collection Date: 3/8/2011 10:10:00 AM
 Matrix: MEOH (SOIL)
 Lab Order: 1103535
 Project: Allsup's #320
 Lab ID: 1103535-08A
 Date Received: 3/14/2011

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/19/2011 12:58:11 PM
Surr: BFB	101	89.7-125	%REC	1	3/19/2011 12:58:11 PM
EPA METHOD 8021B: VOLATILES					
Methyl tert-butyl ether (MTBE)	0.10	0.10	mg/Kg	1	3/19/2011 12:58:11 PM
Benzene	ND	0.050	mg/Kg	1	3/19/2011 12:58:11 PM
Toluene	ND	0.050	mg/Kg	1	3/19/2011 12:58:11 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/19/2011 12:58:11 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/19/2011 12:58:11 PM
Surr: 4-Bromofluorobenzene	114	85.3-139	%REC	1	3/19/2011 12:58:11 PM

Analyst: NSB

Analyst: NSB

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 25-Mar-11

CLIENT: Brown Environmental Inc.
 Lab Order: 1103535
 Project: Allsup #320
 Lab ID: 1103535-10A
 Date Received: 3/14/2011
 Client Sample ID: B-3-209 (SM)
 Tag Number:
 Collection Date: 3/8/2011 5:01:00 PM
 Matrix: MEOH (SOIL)

Analyses

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE					
Gasoline Range Organics (GRO)	ND	5.0	mg/kg	1	3/19/2011 1:58:24 PM
Surr: BFB	101	89.7-125	%REC	1	3/19/2011 1:58:24 PM
EPA METHOD 8021B: VOLATILES					
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/kg	1	3/19/2011 1:58:24 PM
Benzene	ND	0.050	mg/kg	1	3/19/2011 1:58:24 PM
Toluene	ND	0.050	mg/kg	1	3/19/2011 1:58:24 PM
Ethylbenzene	ND	0.050	mg/kg	1	3/19/2011 1:58:24 PM
Xylenes, Total	ND	0.10	mg/kg	1	3/19/2011 1:58:24 PM
Surr: 4-Bromofluorobenzene	114	85.3-139	%REC	1	3/19/2011 1:58:24 PM

Analyst: NSB

Analyst: NSB

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Brown Environmental Inc.
 Project: Allsup #320

Work Order: 1103535

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8015B: Gasoline Range
 Sample ID: MB-26025
 Gasoline Range Organics (GRO) ND 5.0
 Batch ID: 26025 Analysis Date: 3/19/2011 6:59:09 PM

Method: EPA Method 8021B: Volatiles
 Sample ID: MB-26025
 Gasoline Range Organics (GRO) 27.46 mg/kg
 Batch ID: 26025 Analysis Date: 3/19/2011 5:58:49 PM

Method: EPA Method 8021B: Volatiles
 Sample ID: MB-26025
 Gasoline Range Organics (GRO) 27.46 mg/kg
 Batch ID: 26025 Analysis Date: 3/19/2011 6:59:09 PM

Method: EPA Method 8021B: Volatiles
 Sample ID: MB-26025
 Gasoline Range Organics (GRO) 27.46 mg/kg
 Batch ID: 26025 Analysis Date: 3/19/2011 6:59:09 PM

Method: EPA Method 8021B: Volatiles
 Sample ID: LCS-26025
 Gasoline Range Organics (GRO) 27.46 mg/kg
 Batch ID: 26025 Analysis Date: 3/19/2011 6:28:54 PM

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	mg/kg	0.10								
Benzene	ND	mg/kg	0.050								
Toluene	ND	mg/kg	0.050								
Ethylbenzene	ND	mg/kg	0.050								
Xylenes, Total	ND	mg/kg	0.10								
Methyl tert-butyl ether (MTBE)	1.002	mg/kg	0.10	1	0	100	65.5	229			
Benzene	1.030	mg/kg	0.050	1	0	103	83.3	107			
Toluene	0.9984	mg/kg	0.050	1	0	99.8	74.3	115			
Ethylbenzene	1.080	mg/kg	0.050	1	0.0057	107	80.9	122			
Xylenes, Total	3.400	mg/kg	0.10	3	0	113	85.2	123			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

Chain-of-Custody Record

Client: Bevan Environmental Inc

Mailing Address: 6739 Kennedy Blvd, NE STE 254

14319 Wagon N M 87103

Phone #: 858-1818

email or Fax#: 858-0707

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:

MUSPS #320

Project #:

1025

Project Manager:

William Bevan

Sampler:

W. Bevan

On Ice: Yes No

Sample Temperature:

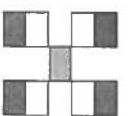
Container Type and #

2 MISTRA 1045

HEAL No. 1103535

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
6/11	13:20	SOIL	B-1-37 (GALICHE)			1
6/11	14:35		B-1-63 (SM)			2
7/11	11:05		B-2-40 (GALICHE)			3
7/11	11:50		B-2-69 (SM)			4
7/11	15:30		B-3-54 (SM)			5
7/11	16:15		B-3-73 (SM)			6
7/11	17:35		B-3-104 (SM)			7
8/11	10:10		B-3-159 (SA)			8
8/11	15:15		B-3-189 (SM)			9
8/11	17:01		B-3-209 (SM)			10
			MECH BLANK			

Analysis Request	Remarks
BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	X
TPH Method 8015B (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
8310 (PNA or PAH)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles (Y or N)	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

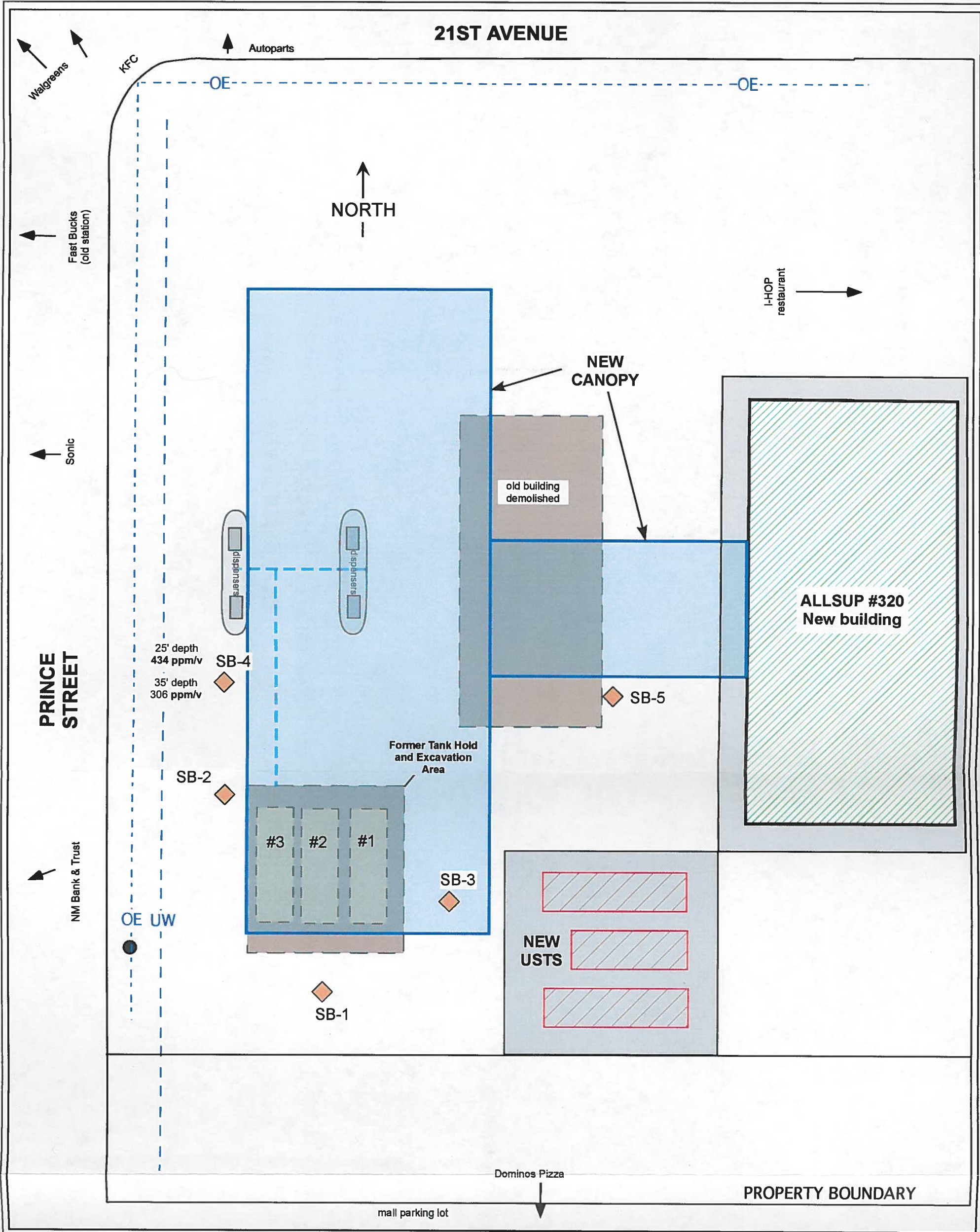
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Remarks:

PLEASE REVIEW ALL ANALYSES THANKS

Date: 7/11 Time: 1708 Relinquished by: [Signature]
 Date: 3/14/11 Time: 1708 Received by: [Signature]



EXPLANATION

SB-2 Former Soil Boring Location (Approximate) (NSync 1999)

Building

Concrete



NORTH

Data from NSync MSA Report 2001

SITE BASE MAP WITH FORMER 1999 DRILLING LOCATIONS

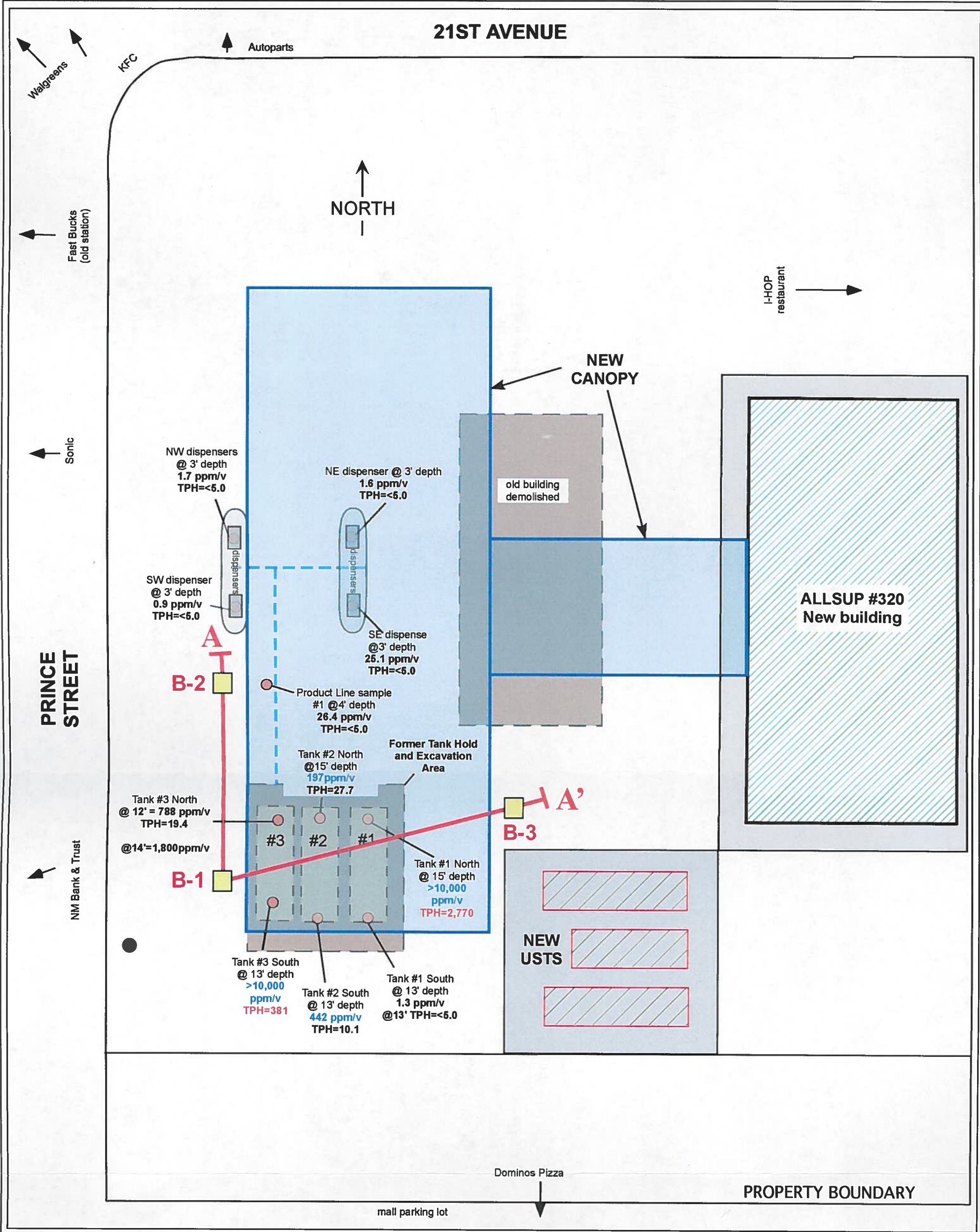
Allsup's Store #320
Clovis, New Mexico



BROWN ENVIRONMENTAL, INC.

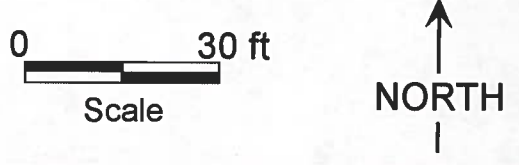
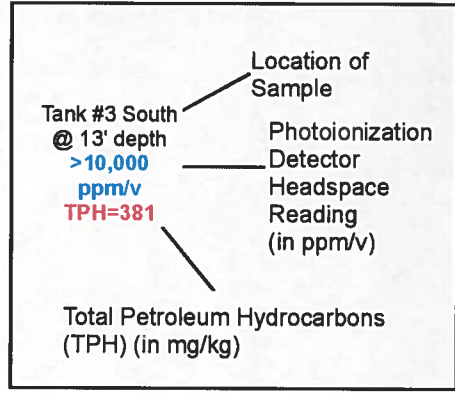
6739 Academy Road NE, NE., Suite 254
Albuquerque, NM 87109
Phone: (505) 858-1818 Fax: (505) 858-0707

Drawn by:	WJB	5/11	Client: Allsup's
Drafted by:	EMB	5/11	Job #1070
Reviewed by:	WJB	5/11	Figure: 2



EXPLANATION

- B-1** Soil Boring Location (3-11)
- Soil Sample Locations (1-11)
- Building
- Concrete



A — A'
Cross Section Location

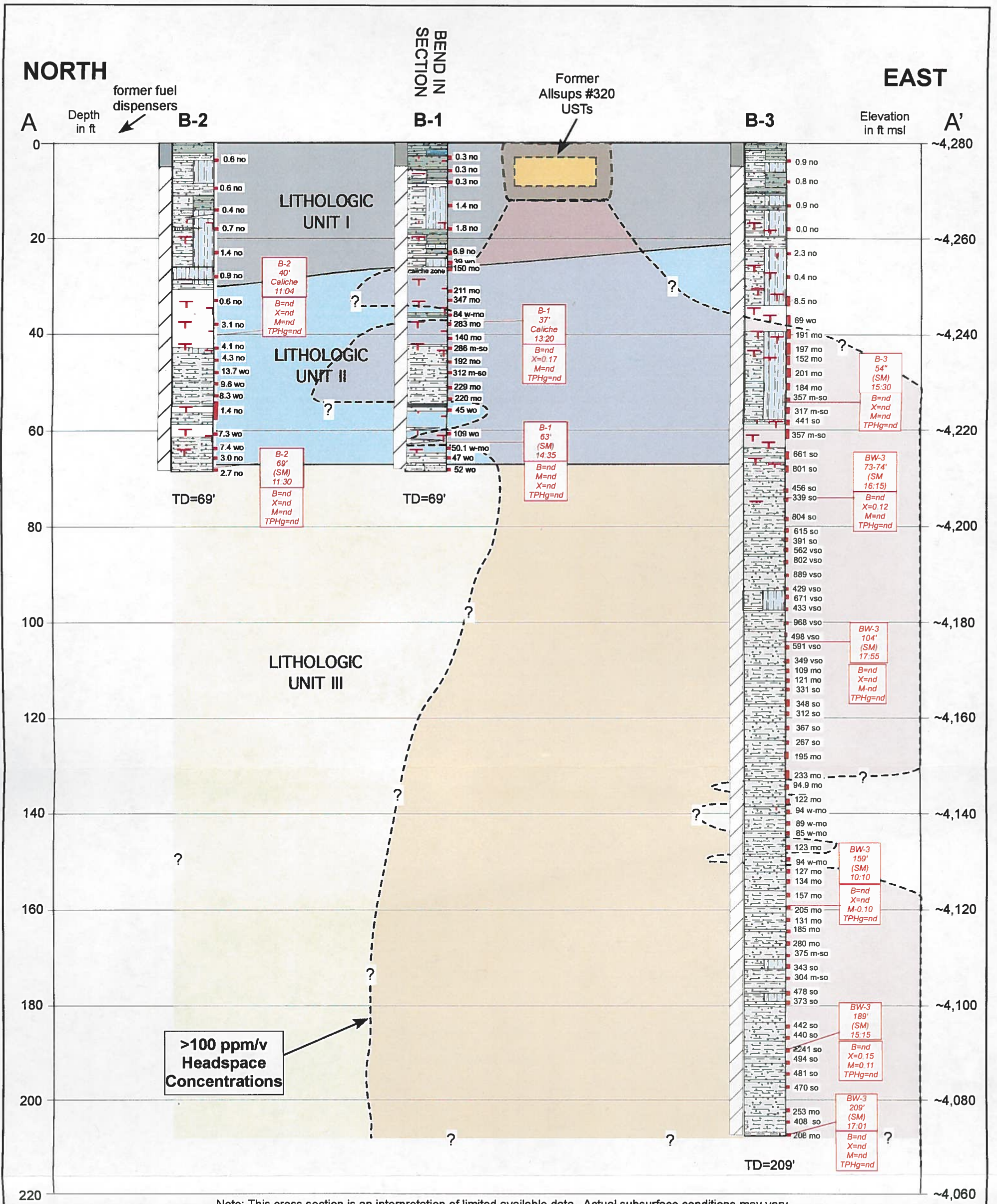
SITE BASE MAP WITH CROSS SECTION LOCATION, 1-11 TANK PULL CONFIRMATORY SOIL SAMPLE DATA, AND 3-11 BOREHOLE LOCATIONS

Allsup's Store #320
Clovis, New Mexico



BROWN ENVIRONMENTAL, INC.
6739 Academy Road NE, NE., Suite 25+
Albuquerque, NM 87109
Phone: (505) 858-1818 Fax: (505) 858-0707

Drawn by:	WJB	5/11	Client: Allsup's
Drafted by:	EMB	5/11	Job #1070
Reviewed by:	WJB	5/11	Figure: 3



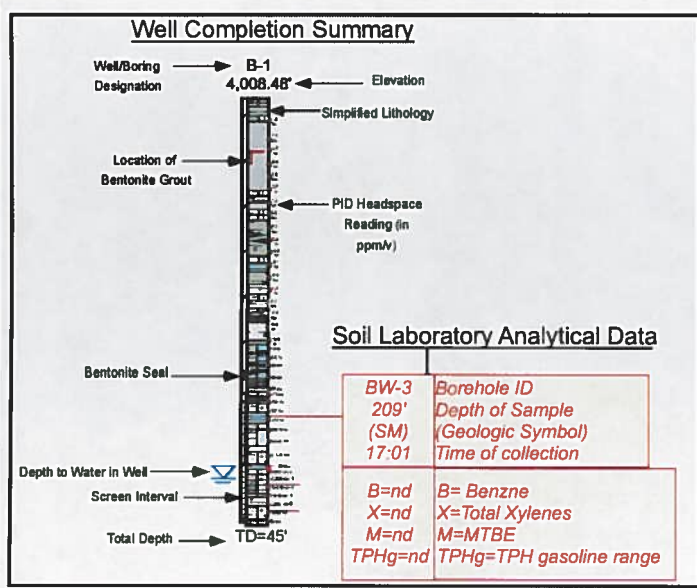
EXPLANATION

Lithology

SC	Clayey Sand
SCL	Sandy Clay
CL	Clay - plastic, dense
CH	Fat Clay - highly plastic
SW	Poorly Sorted Sand
SP	Well Sorted Sand
SM	Silty Sand
	Pedogenic Carbonate
GM	Silty Gravel
GC	Gravelly Silt
MSS	Mudstone-Siltstone - Chinle or Chinle derived
SAS	Sandstone - Chinle or Chinle derived

Soil Vapor Hydrocarbons

>100 ppm/v TIVC Headspace >100 ppm/v



SIMPLIFIED GEOLOGIC AND HYDROCARBON CONTAMINANT CROSS SECTION A-A'

ALLSUPS #320 FACILITY CLOVIS, NM

Drawn by:	WJB	5/11	Client: NMED
Drafted by:	EMB	5/11	Job #1070
Reviewed by:	WJB	5/11	Figure: 4

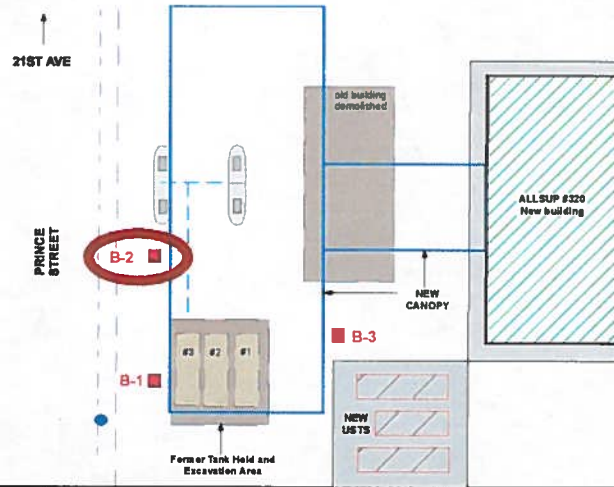
BROWN ENVIRONMENTAL, INC

8739 Academy Road NE, Suite 254
Albuquerque, New Mexico 87109
Phone: (505) 858-1818 Fax: 858-0707

ALLSUPS #320

CLIENT: Allsup's Petroleum, Inc.
Borehole ID: B-2

DATE OF DRILLING: 3/7/11
 LOGGED BY: WJB
 DRILLER: Matt Cain/WDC
 BOREHOLE DIAMETER: 7 3/4" Nominal
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: 5' X 3" Dia. Core Barrel
 TOP OF CASING ELEV.: NA
 DEPTH TO WATER: ~320'
 TOTAL DEPTH: 69'
 CASING: NA
 SCREEN: NA
 SURFACE COMPLETION: Concrete Patch



USCS - LITHOLOGIC DESCRIPTION

Surface Conditions: 0-6" concrete

0.5'-4.0' Hand Auger 0.0'-2.0' (SC) Clayey very fine sand, medium to weak plasticity. 2.0'-4.0' (SM) Dark brown silty sand, non plastic grading to (SM/ML) at base with greater silt, no apparent hydrocarbon odor, slightly moist.

4.0'-9.0' Core Barrel 5.0' sample. '0.0'-3.5' (SM/ML) As above, minor calcium carbonate, grades to: 3.5'-5.0' (SM/ML) Reddish brown with lessening silt (SM) with depth, slightly moist, no apparent hydrocarbon odor.

9.0'-14.0' Core Barrel 4.4' sample. 0.0'-1.9' (SM) Reddish-brown (7.5YR), silty very fine to fine sand, grades to: 1.9'-4.4 (SM/SC) Clayey silty very fine to fine sand with Stage 2 mottled calcium carbonate in lower 1.5', slightly moist, no apparent hydrocarbon odor.

14.0'-19.0' Core Barrel 4.6' sample. 0.0'-4.6' (SM/ML) Tan-reddish brown silt, very fine sand with Stage 2+ to 3 calcium carbonate localized zones with greater silt (ML) or greater sand (SM), slightly moist, no apparent hydrocarbon odor.

19.0'-24.0' Core Barrel 3.7' sample. 0.0'-3.7' (SM/ML) As above, reddish brown (7.5YR) with Stage 1+ to 2+ calcium carbonate in nodules and as disseminated, slightly moist, no apparent hydrocarbon odor.

24.0'-29.0' Core Barrel 2.6' sample. 0.0'-2.6' (SM/ML) As above grading to (ML) in lower third of interval, dense, calcium carbonate cemented, spidery to laminated calcium carbonate in top two-thirds of interval, slightly moist, no apparent hydrocarbon odor.

29.0'-34.0' Core Barrel 2.7' sample. '0.0'-0.5' (SM/ML) As above, grading to: 0.5'-1.6' (SM) Reddish-brown (7.5YR) silty sand with minor calcium carbonate. 1.6'-2.7' Pedogenic carbonate (caliche), Stage 3 to 3+ with gradational zone at top, white tan matrix is (SM/ML), no apparent hydrocarbon odor, slightly moist.

34.0'-39.0' Core Barrel 5.0' sample. '0.0'-3.6' Caliche, Stage 3+ to 4 pedogenic carbonate with laminar bedding, grades to lesser calcium carbonate zone from: 3.6'-5.0' with Stage 3 carbonate, (SM/ML) matrix, no apparent hydrocarbon odor, slightly moist.

39.0'-44.0' Core Barrel 2.7' sample. Entire core is same as above, (SM/ML) with Stage 3 to 3+ calcium carbonate, no apparent hydrocarbon odor, light tan brown.

44.0'-49.0' Core Barrel 3.9' sample. 0.0'-0.2' Same as above. 0.2'-3.9' (SM) Silty very fine sand, reddish brown (7.5YR) massive, no bedding, well sorted, trace disseminated calcium carbonate, trace hydrocarbon odor, slightly moist.

49.0'-54.0' Core Barrel 4.4' sample. 0.0'-4.4' (SM) Similar to above but with disseminated calcium carbonate to Stage 2+ calcium carbonate in localized zones, light reddish brown, slightly moist, trace hydrocarbon odor.

54.0'-59.0' Core Barrel ~3.5' sample. (SM) Driller dropped core on ground during opening. ~0 to 1.0' (SM) As above. ~1.0'-2.0' Dense caliche, white, hard drilling, ~2.0'-3.5' (SM) As above, Slightly moist.

59.0'-64.0' Core Barrel 5.0' sample. 0.0'-2.3' White to tan colored caliche, dense Stage 3+ grades to: 2.3'-5.0' (SM) Silty sand with extensive Stage 3 to 2+ pedogenic calcium carbonate, light reddish brown, no apparent hydrocarbon odor, slightly moist.

64.0'-69.0' Core Barrel 3.6' sample. 0.0'-3.6' (SM) As above but with less cementation, no apparent hydrocarbon odor, slightly moist.

Construction Data	Borehole Construction	Laboratory Sample b-benzene m-mtbe TPH=TPH gas range	PID Reading (ppm)/ Lab Sample (ppm)	Depth (in feet)	Sample Interval	Simplified Lithology
concrete						
compacted drill cuttings						
		no=no odor wo=weak odor mo=moderate odor so=strong odor vso=very strong odor fl=flame logging	0.6 no	5		
			0.6 no	10		
			0.4 no	15		
			0.7 no	20		
			1.4 no	25		
			0.9 no	30		
			0.6 no	35		
		B-2 40' Caliche 11.04 B=nd M=nd TPH=nd	3.1 no	40		
			4.1 no	45		
			4.3 no	50		
			13.7 wo	55		
			9.6 wo	60		
			8.3 wo	65		
			1.4 no	70		
			7.3 wo	75		
		B-2 69' (SM) 11.30 B=nd M=nd TPH=nd	7.4 wo	80		
			3.0 no	85		
			2.7 no	90		
				TD=69'		



BROWN ENVIRONMENTAL, INC

6759 ACADEMY ROAD, NE SUITE 254, ALBUQUERQUE, NEW MEXICO 87109
 PHONE: (505) 858-1818 FAX: (505) 858-0707

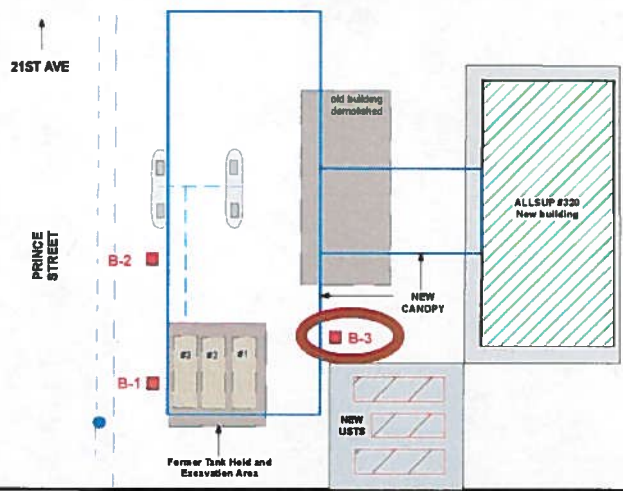
ALLSUPS #320

CLIENT: Allsup Petroleum, Inc.

Borehole ID: B-3

page 1 of 3

DATE OF DRILLING: 3/7/11-3/8/11
 LOGGED BY: WJB
 DRILLER: Matt Cain/WDC
 BOREHOLE DIAMETER: 7 3/4" Nominal
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: 5' X 3" Dia. Core Barrel
 TOP OF CASING ELEV: NA
 DEPTH TO WATER: ~320'
 TOTAL DEPTH: 209'
 CASING: NA
 SCREEN: NA
 SURFACE COMPLETION: Concrete Patch



USCS - LITHOLOGIC DESCRIPTION

Construction Data	Borehole Construction	Laboratory Sample b=benzene m=mibe TPH=TPH gas range	PID Reading (ppm)/ Lab Sample (ppm)	Depth (in feet)	Sample Interval	Simplified Lithology
concrete		no=no odor wo=weak odor mo=moderate odor so=strong odor vs=very strong odor tl=trap logging	0.9 no	0-5		
compacted drill cuttings			0.8 no	5-10		
			0.8 no	10-15		
			0.0 no	15-20		
			2.3 no	20-25		
			0.4 no	25-30		
6%/94% Bentonite Grout in multiple lifts			8.5 no	30-35		
			69 wo	35-40		
			191 mo	40-45		
			197 mo	45-50		
			152 mo	50-55		
			201 mo	55-60		
			184 mo	60-65		
			357 m-so	65-70		
			317 m-so	70-75		
			441 so	75-80		
			357 m-so	80-85		
			661 so	85-90		
			801 so	90-95		
			456 so	95-100		

Surface Conditions: 0-0.5' reinforced concrete

0.5'-2.0' Hand Auger 0.0'-2.0' (SC) Grading to (SM/SC) at base (postholed to 5').

2.0' to 4.0' Core Barrel 2.4' sample. 0.0'-2.4' (SM/SC) Dark brown clayey very fine sand grading to light brown (SM) silty sand at base.

4.0'-9.0' Core Barrel 2.7' sample. 0.0'-1.5' (SM/ML) Light tan very fine sand-silt with disseminated calcium carbonate, soft, grades to: 1.5'-2.7' (SM/SC) Clayey silty very fine sand, weakly plastic, slightly moist, no apparent hydrocarbon odor.

9.0'-14.0' Core Barrel 5.0' sample. 0.0'-0.5' (SM/SC) As above. 0.5'-1.7' (SC) Clayey sand, weakly plastic, grading to (SM/SC) at base. 1.7'-4.0' (SM/ML) Silt-very fine sand mixture with calcium carbonate dissemination, grades to: 4.0'-5.0' (SC) As above.

14.0'-19.0' Core Barrel 4.2' sample. 0.0'-4.2' (SM/ML) As above but with Stage 2+ calcium carbonate mottled light tan-reddish brown, lower 1.5' has Stage 3 calcium carbonate and is light tan-white.

19.0'-24.0' Core Barrel 3.2' sample. 0.0'-0.3' (SC) As above grading to 0.3'-2.5' (SM) Silty very fine sand, no calcium carbonate top to Stage 2+ at base. 2.5'-3.2' (SM/ML) Silt-very fine sand, Stage 2+ calcium carbonate, slightly moist, no apparent hydrocarbon odor.

24.0'-29.0' Core Barrel 2.4' sample. Entire core is dense (SM/ML) with Stage 2+ to Stage 3 calcium carbonate, slightly moist, no apparent hydrocarbon odor, mottled light tan to reddish brown.

29.0'-34.0' Core Barrel 2.3' sample. 0.0'-2.3' (SM/ML) As above with Stage 2 to 3 calcium carbonate, slightly moist, no apparent hydrocarbon odor.

34.0'-39.0' Core Barrel 2.4' sample. Entire core is caliche Stages 3+ to 4, pedogenic carbonate, slightly moist, possible trace hydrocarbon odor at base.

39.0'-44.0' Core Barrel 2.3' sample. (SM/ML) with Stage 3 to 3+ calcium carbonate, mostly caliche, slightly moist, weak degraded hydrocarbon odor.

44.0'-49.0' Core Barrel 2.9' sample. Entire core is (SM/ML) grading to (SM) tan silty very fine sand at base, moderate degraded odor, slightly moist, Stage 2 cementation in top half.

49.0'-54.0' Core Barrel 3.7' sample. 0.0'-3.7' (SM) with Stage 1+ to 2 calcium carbonate except 1.2 to 2.1 zone which is Stage 3+ caliche, lowermost portion has only minor calcium carbonate, moderate hydrocarbon odor.

54.0'-59.0' Core Barrel 3.5' sample. 0.0'-3.5' (SM/ML) grading to (SM) at base with varying amounts to calcium carbonate from Stage 1 to Stage 3, light tan-brown mottled, moderate hydrocarbon odor, slightly moist.

59.0'-64.0' Core Barrel 1.7' sample. Entire core is caliche, Stage 4, very hard drilling, sample is hot, moderate hydrocarbon odor.

64.0'-69.0' Core Barrel 3.1' sample. 0.0'-0.6' (SM) Caliche as above. 0.6'-3.1' (SM) Light tan-brown silty very fine sand, well sorted with localized calcium carbonate nodules and cementation zones, moderate to strong hydrocarbon odor, slightly moist.



BROWN ENVIRONMENTAL, INC

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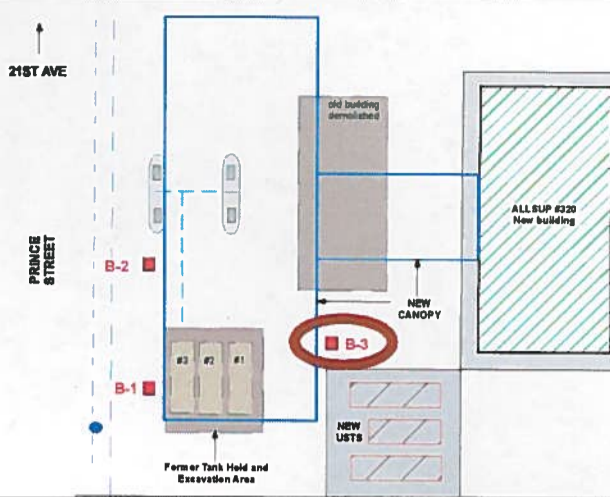
ALLSUPS #320

CLIENT: Allsup Petroleum, Inc.

Borehole ID: B-3

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DATE OF DRILLING: 3/7/11-3/8/11
 LOGGED BY: WJB
 DRILLER: Matt Cain/WDC
 BOREHOLE DIAMETER: 7 3/4" Nominal
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: 5' X 3" Dia. Core Barrel
 TOP OF CASING ELEV: NA
 DEPTH TO WATER: ~320'
 TOTAL DEPTH: 209'
 CASING: NA
 SCREEN: NA
 SURFACE COMPLETION: Concrete Patch



USCS - LITHOLOGIC DESCRIPTION

Construction Data	Borehole Construction	Laboratory Sample b=benzene m=met TPH=TPH gas range	PID Reading (ppm)/ Lab Sample (ppm)	Depth (In feet)	Sample Interval	Simplified Lithology
6% / 94% Bentonite Grout in multiple lifts	[Hatched pattern]	BW-3 73-74' (SM) 16:15 B=nd M=nd TPHg=nd	456 so	75	339 so	[Lithology pattern]
		804 so	80	615 so		
		391 so	85	562 vso		
		802 vso	90	889 vso		
		429 vso	95	671 vso		
		433 vso	100	968 vso		
		498 vso	105	591 vso		
		349 vso	110	109 mo		
		121 mo	115	331 so		
		348 so	120	312 so		
		367 so	125	267 so		
		195 mo	130	233 mo		
		94.9 mo	135	122 mo		
		94 w-mo	140	89 w-mo		

69.0'-74.0' Core Barrel 2.8' sample. Entire core is (SM) tan-brown (10YR) silty fine sand, unconsolidated with one cemented zone at 1.5'-1.9', slightly moist, strong hydrocarbon odor.

74.0'-79.0' Core Barrel 3.8' sample. (SM) Entire core unconsolidated, non bedded with Stage 2+ calcium carbonate at top and bottom of interval, strong hydrocarbon odor, moderate to strong hydrocarbon odor, slightly moist.

79.0'-84.0' Core Barrel 3.9' sample. Entire core is (SM) silty sand, slightly moist, massive, no calcium carbonate, strong hydrocarbon odor.

84.0'-89.0' Core Barrel 3.8' sample. Same as above but with strong hydrocarbon odor.

89.0'-94.0' Core Barrel 3.9 sample. (SM) As above with increasing disseminated calcium carbonate at base, moderate cementation, very strong degraded gas odor, slightly moist.

94.0'-99.0' Core Barrel 3.5' sample. Entire core is (SM/ML), slightly moist to moist, massive, unconsolidated, strong hydrocarbon odor.

99.0'-104.0' Core Barrel 3.7' sample. (SM) As above, entire core, strong hydrocarbon odor.

104.0'-109.0' Core Barrel 3.6' sample. Same as above - very strong hydrocarbon odor

< 18:05 Stop drilling for tonight - out of augers >

3/8/11 Begin drilling at 109' at 7:15

109.0'-114.0' Core Barrel 3.9' sample. (SM) As above with minor to moderate disseminated calcium carbonate cement at base, moderate to strong hydrocarbon odor, slightly moist.

114.0'-119.0' Core Barrel 3.8' sample. (SM) Massive, unconsolidated, minor localized weakly cemented nodules, moderate to strong hydrocarbon odor, slightly moist.

119.0'-124.0' Core Barrel 3.0' sample. (SM) As above, strong hydrocarbon odor, moist, unconsolidated.

124.0'-129.0' Core Barrel 2.8' sample. Same as above, slightly moist.

129.0'-134.0' Core Barrel 2.9' sample. 0.0'-2.9' (SM) Same as above, minor calcium carbonate disseminated cement at base, moderate hydrocarbon odor, slightly moist.

134.0'-139.0' Core Barrel 4.6' sample. 0.0'-4.6' (SM) As above but with overall disseminated calcium carbonate, moderate hydrocarbon odor, slightly moist - less than above.

139.0'-144.0' Core Barrel 4.8' sample. 0.0'-2.0' (SM) with calcium carbonate as above. 2.0'-4.8' (SM) without cement, weak to moderate degraded hydrocarbon odor.



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