

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

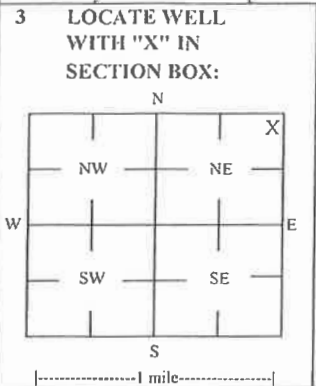
Well ID

MW5

Original Record Correction Change in Well Ust

1 LOCATION OF WATER WELL: Fraction NE 1/4 NE 1/4 NE 1/4 NE 1/4 Section Number 12 Township Number T 13 S 19 R 19 E 1 W Range Number

2 WELL OWNER: Last Name: Business: KDHE (Louisiana Purchase Shopping Center) Address: 1000 SW Jackson City Topeka State: KS ZIP: 66612 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): 2301 Louisiana St, Lawrence, KS



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 19 ft Depth(s) Groundwater Encountered: 1) 19 ft 2) 0 ft 3) 0 ft or 4) Dry Well WELL'S STATIC WATER LEVEL: 5.09 ft. X below land surface, measured on (mo-day-yr) 8/7/19

5 Latitude: 38.94266 (decimal degrees) Longitude: 95.24231 (decimal degrees) Horizontal Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: X Land Survey GPS Topographic Map Online Mapper 6 Elevation: 878.07 ft Ground Level TOC Source: X Land Survey GPS Topographic Map Other

7 WELL WATER TO BE USED AS: 1 Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 2 Public Water Supply: well ID Dewatering: how many wells? 3 Aquifer Recharge: well ID 4 Monitoring: well ID MW5 5 Environmental Remediation: well ID Air Sparge Soil Vapor Extractor Recovery Injection 6 Oil Field Water Supply: lease 7 Test Hole: well ID Cased Uncased Geotechnical 8 Geothermal: How many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No X No If yes, date sample was submitted: Water well disinfected? Yes No X No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded X Threaded Casing diameter 2 in. to 9 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.42 in. Weight lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Other (Specify) Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot X Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole) SCREEN-PERFORATED INTERVALS: From 9 ft. to 19 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 7 ft. to 19 ft, From ft. to ft, From ft. to ft,

9 GROUT MATERIAL: Neat cement Cement grout X Bentonite X Other Concrete: 0-0.7 Grout intervals: From 0.7 ft. to 7 ft, From ft. to ft, From ft. to ft,

Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon X Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well / Gas Well Other (Specify) Direction from well? ~40 ft Distance from well? E ft

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Row 1: 0, 1.5, Silty clay with gravel, , , , Row 2: 1.5, 13.5, Silty clay, , , , Row 3: 13.5, 19, Shale, , , ,

Notes: KDHE ID: Louisiana Purchase Shopping Center; U4-023-15105 Target of monitoring well is shallow groundwater, <20' of grout was installed at the direction of KDHE.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was X constructed, constructed or plugged under my jurisdiction and was completed on (mo-day-year) 7/18/19 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No 757 This Water Well Record was completed on (mo-day-year) 8/15/19 under the business name of Larsen & Associates, Inc. Signature

NOTE: Figures exhibited within this report are only to be used within the context of this report. Placement of property lines, wells, structures, and roads is based on the available information from county appraiser maps, surveys, site visits, and/or previous vendor reports and should be considered approximate.

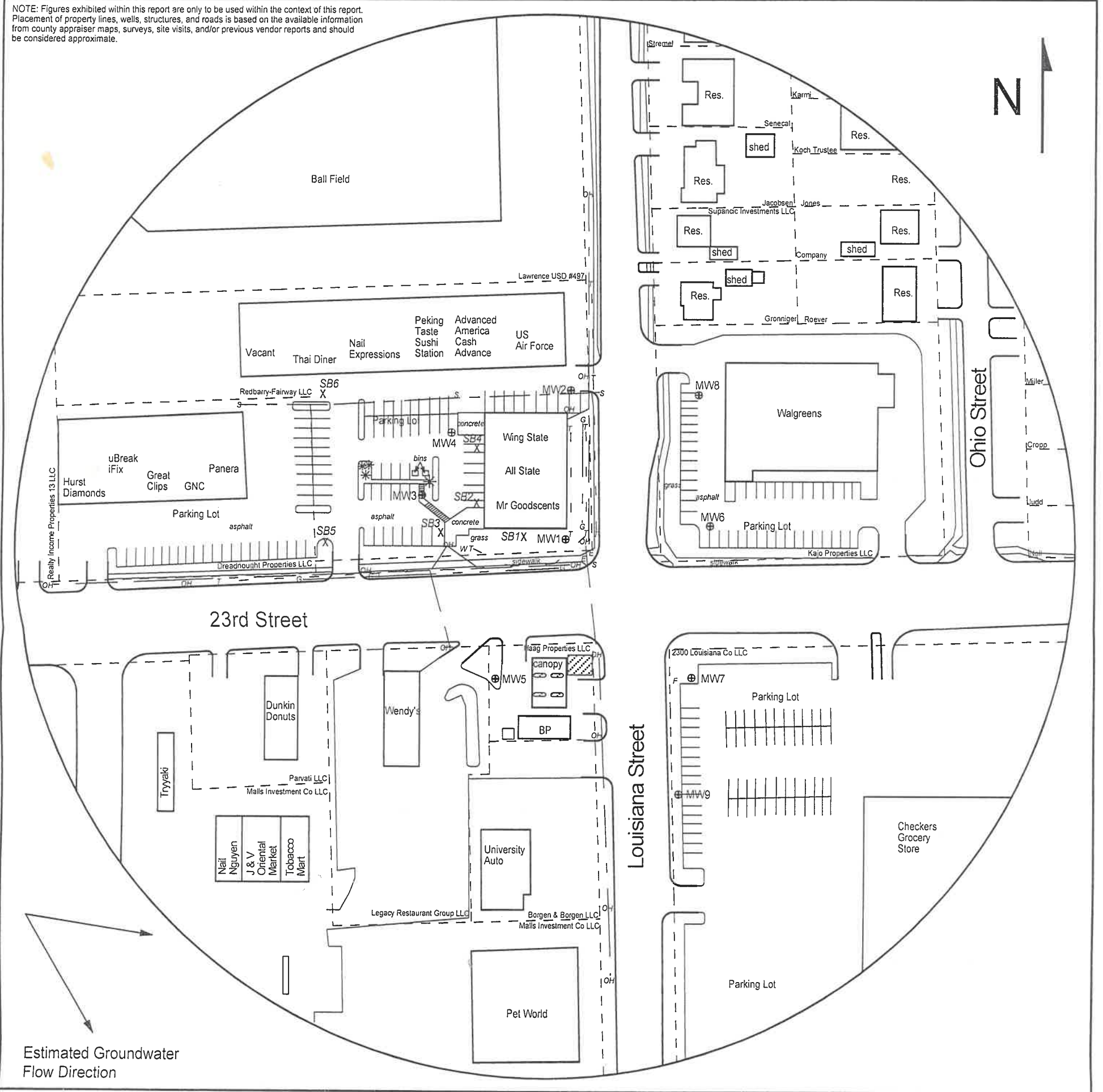


FIGURE 2.2 - 500 FT RADIUS AREA BASE MAP

LEGEND

- Approximate Location of Active UST Basin & Pump Islands
- Approximate Location of Property Line
- Monitoring Well (Installed 7/16-18/19)
- Soil Boring (Drilled 7/17/19 & 7/19/19)
- Fire Hydrant
- Electric Lines (2 - 6 ft bgs)
- Gas Lines (1.5 - 3 ft bgs)
- Overhead Lines (25'-40' high)
- Sewer Lines (2 - 6 ft bgs)
- Telephone Lines (2 - 6 ft bgs)
- Water Lines (2 - 6 ft bgs)

NOTE: Location of UST basin, product lines and pump islands is unknown.  
NOTE: SB5 & SB6 were drilled to collect hydrologic samples.  
NOTE: Utility depths, heights and locations are approximate.



PROJECT:  
Louisiana Purchase Shopping Center  
2233 Louisiana St  
Lawrence, KS  
KDHE ID: U4-023-15105  
Date: 8/7/19



1311 E 25th St., Suite B 785-841-8707 office  
Lawrence, KS 66046 785-865-4282 fax

RECEIVED  
SEP 06 2019  
BUREAU OF WATER

# DENNIS L HANDKE

1820 NW 59th Terrace  
TOPEKA, KANSAS 66618  
785-286-4047 Home

Jess Chapman  
Larsen & Associates  
1311 E. 25<sup>th</sup> Street, Suite B  
Lawrence, Kansas 66046

August 17, 2019

RE: Monitor Well Elevation Survey  
2233 Louisiana St., Lawrence, Kansas

Proj. 19-00Z  
Louisiana Purchase Shopping Center  
KDHE ID U4-023-15105

Bench Mark: Chisled Sq. on NW corner of concrete signal light base.

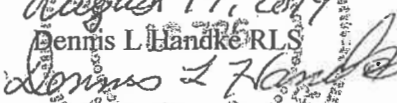
Elev: 878.50      North 33.27      West 50.29      (from SE Cor. Sec. 1-13-19E)

MW-1	rim	879.25	North	54.63	SE1/4,SE1/4,SE1/4,SE1/4
	top pipe	878.92	West	65.83	Lat = 38.94301    Long = 95.24206
MW-2	rim	879.36	North	197.72	SE1/4,SE1/4,SE1/4,SE1/4
	top pipe	878.96	West	49.97	Lat = 38.94340    Long = 95.24200
MW-3	rim	880.43	North	97.19	SE1/4,SE1/4,SE1/4,SE1/4
	top pipe	880.11	West	194.45	Lat = 38.94313    Long = 95.24251
MW-4	rim	880.41	North	156.54	SE1/4,SE1/4,SE1/4,SE1/4
	top pipe	880.03	West	166.92	Lat = 38.94329    Long = 95.24241
MW-5	rim	878.49	South	70.95	NE1/4,NE1/4,NE1/4,NE1/4 (Sec. 12-13-19E)
	top pipe	878.07	West	136.43	Lat = 38.94266    Long = 95.24231
MW-6	rim	878.84	North	66.63	SW1/4,SW1/4,SW1/4,SW1/4 (Sec. 6-13-20E)
	top pipe	878.51	East	75.18	Lat = 38.94304    Long = 95.24156
MW-7	rim	874.97	South	80.69	NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 7-13-20E)
	top pipe	874.42	East	60.42	Lat = 38.94264    Long = 95.24162
MW-8	rim	878.17	North	186.16	SW1/4,SW1/4,SW1/4,SW1/4 (Sec. 6-13-20E)
	top pipe	877.85	East	68.43	Lat = 38.94337    Long = 95.24159
MW-9	rim	874.77	South	188.86	NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 7-13-20E)
	top pipe	874.44	East	42.26	Lat = 38.94234    Long = 95.24168

Elevation derived from City of Lawrence bench mark at 23<sup>RD</sup> & Alabama. NAVD 27.

Lat & Long derived from Lawrence East 7.5 Quad Map WGS84.

If you have any questions, please feel free to call me. Thank you for the opportunity to be of service to you.

August 17, 2019  
Dennis L Handke RLS  
  
Dennis L Handke  
KANSAS  
LAND SURVEYOR