

WATER WELL RECORD

Form WWC-5

Division of Water
Resources App. No.

Well ID

MW9

Original Record Correction Change in Well Use

<p>1 LOCATION OF WATER WELL: County Douglas</p>	<p>Fraction NW ¼ NW ¼ NW ¼ NW ¼</p>	<p>Section Number 7</p>	<p>Township Number T 13 S</p>	<p>Range Number R 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W</p>
<p>2 WELL OWNER: Last Name: First: Business: KDHE (Louisiana Purchase Shopping Center) Address: 1000 SW Jackson Address: City Topeka State: KS ZIP: 66612</p>	<p>Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input type="checkbox"/> 2300 Louisiana St, Lawrence, KS</p>			
<p>3 LOCATE WELL WITH "X" IN SECTION BOX:</p> <div style="text-align: center;"> </div>	<p>4 DEPTH OF COMPLETED WELL: 15 ft Depth(s) Groundwater Encountered: 1) _____ ft 2) _____ ft 3) _____ ft, or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 7.15 ft. <input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) 8/7/19 <input type="checkbox"/> above land surface, measured on (mo-day-yr) _____ Pump test data: Well water was _____ ft after _____ hours pumping _____ gpm Water well was _____ ft after _____ hours pumping _____ gpm Estimated Yield: _____ gpm Bore Hole Diameter: 7.25 in to _____ ft, and _____ in to _____ ft</p>	<p>5 Latitude: 38.94234 (decimal degrees) Longitude: 95.24168 (decimal degrees) Horizontal Datum: <input type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model: _____) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper</p>		
<p>6 Elevation: 874.44 ft <input type="checkbox"/> Ground Level <input checked="" type="checkbox"/> TOC Source <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input type="checkbox"/> Other _____</p>				

7 WELL WATER TO BE USED AS:

<p>1 Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock 2 <input type="checkbox"/> Irrigation 3 <input type="checkbox"/> Feedlot 4 <input type="checkbox"/> Industrial</p>	<p>5 <input type="checkbox"/> Public Water Supply: well ID 6 <input type="checkbox"/> Dewatering: how many wells? 7 <input type="checkbox"/> Aquifer Recharge: well ID 8 <input checked="" type="checkbox"/> Monitoring: well ID MW9 9 Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extractor <input type="checkbox"/> Recovery <input type="checkbox"/> Injection</p>	<p>10 <input type="checkbox"/> Oil Field Water Supply: lease _____ 11 Test Hole: well ID _____ <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical 12 Geothermal: How many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water <input type="checkbox"/> Other (specify): _____</p>
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Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: _____
Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other _____ CASING JOINTS: Glued Clamped Welded Threaded
Casing diameter 2 in. to 5 ft, Diameter _____ in. to _____ ft, Diameter _____ in. to _____ ft,
Casing height above land surface -0.33 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 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 5 ft. to 15 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft,
GRAVEL PACK INTERVALS: From 3 ft. to 15 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft,

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Concrete: 0-0.7'
Grout intervals: From 0.7 ft. to 3 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 Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well / Gas Well
 Other (Specify) _____

Direction from well? ~140 ft Distance from well? NW _____ ft

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.4	Topsoil, silty clay with gravel			
0.4	12	Silty clay/weathered shale/mudstone			
12	15	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 constructed, reconstructed, 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.

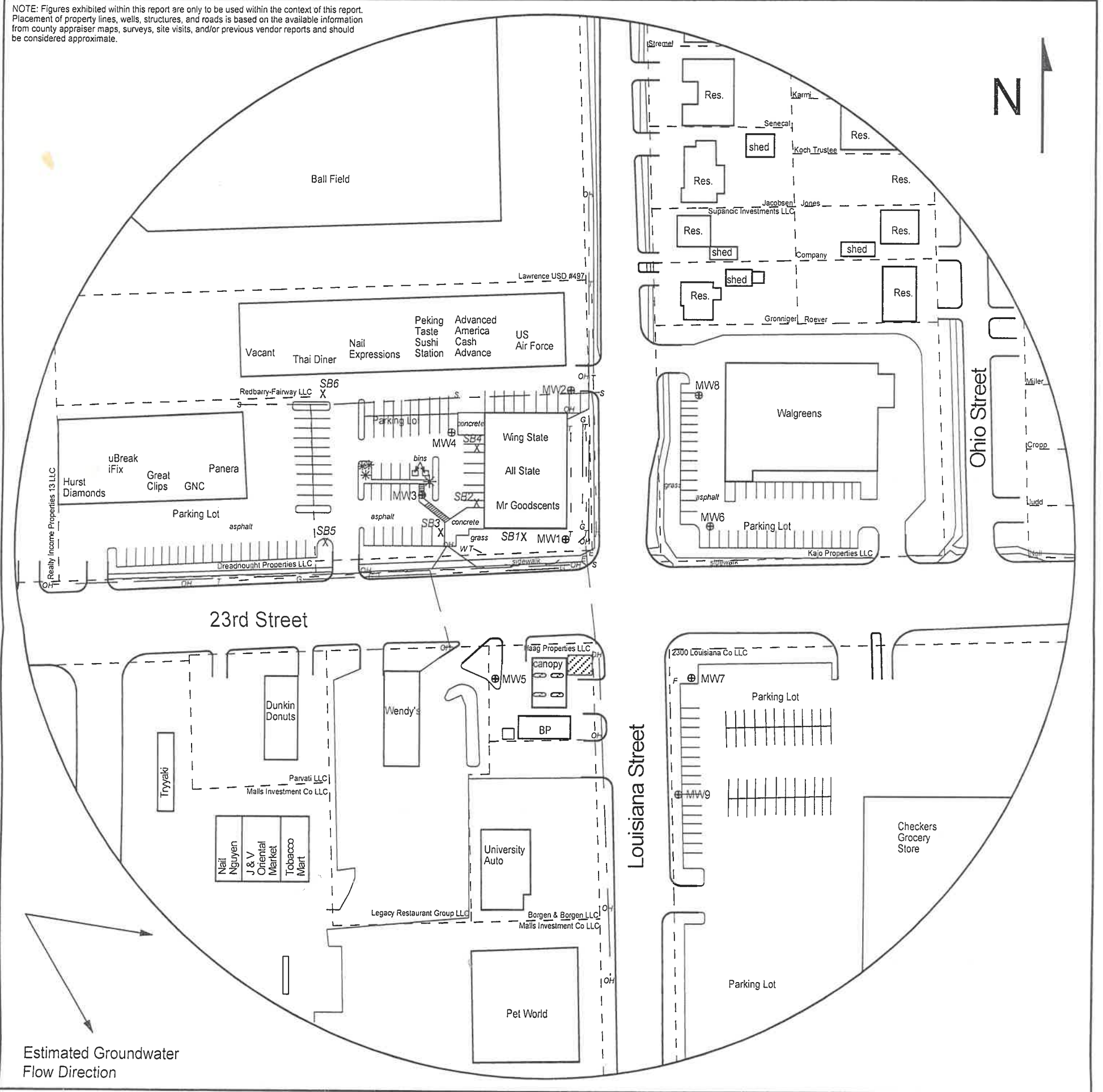


FIGURE 2.2 - 500 FT RADIUS AREA BASE MAP

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. 25th 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 23RD & 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

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KANSAS
LAND SURVEYOR