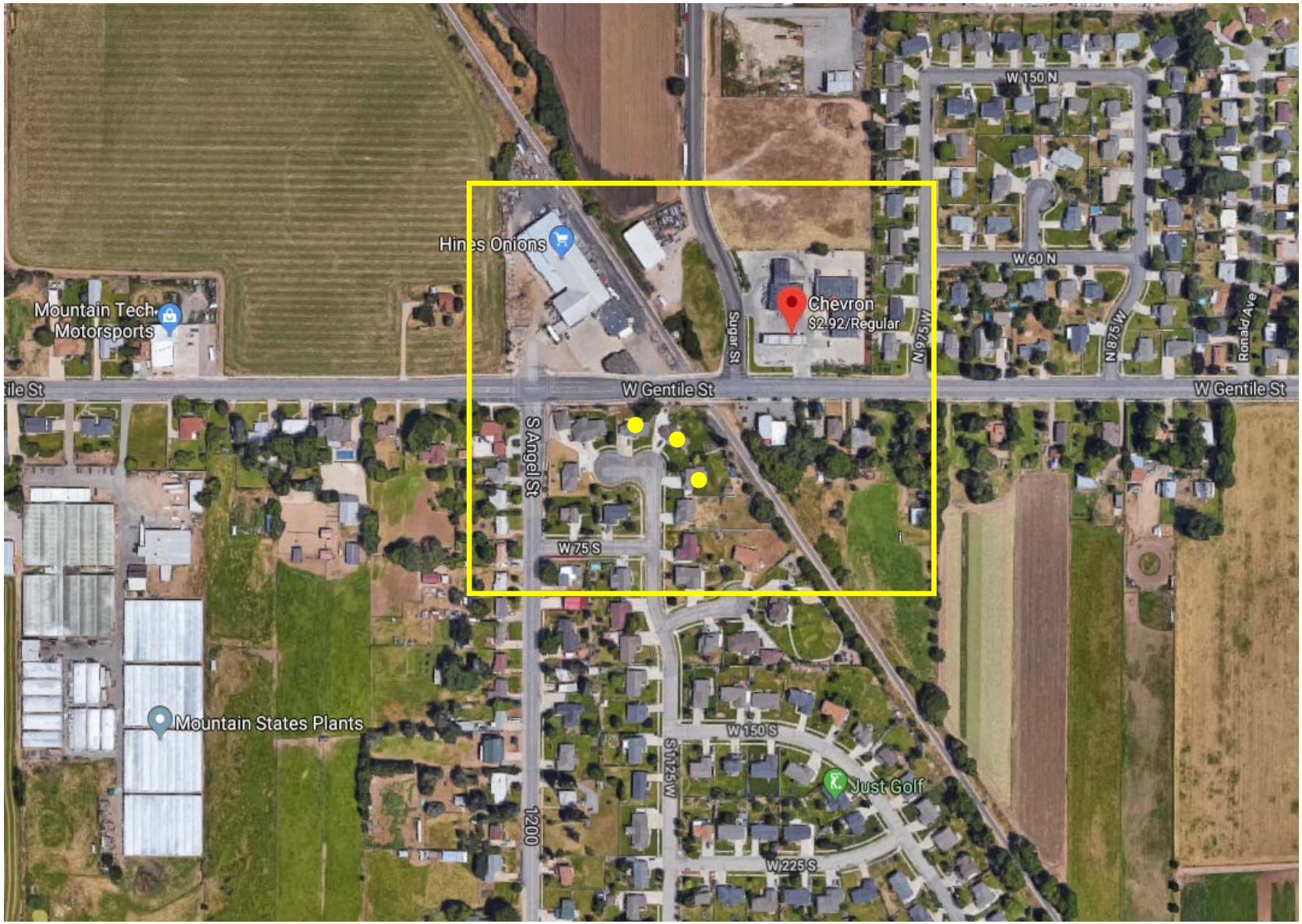
Layton City Vapor Intrusion Incident

Board of Health

August 13, 2019


W 150 N
Hines Onions
W 60 N
Chevron
$2.92/Regular
Mountain Tech Motorsports
Sagers St
N 975 W
N 875 W
Ronald Ave
W Gentile St
W Gentile St
S Angel St
W 75 S
Mountain States Plants
W 150 S
S 1125 W
Just Golf
1200
W 225 S

February

Initial Response

- Feb. 14 – Received a complaint from a Layton resident stating his basement smelled like gasoline
  - Health Department and Layton City Fire Department responded and conducted air monitoring
  - Department of Environmental Quality (DEQ) requested automatic tank gauging records from a nearby gas station
- Feb. 16 – Residents decided to leave their homes due to smell
  - DEQ Activity – No leak indicated from gas station
  - Both nearby petroleum pipelines were shut down
- Feb. 17 – Received an additional complaint that the storm drains now smelled like gasoline
  - Fire Department conducted air monitoring
  - Both pipelines passed pressure tests

February

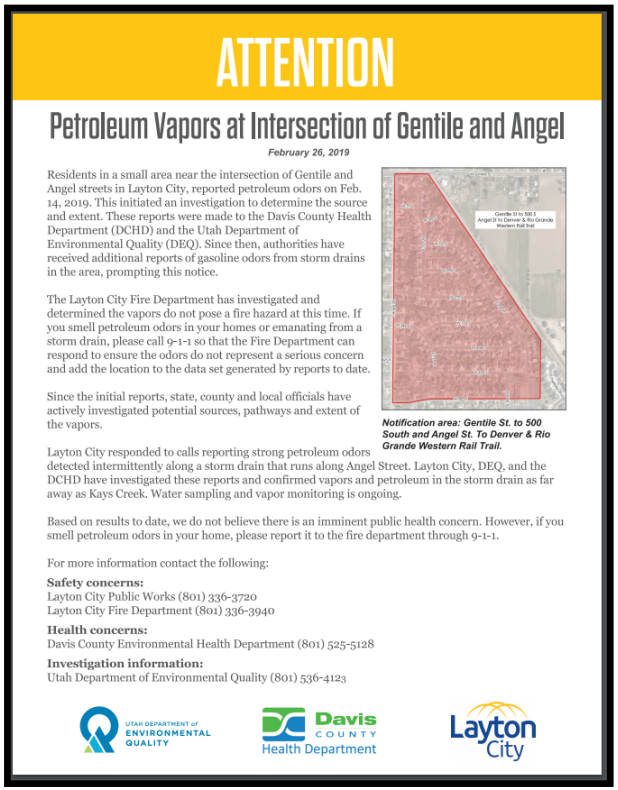
Response Continued

- Feb. 20 – Health Department met on-site with DEQ, pipeline companies, Fire Department and Layton City Public Works
  - Air monitoring of three homes
- Feb. 21 – Excavating of Tesoro/Andeavor Pipeline
- Feb. 21 – DEQ Executive Director authorized the use of Hazardous Substance Mitigation Act (HSMA)
- Feb. 22 – Public Works conducted drinking water sampling
- Feb. 23 – Health Department assisted Public Works sample an outfall to Kays Creek

February

Response Continued

- Feb. 25 – Meeting with all involved agencies
  - Kays Creek samples were positive for benzene
- Feb. 26 – Flyers were distributed
  - Samples were collected from the homes
  - Vapor extraction systems were installed in three homes
- Feb. 27 – Two additional homes reported gas fumes
  - Utah's National Guard provided technical assistance
  - Drinking water sample results were satisfactory
  - Gas station tank and line tightness test performed
  - Booms placed in Kays Creek



ATTENTION

Petroleum Vapors at Intersection of Gentile and Angel

February 26, 2019

Residents in a small area near the intersection of Gentile and Angel streets in Layton City, reported petroleum odors on Feb. 14, 2019. This initiated an investigation to determine the source and extent. These reports were made to the Davis County Health Department (DCHD) and the Utah Department of Environmental Quality (DEQ). Since then, authorities have received additional reports of gasoline odors from storm drains in the area, prompting this notice.

The Layton City Fire Department has investigated and determined the vapors do not pose a fire hazard at this time. If you smell petroleum odors in your homes or emanating from a storm drain, please call 9-1-1 so that the Fire Department can respond to ensure the odors do not represent a serious concern and add the location to the data set generated by reports to date.

Since the initial reports, state, county and local officials have actively investigated potential sources, pathways and extent of the vapors.

Notification area: Gentile St. to 500 South and Angel St. To Denver & Rio Grande Western Rail Trail.

Layton City responded to calls reporting strong petroleum odors detected intermittently along a storm drain that runs along Angel Street. Layton City, DEQ, and the DCHD have investigated these reports and confirmed vapors and petroleum in the storm drain as far away as Kays Creek. Water sampling and vapor monitoring is ongoing.

Based on results to date, we do not believe there is an imminent public health concern. However, if you smell petroleum odors in your home, please report it to the fire department through 9-1-1.

For more information contact the following:

Safety concerns:
Layton City Public Works (801) 336-3720
Layton City Fire Department (801) 336-3940

Health concerns:
Davis County Environmental Health Department (801) 525-5128

Investigation information:
Utah Department of Environmental Quality (801) 536-4123

Utah Department of Environmental Quality · Davis County Health Department · Layton City

March

Response Continued

- March 1 – The cause was determined to be vapor intrusion from contaminated groundwater
  - Lots of sample results
- March 1 – Vapor mitigation systems installed in homes were operational
- March 1 – It was determined that the spill bucket on the unleaded tank was cracked
- March 5 – Health Department conducted air monitoring at bus stops



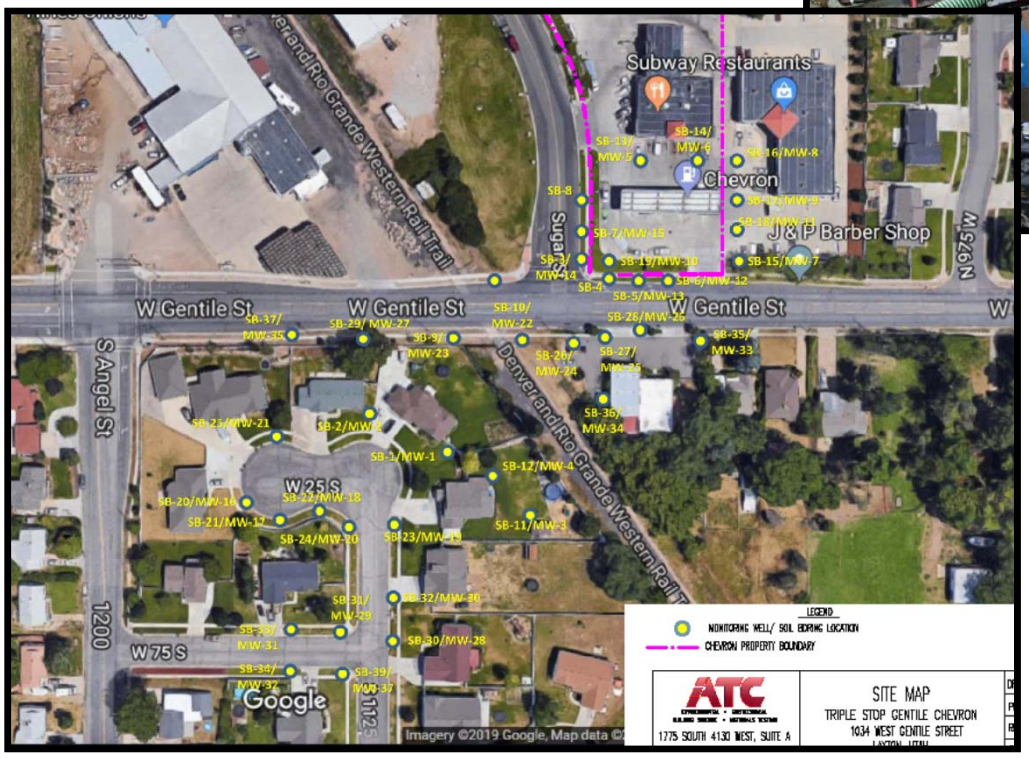


March

Response Continued



- Utah Department of Health evaluated health risks for residents
- March 1 – 20 Thirty ground water monitoring wells were installed

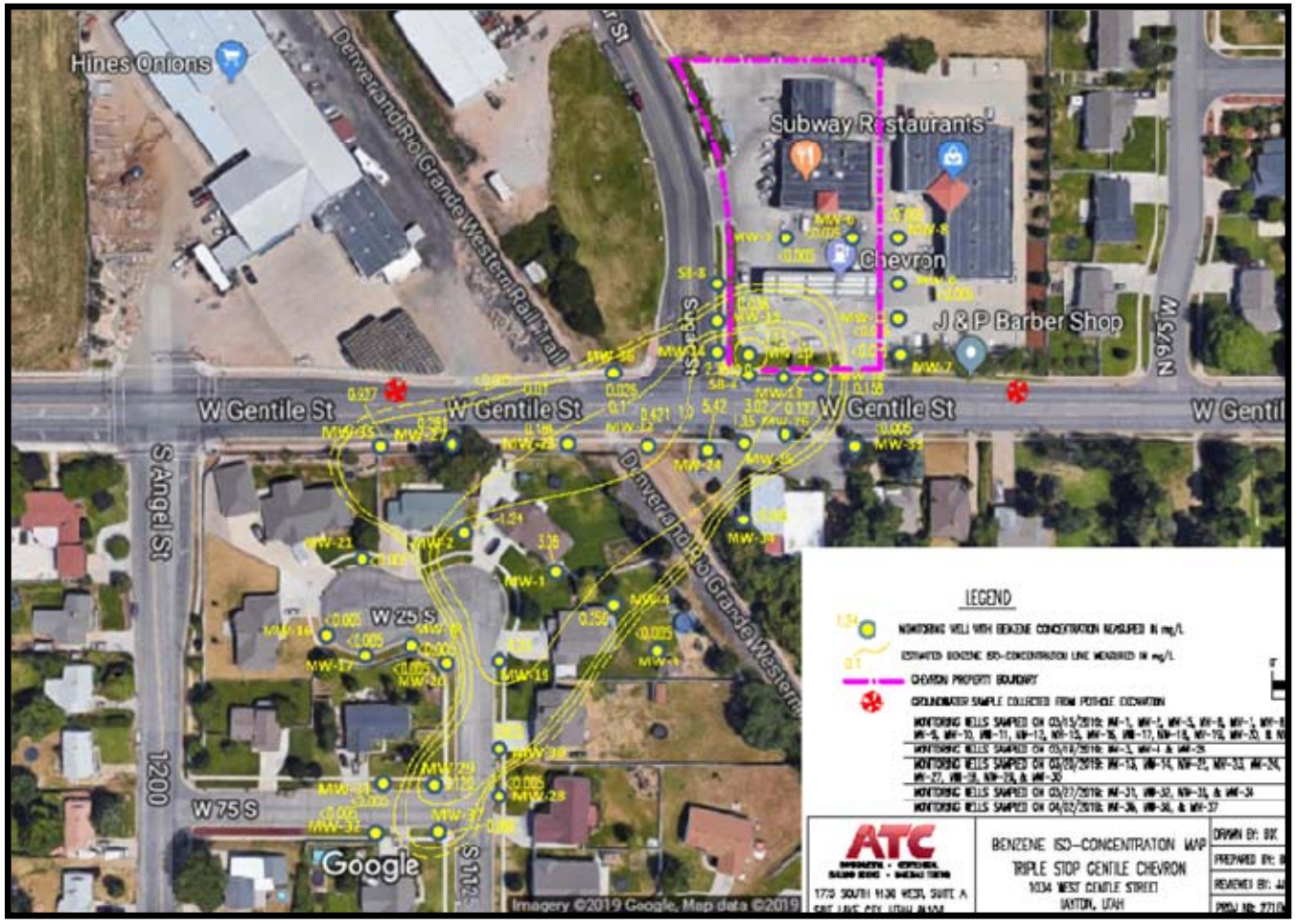


April

Response Continued

- April 5 – DEQ received tracer test results from Underground Storage Tank at gas station
  - Initial test indicated no ongoing release
- April 16 – Groundwater monitoring wells identified source of petroleum plume after compelling evidence that the plume originated from Chevron gas station on the corner of Gentile and Sugar Street
  - Owner applied for Petroleum Storage Tank (PST) Fund
  - Terracon (Environmental Consultant Company) contracted to conduct clean up

April

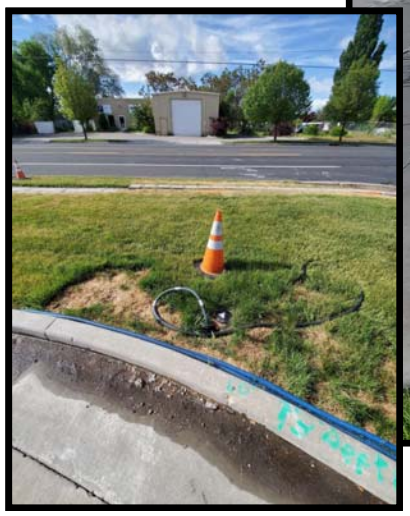

Hines Onions
Denver and Rio Grande Western Rail Trail
Subway Restaurants
Chevron
J & P Barber Shop
W Gentile St
W Gentile St
W Gentile St
W Gentil
S Angel St
1200
W 25 S
W 75 S
W 95 N
Google
Imagery ©2019 Google, Map data ©2019
LEGEND
CHEVRON PROPERTY BOUNDARY
ATC
BENZENE ISO-CONCENTRATION MAP
TRIPLE STOP GENTILE CHEVRON
1034 WEST GENTILE STREET
DAYTON, UTAH

May

Remediation Begins

- May – 17 Terracon's Cal-Clean dual-phase extraction truck is operational







Remediation Continues

- July 1 – Terracon's Cal-Clean truck recovered a total of 2,000 gallons of product
  - Free product in MW-10 has reduced from 10" to 4"
- July 2 – Meeting with all agencies to discuss contamination of sanitary sewer and storm drains

Moving Forward

- Two Vac-truck events to remove ground water are being scheduled
- Permanent sampling/extraction structure will be assessed
- Layton City will help with air monitoring



Questions