



TCEQ PETROLEUM STORAGE TANK PROGRAM DRINKING WATER SURVEY REPORT

GARCIA'S PANTRY #2
401 NORTH TIMBERLAND DRIVE
LUFKIN (ANGELINA COUNTY), TEXAS 75901
TCEQ FACILITY ID NO.: 18485
TCEQ LPST ID NO.: 120659

PREPARED FOR:

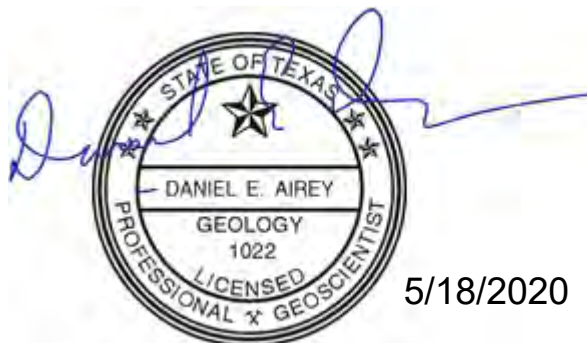
GARCIA'S PANTRY, LLC
212 CROSS TIMBERS STREET
LUFKIN, TEXAS 75904

PREPARED BY:

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P.O. BOX 201179
AUSTIN, TEXAS 78720

MAY 2020

RANGER PROJECT NO. 5575



**DANIEL E. AIREY, CAPM, P.G. (NO. 1022)
SENIOR PROJECT GEOLOGIST**

Drinking Water Survey Report Transmittal Form (Remediation Division, TCEQ)

Remediation Division Program: LPST	Transmittal Date: 05-28-2020		
Program ID No.: Facility ID No. 18485; LPST ID No. 120659 Regulated Entity Reference No.: RN102355864; Customer Reference No.: CN603945759	Document Date: 05-19-2020		
Facility Name: Garcia's Pantry #2	Submittal ☐ With Initial Release Documentation ☐ Expedited TCEQ Request ☒ Non-Expedited TCEQ Request		
Physical address of property where groundwater assessment was conducted. Street: 401 North Timberland Drive City: Lufkin			
Have you contacted the applicable groundwater conservation district? (This is a required step—it must be completed. Choose NA only if there is no groundwater conservation district for the area.)	☒ Yes		☐ NA
Has the extent of groundwater contamination been defined to residential health-based values for ingestion?	☐ Yes	☒ No	
If the extent of groundwater contamination has been defined to residential health-based values for ingestion, are any private drinking water wells located within the groundwater contaminant plume?	☐ Yes	☐ No	☒ NA
If the extent of groundwater contamination has not been defined to residential health-based values for ingestion, are any private drinking water wells located within a 0.25-mile radius of the known extent of groundwater contamination?	☐ Yes	☒ No	☐ NA



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EXECUTIVE SUMMARY

Layout and Use of Site: The subject site is an operating retail fueling facility (Garcia's Pantry #2). The facility was observed to house a convenience store with one awning covering six product fueling dispensers. One 30,000 gallon compartmentalized underground storage tank (UST) is currently present at the site. A site map noting pertinent site features is attached, as well as a topographic map showing the location of the site and surrounding areas.

Groundwater Contaminants: Groundwater analytical results from the April 2020 monitoring activities documented the presence of total petroleum hydrocarbons (TPH), methyl tert-butyl ether (MTBE), benzene, toluene, ethylbenzene and xylenes (BTEX), and polycyclic aromatic hydrocarbons (PAHs). Benzene and several PAHs were documented to be present at concentrations in excess of the applicable TCEQ Petroleum Storage Tank (PST) Target Concentrations for groundwater (i.e., Plan A Category II, Construction Worker, and Future Use).

Areas Without a Public Water Supply or Connection to One: Ranger contacted the City of Lufkin and the Piney Woods Groundwater Conservation District regarding the availability of public water within a 0.5 mile radius of Garcia's Pantry #2. Based on these conversations, all properties within 0.5 miles of the site are served by the City of Lufkin, and there are no private water wells within 0.5 miles.

Affected or Potentially Affected Private Drinking Water Wells: Ranger did not identify any affected or potentially affected private drinking water wells as part of this drinking water survey.

1.0 GROUNDWATER CONTAMINATION

1.1 Groundwater Contaminants and Investigation Methods

In October 2018 and June 2019, piping repair and UST removal activities were conducted at the site. Soil sample results documented chemical of concern (COC) concentrations above PST action levels; however, no groundwater samples were collected as water was not encountered during either activity.

Five monitor wells (MWs 1-5) were installed on April 16-17, 2020, and a groundwater monitoring event was conducted on April 23, 2020. Groundwater samples were analyzed for BTEX, MTBE, TPH, and PAHs and found to exceed the applicable PST Target Concentrations for benzene as well as 6 of the 16 PAHs for which the groundwater samples were analyzed.

1.2 Concentrations of Contaminants Relative to Residential Health-Based Values for Ingestion

The analytical results of the April 2020 groundwater monitoring event documented concentrations of benzene and six PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, ideno(1,2,3-cd)pyrene, and naphthalene) that exceed health-based values for ingestion. All other COCs were below their respective health-based target groundwater concentrations.

1.3 Chemical and Physical Characteristics of the Contaminants that Relate to the Potential for a Private Drinking Water Well(s) to be Affected

According to the Bureau of Economic Geology, Geological Circular 97-1 (1997), most leaking petroleum storage tank (LPST) groundwater contaminant plumes in Texas are less than 300 feet long, and have a median length of about 180 feet. Based upon this study and the fact that no water wells were identified within 0.5 miles of the site, there appears to be very low potential for any water wells to be affected.

1.4 Public or Private Water Well Analytical Results

No public or private water wells were sampled as part of this Drinking Water Survey or previous site investigations, and no historic sampling data were obtained in conjunction with the water well records inventory or from any other sources interviewed as part of this Drinking Water Survey.

1.5 Current Phase of Investigation, Including Whether or Not the Lateral and Vertical Extent of Groundwater Contamination has been Defined to Residential Health-Based Values for Ingestion

To date, five monitor wells have been installed at the subject site to evaluate groundwater conditions. The dissolved-phase concentrations exceed health-based values for ingestion for benzene and 6 PAHs. The lateral extent of the dissolved-phase plume has not yet been defined to residential health-based values for ingestion.

2.0 PUBLIC WATER AVAILABILITY AND CONNECTION

On May 12, 2020, Ranger personnel contacted Albert Duffield, the City of Lufkin Water and Sewer Director, regarding the availability of public water within a 0.5-mile radius of the Garcia's Pantry #2 facility. According to Mr. Duffield, the subject site and the area within a 0.5-mile radius are served water by the City of Lufkin. Mr. Duffield said there were no private water wells within the 0.5-mile radius. Ranger personnel also spoke to Mr. John McFarland, General Manager of the Piney Woods Groundwater Conservation District, on May 12, 2020 regarding the presence of any private water wells within a 0.5-mile radius of the site. Mr. McFarland reviewed the available information and indicated the district was unaware of any private wells within a 0.5 mile radius of the site.

3.0 GROUNDWATER PRODUCTION ZONES

3.1 Local Hydrogeology

Based upon a review of the *Geologic Atlas of Texas – Palestine Sheet*, the subject site is located over the Yegua Formation, a state-designated minor aquifer. The site-specific lithology encountered during the subsurface assessment activities consisted of sand, clay, silt, sandstone, and claystone. The groundwater depth at the time of drilling was documented to be approximately 13'-30' bgs. The depth to groundwater subsequently rose to approximately 3.32' – 3.97' bgs.

3.2 Private Drinking Water Well Groundwater Production Zones

Ranger conducted a 0.5-mile water well records survey and a 500' walking receptor survey. No private water wells were identified during either activity.

4.0 AFFECTED OR POTENTIALLY AFFECTED WATER WELLS

Based upon the results of the Drinking Water Survey, no private drinking water wells were identified as being affected or potentially affected by groundwater contamination.

This Drinking Water Survey Report has been prepared in general accordance with the requirements of TCEQ Publication RG-428 "*Preparation of a Drinking Water Survey Report*" (January 2010).

FIGURES

Please find Figures in attached Assessment Report Form (ARF) Attachments 1 through 3.

TABLES

Please find Tables in attached Assessment Report Form (ARF) Attachment 15

ATTACHMENT 1
LABORATORY ANALYTICAL AND
QUALITY CONTROL DATA

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Please find Laboratory Analytical and Quality Control Data in attached Assessment Report Form (ARF), Attachment 17.

ATTACHMENT 2
SOIL BORING LOGS AND MONITORING
WELL CONSTRUCTION DETAILS

ATTACHMENT 2
SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DETAILS

Please find Soil Boring Logs and Monitoring Well Construction Details in attached Assessment Report Form (ARF), Attachment 14.

ATTACHMENT 3
WATER WELL DATABASE SEARCHES

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WATER WEL DATABASE SEARCHES

Please find the 0.5-mile Texas Water Well Report in attached Assessment Report Form (ARF), Attachment 4.

ATTACHMENT 4
WELL REPORTS

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Please find the 0.5-mile Texas Water Well Report in attached Assessment Report Form (ARF), Attachment 4.

ATTACHMENT 5
MAILING LABELS

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MAILING LABELS

Mailing labels for the owners and users of an affected or potentially affected private drinking water well are not attached as no affected or potentially affected private drinking water wells were identified.

ATTACHMENT 6
ELECTRONIC FILES

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ELECTRONIC FILES

A hard copy of the water well information has been included in the 0.5-mile Texas Water Well Report in the attached Assessment Report Form (ARF), Attachment 4. An electronic file can be provided upon request. An electronic file of mailing labels is not provided as no affected or potentially affected private drinking water wells were identified.