

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

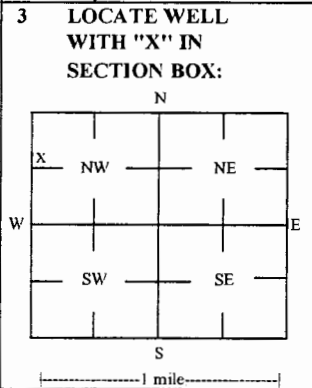
Well ID

MW5

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County Doniphan Fraction SE 1/4 SW 1/4 NW 1/4 NW 1/4 Section Number 31 Township Number T 3 S Range Number R 23 E W

2 WELL OWNER: Last Name: Business: Affiliated Foods Midwest Coop Inc. Address: 1301 Omaha Ave., City Norfolk State: NE ZIP: 68701 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): 1301 Oak Street, Elwood, KS



4 DEPTH OF COMPLETED WELL: 20 ft Depth(s) Groundwater Encountered: 1) 20 ft 2) 3) 4) Dry Well WELL'S STATIC WATER LEVEL: 14.49 ft X below land surface, measured on (mo-day-yr) 1/31/18

5 Latitude: 39.75193 (decimal degrees) Longitude: 94.88669 (decimal degrees) Horizontal Datum: WGS 84 NAD 83 X NAD 27 Source for Latitude/Longitude: GPS (unit make/model): (WAAS enabled? Yes No) X Land Survey Topographic Map Online Mapper

6 Elevation 816.42 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 2 Public Water Supply: well ID 3 Dewatering: how many wells? 4 Aquifer Recharge: well ID 5 Monitoring: well ID MW5 6 Environmental Remediation: well ID Air Sparge Soil Vapor Extractor Recovery Injection 7 Oil Field Water Supply: lease 8 Test Hole: well ID Cased Uncased Geotechnical 9 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 10 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.30 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) 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 10 ft. to 20 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 8 ft. to 20 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 8 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? W Distance from well? ~130 ft

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows show depth intervals and lithology: 0-0.4 Topsoil, 0.4-4.5 Clayey silt, 4.5-11 Silt w/ fine sand, 11-17 Fine sand, 17-20 Silt w/ fine sand.

Notes: KDHE ID: Affiliated Carriers, Inc.; A4-022-40480 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) 1/29/18 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) 2/22/18 under the business name of Larsen & Associates, Inc. Signature

Mail 1 white copy along with a fee of \$5.00 for each constructed well to: Kansas Department of Health and Environment, Bureau of Water, GWIS Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Mail one to Water Well Owner and retain one for your records. Telephone 785-296-5524

# DENNIS L HANDKE

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

February 17, 2018

RE: Monitor Well Elevation Survey  
1301 Oak Street, Elwood, Kansas

Proj. 18-00D  
Affiliated Carriers, Inc  
A4-022-40480

Bench Mark: Square cut on South edge of concrete light base South of guard shack.  
Elev: 817.63 North 4060 East 543 (from SW Cor. Sec. 31-3-23E)

MW-1	rim	815.48	North	4051	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	815.14	East	489	Lat= 39.75193 Long = 94.88703
MW-2	rim	817.08	North	4256	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	816.78	East	469	Lat= 39.75249 Long = 94.88711
MW-3	rim	816.48	North	4139	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	816.12	East	536	Lat= 39.75217 Long = 94.88687
MW-4	rim	816.98	North	4341	NE1/4,SW1/4,NW1/4,NW1/4
	top pipe	816.68	East	422	Lat= 39.75272 Long = 94.88728
MW-5	rim	816.72	North	4050	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	816.42	East	585	Lat= 39.75193 Long = 94.88669
MW-6	rim	817.49	North	4171	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	817.12	East	432	Lat= 39.75226 Long = 94.88724

There is no SE corner of Section 31. The corner fell into the Missouri River in 1856 when the sections were laid out. Therefore everything is calculated from the SW corner of Section 31.

Lat & Long derived from Wathena 7.5' quad map. NAVD 27

Elevation established from USGS BM N 106.

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

February 17, 2018  
Dennis L Handke  
Kansas Land Surveyor

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BUREAU OF WATER

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.

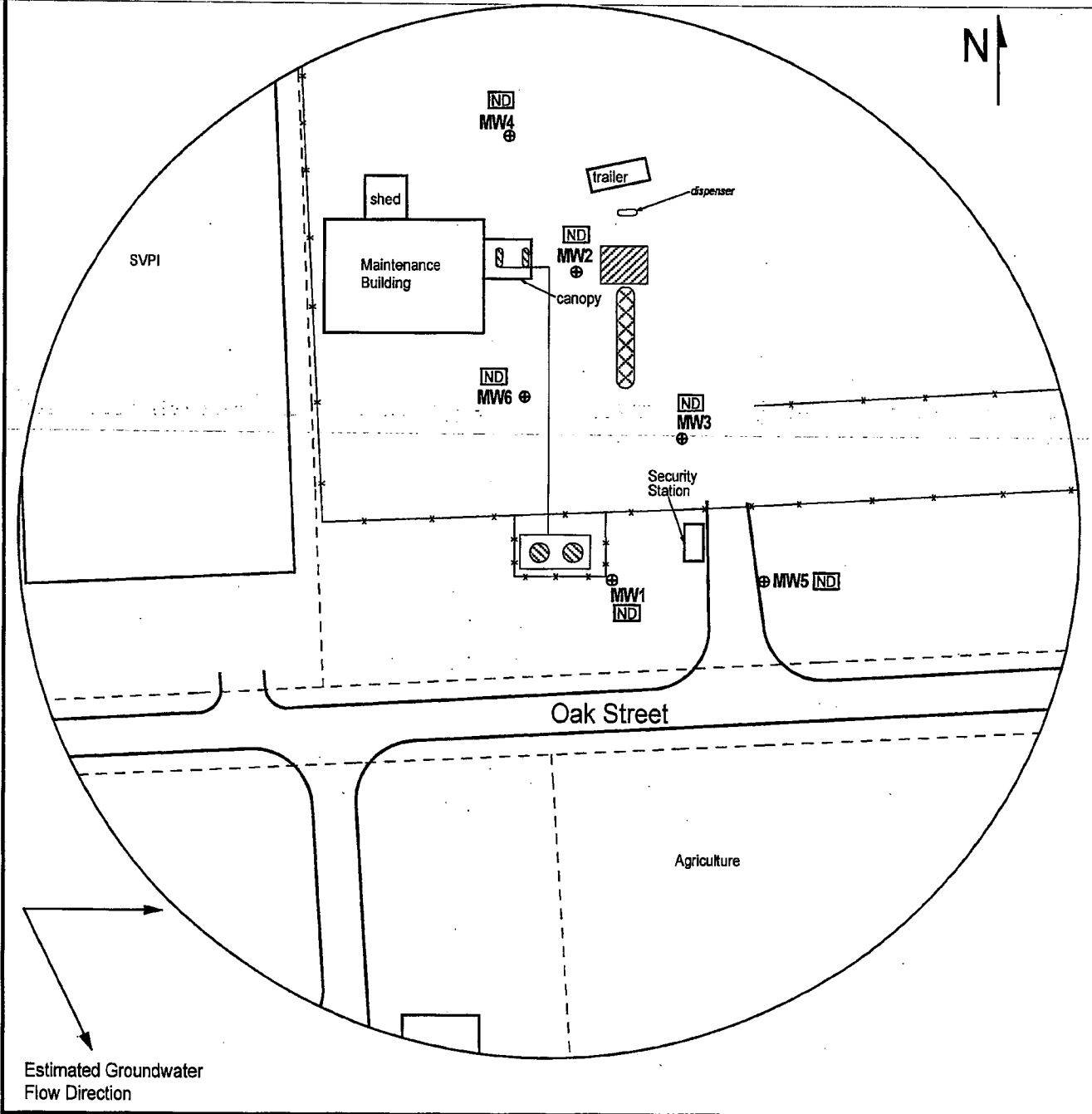


FIGURE 5.1 - GROUNDWATER ISOCONCENTRATION MAP: TOTAL BTEX IN WELLS

- LEGEND:**
- Possible Location of Former UST Basin
  - Location of Active Diesel ASTs, Product Lines and Pump Island
  - Approximate Location of Former AST Containing Water
  - Approximate Location of Property Line
  - Monitoring Well (Installed 1/29-30/18)
  - Total BTEX Concentration (ppb)



**PROJECT:**  
 Affiliated Carriers, Inc.  
 1301 Oak Street  
 Elwood, KS  
 KDHE ID: A4-022-40480  
 Date: 1/31/18



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