

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

[Empty box for App. No.]

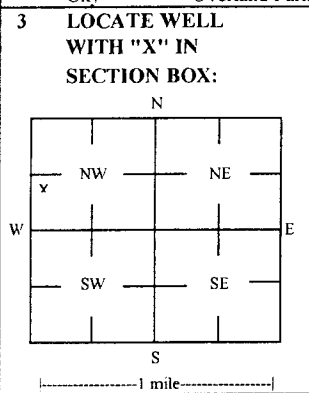
Well ID

MW12

[X] Original Record [] Correction [] Change in Well Ust

1 LOCATION OF WATER WELL: County Johnson Fraction SE 1/4 NW 1/4 SW 1/4 NW 1/4 Section Number 29 Township Number T 12 S Range Number R 25 [X] E [] W

2 WELL OWNER: Last Name: Business: Mac's 66, Inc. Address: 8139 Metcalf Ave. City Overland Park State: KS ZIP: 66204 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): 8131 Metcalf Ave., Overland Park, KS



4 DEPTH OF COMPLETED WELL: 13 ft. Depth(s) Groundwater Encountered: 1) _____ ft. 2) _____ ft. 3) _____ ft. or 4) [] Dry Well. WELL'S STATIC WATER LEVEL: 2.94 ft. [X] below land surface, measured on (mo-day-yr) 8/24/2017. 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.

5 Latitude: 38.98104 (decimal degrees) Longitude: 94.66636 (decimal degrees) Horizontal Datum: [] WGS 84 [] NAD 83 [] NAD 27 Source for Latitude/Longitude: [] GPS (unit make/model: _____) (WAAS enabled? [] Yes [] No) [X] Land Survey [] Topographic Map [] Online Mapper

6 Elevation 1056.45 ft [] Ground Level [X] 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 5 [] Public Water Supply: well ID 6 [] Dewatering: how many wells? 7 [] Aquifer Recharge: well ID 8 [X] Monitoring: well ID MW12 9 Environmental Remediation: well ID [] Air Sparge [] Soil Vapor Extractor [] Recovery [] Injection 10 [] Oil Field Water Supply: lease _____ 11 Test Hole: well ID [] Cased [] Uncased [] Geotechnical 12 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 [X] No If yes, date sample was submitted: _____ Water well disinfected? [] Yes [X] No

8 TYPE OF CASING USED: [] Steel [X] PVC [] Other _____ CASING JOINTS: [] Glued [] Clamped [] Welded [X] Threaded Casing diameter 2 in. to 3 ft, Diameter _____ in. to _____ ft, Diameter _____ in. to _____ ft, Casing height above land surface -0.50 in. Weight _____ lbs./ft. Well thickness or gauge No _____ TYPE OF SCREEN OR PERFORATION MATERIAL: [] Steel [] Stainless Steel [] Fiberglass [X] PVC [] Brass [] Galvanized Steel [] Concrete tile [] None used (open hole) [] Other (Specify) _____ 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 3 ft. to 13 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft, GRAVEL PACK INTERVALS: From 2 ft. to 13 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft,

9 GROUT MATERIAL: [] Neat cement [] Cement grout [X] Bentonite [X] Other Concrete: 0-1' Grout intervals: From 1 ft. to 2 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? SW Distance from well? ~300 ft

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-0.5 Gravel, 0.5-10 Silty clay, 10-13 Fossiliferous limestone.

Notes: KDHE ID: Mac's 66 Service; U4-046-12100 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, [] reconstructed, or [] plugged under my jurisdiction and was completed on (mo-day-year) 6/28-29/2017 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) 9/12/17 under the business name of Larsen & Associates, Inc. Signature _____

DENNIS L HANDKE

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TOPEKA, KANSAS 66618
785-286-4047 Home
785-217-5864 Cell

Jessica Chapman
Larsen & Associates
1311 E. 25th Street, Suite B
Lawrence, Kansas, 66046

September 5, 2017

RE: Monitor Well Elevation Survey
8139 Metcalf Ave, Overland Park, Kansas

Proj. 17-0AA
Mac's 66 Service
U4-046-12100

Bnch Mark: Chiseled Square on North center of West concrete pump island.
Elev: 1067.81 North 3416 West 5250 (from SE Cor. Sec. 29-12-25E)

MW-10	rim	1064.80	North	3511	SW1/4,NW1/4,SW1/4,NW1/4	
	top pipe	1064.42	West	5260	Lat= 38.98091	Long = 94.66754
MW-11	rim	1061.89	North	3579	SW1/4,NW1/4,SW1/4,NW1/4	
	top pipe	1061.57	West	5128	Lat= 38.98110	Long = 94.66708
MW-12	rim	1056.95	North	3557	SE1/4,NW1/4,SW1/4,NW1/4	
	top pipe	1056.45	West	4924	Lat= 38.98104	Long = 94.66636
MW-13	rim	1058.88	North	3349	SE1/4,NW1/4,SW1/4,NW1/4	
	top pipe	1058.60	West	4909	Lat= 38.98047	Long = 94.66631
MW-14	rim	1061.70	North	3280	NW1/4,SW1/4,SW1/4,NW1/4	
	top pipe	1061.30	West	4954	Lat= 38.98028	Long = 94.66646
MW-15	rim	1053.18	North	3340	SE1/4,NW1/4,SW1/4,NW1/4	
	top pipe	1052.88	East	4764	Lat= 38.98044	Long = 94.66580
MW-16	rim	1063.35	North	3124	NE1/4,SW1/4,SW1/4,NW1/4	
	top pipe	1062.91	East	4946	Lat= 38.97985	Long = 94.66643

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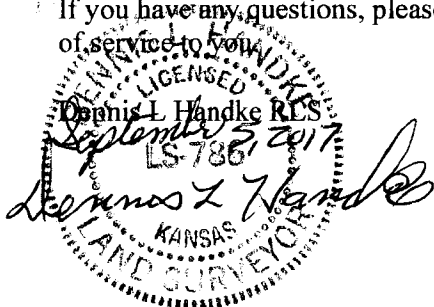
SEP 12 2017

BUREAU OF WATER

Elevation derived from existing project.

Lat & Long derived from Lenexa 7.5 Quad Map

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



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.

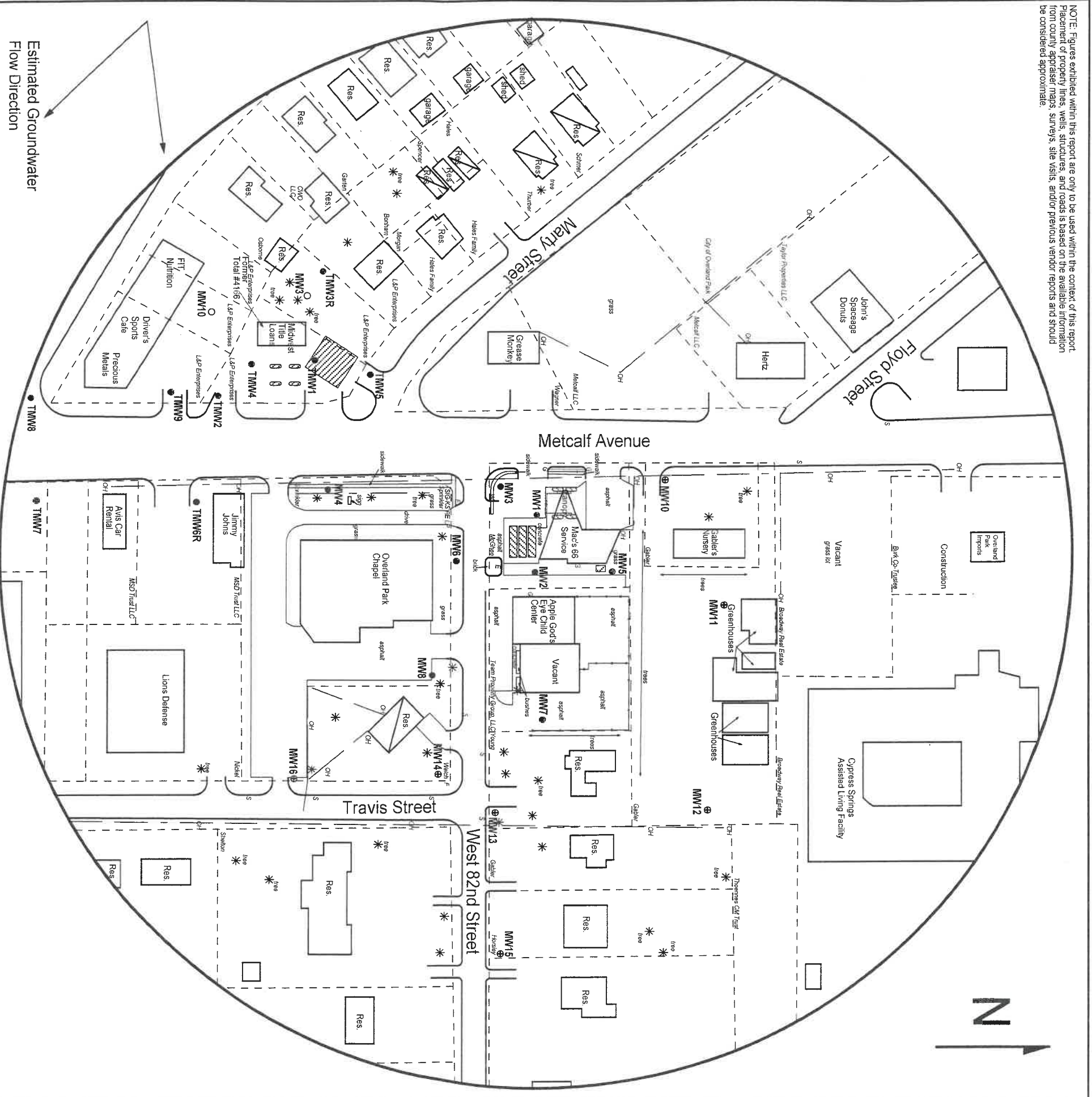


FIGURE 2.2 - 600 FT RADIUS AREA BASE MAP
















larsen
 & ASSOCIATES, INC.

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

PROJECT:

Mac's 66 Service
 8139 Metcalf Ave
 Overland Park, KS
 KDHE ID: U4-046-12100
 Date: 8/24/17

LEGEND:

-  Approximate Location of Active UST Basins,
-  Product Lines and Pump Islands
-  Approximate Location of Former UST Basins, and Pump Islands
-  Approximate Location of Former Waste Oil UST
-  Building with Basement
-  Existing Monitoring Well
-  Plugged Well
-  Monitoring Well (Installed 6/27-30/17)
-  Electric Meter
-  Fire Hydrant
-  Sewer Inlet
-  Water Meter
-  Gas Lines (2 - 6 ft BGS)
-  Overhead Lines (25-40 ft high)

OH Overhead Lines (25-40 ft high)
 NOTE: TMW1, TMW2, TMW3R, TMW4, TMW5, TMW6R, TMW7, TMW8 & TMW9 are associated with Total #4156 (U4-046-13341).
 NOTE: Utility depths, heights, and locations are approximate.
 NOTE: Approximate location of former product lines is unknown.

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 OCT 12 2017
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