WATER WELL RECORD Form WWC-5

Division of Water Resources App. No. _____

1 LOCATION OF WATER WELL: County: Cherokee | Fraction: NW ¼ SW ¼ SW ¼ SE ¼ | Section Number: 34 | Township No.: T 31 S | Range Number: R 24 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
307 S. Lincoln Street, Weir, KS

Global Positioning System (GPS) information:
Latitude: 37.3074722 (in decimal degrees)
Longitude: -94.7740555 (in decimal degrees)
Elevation: 96.89 arbitrary onsite benchmark used
Datum: ☑ WGS 84, ☐ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin/Etrex)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☐ 3-5 m, ☑ 5-15 m, ☐ >15 m

2 WATER WELL OWNER:
RR#, Street Address, Box #: MFA Incorporated
City, State, ZIP Code : 201 Rav Young Drive, Columbia, MO 65201

3 LOCATE WELL WITH AN "X" IN SECTION BOX:

N / W / E / S — NW, NE, SW, SE
|---------1 mile---------|

4 DEPTH OF COMPLETED WELL 10.2 ft.
Depth(s) Groundwater Encountered (1) NA ft. (2) ..... ft. (3) ..... ft.
WELL'S STATIC WATER LEVEL NA ft. below land surface measured on mo/day/yr. 2/9/2010
Pump test data: Well water was NA ft. after ..... hours pumping ..... gpm
EST. YIELD NA gpm. Well water was ..... ft. after ..... hours pumping ..... gpm
Bore Hole Diameter 8.25 in. to 10.2 ft., and ..... in. to ..... ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☐ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☑ Monitoring well MW-3
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted. NA
Water well disinfected? ☐ Yes ☑ No

5 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other .....
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter 2 in. to 10.2 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface 0 in., Weight ..... lbs./ft., Wall thickness or gauge No. .....
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☑ PVC ☐ Other (Specify) .....
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☐ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☐ Wire wrapped ☐ Saw cut ☐ Other (specify) .....
SCREEN-PERFORATED INTERVALS: From 5.2 ft. to 10.2 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From ..... ft. to ..... ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other .....
Grout Intervals: From 0.5 ft. to 4.2 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☐ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☐ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☑ Fertilizer storage ☐ Oil well/gas well .....
Direction from well northeast Distance from well 20 feet

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0'	0.5'	Concrete			
0.5'	2'	gravel			
2'	8'	gray clay w/ orange-brown mottling			
8'	10.2'	gray clay			

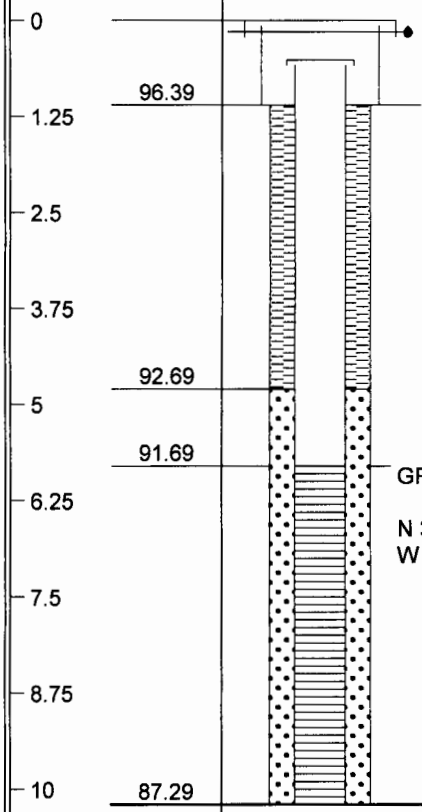
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo/day/year) 2/9/2010 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 772 This Water Well Record was completed on (mo/day/year) 2/15/2010 under the business name of Barker Lemar Engineering Consultants by (signature) .....

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☑ White Copy, ☐ Blue Copy, ☐ Pink Copy

SOIL BORING LOG & MONITORING WELL CONSTRUCTION DIAGRAM

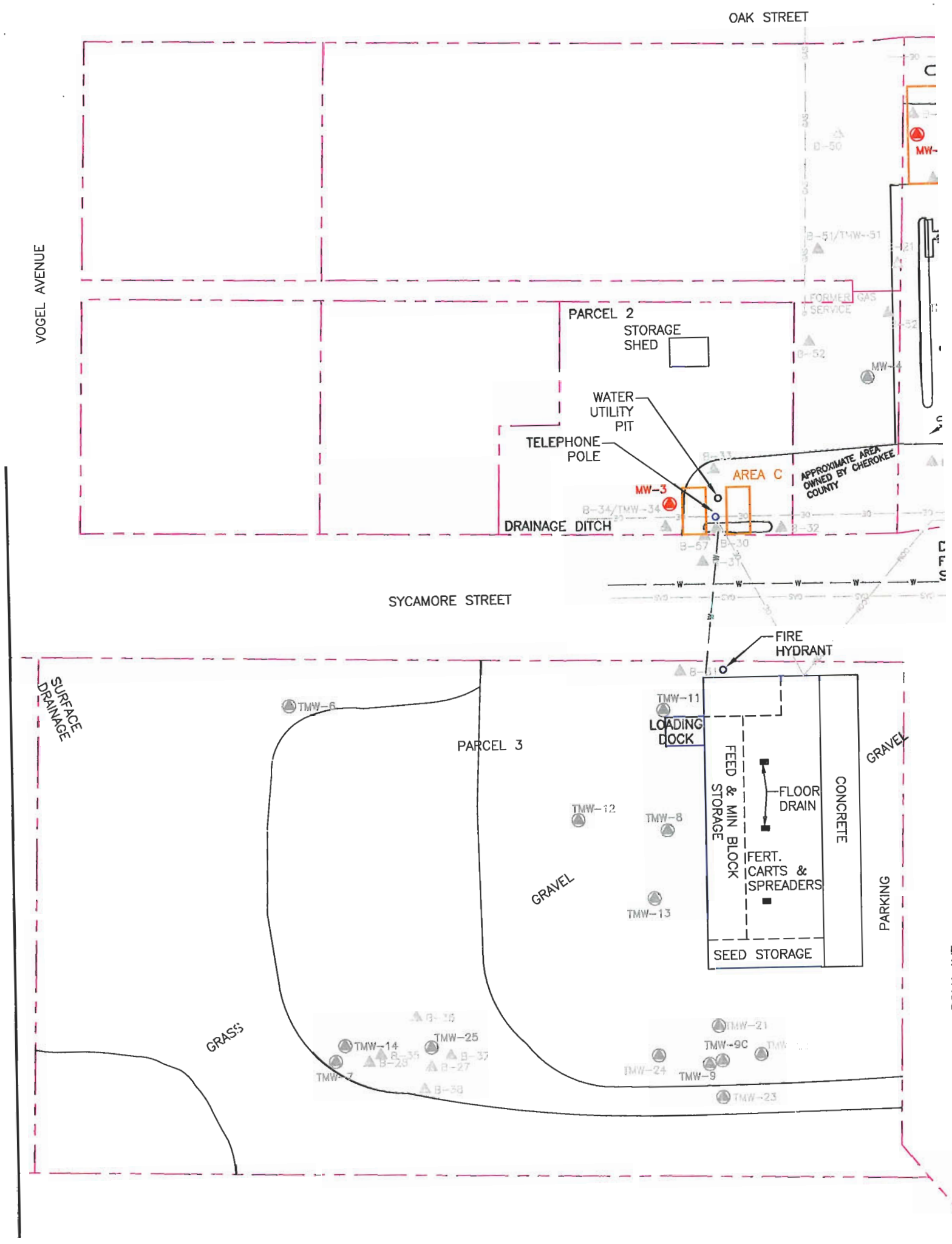
Boring / Well Number: **MW-3 (0144216)**	Facility Name: **Former Cash Grain - MFA Weir**	Facility Street Address: **307 S. Lincoln Street, Weir, KS**
Boring Depth (ft) X Diameter (in): **10.2' x 8.25"**		Drilling Method: **Hollow Stem Auger**
Well Contractor Name: **Sid Juwarker** Registration Number: **772**		Logged By: **Leah Calvert**
Ground Surface Elevation (ASL): **97.49**		Top of Casing Elevation (ASL): **96.89**
Date: **2/9/2010** Start Time: **11:00 am**	Date **2/9/2010** End Time: **11:50 am**	UST Number / LUST Number

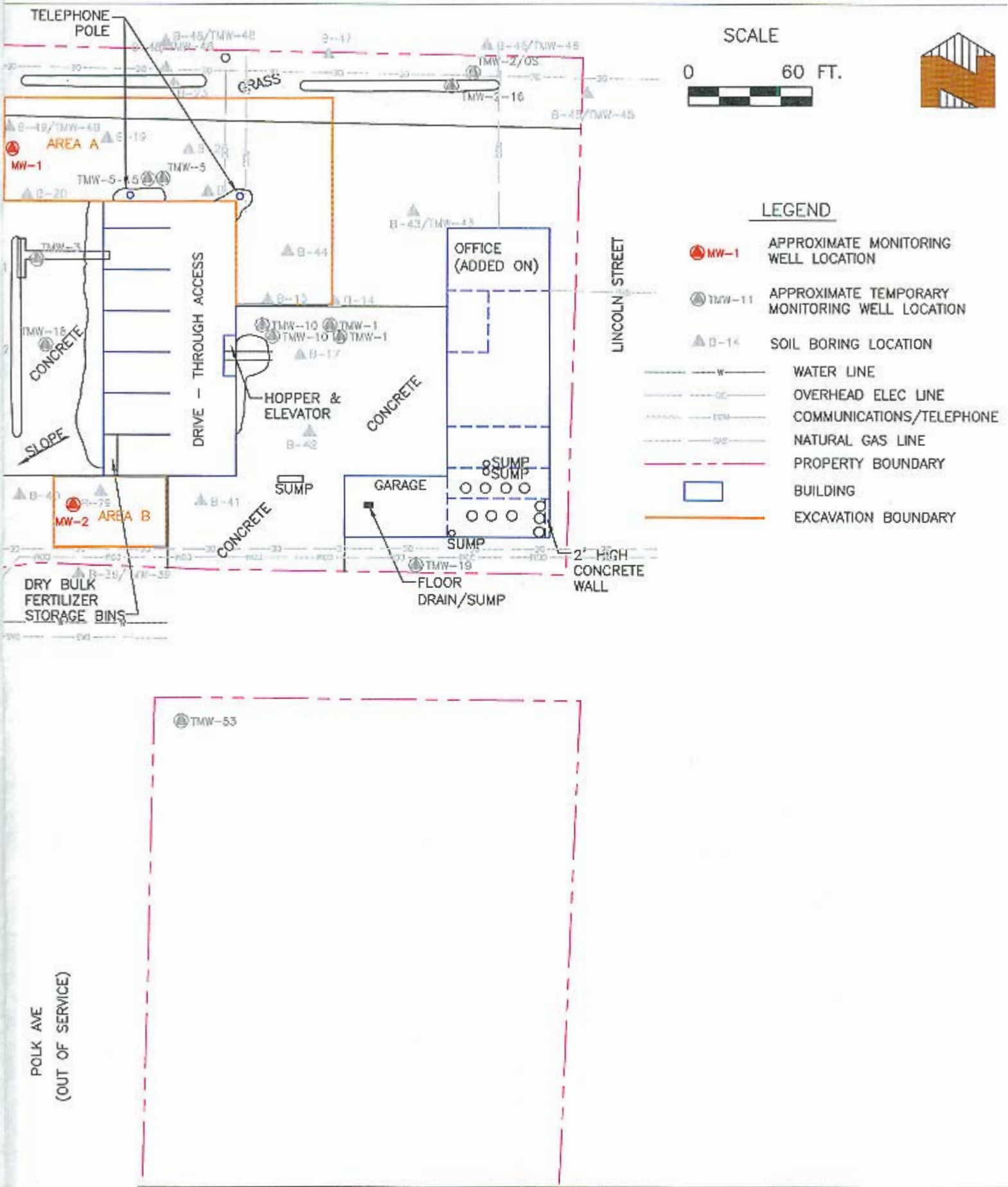


Depth Feet	Well Construction Details	Blow Count if applicable	Sample No.	Sample Type*	PID/FID Reading	Rock Formations, Soil Color and Classifications, Observations (moisture, odor, etc.) First column for USCS	
						CL	0 - 2' dark brown silty clay
						CL	2 - 8' gray clay with orange-brown mottling, mottling decreases with depth, moisture decreases with depth
						CL	8 -10.2' gray clay , trace silt, very dry, trace orange-brown mottling
							Bottom of Boring at 10.2 feet

* SS (split spoon) HS (hollow stem auger) HA (hand auger)

Observations	Date:	**2/9/2010**				
Water Levels (ASL)	Level:					
Static Water Level Symbol ▼	Time:	**No Water**				


OAK STREET
VOGEL AVENUE
PARCEL 2
STORAGE SHED
WATER UTILITY PIT
TELEPHONE POLE
MW-3
AREA C
APPROXIMATE AREA OWNED BY CHEROKEE COUNTY
DRAINAGE DITCH
SYCAMORE STREET
FIRE HYDRANT
SURFACE DRAINAGE
PARCEL 3
TMW-6
TMW-11
LOADING DOCK
FEED & MIN BLOCK STORAGE
FLOOR DRAIN
CONCRETE
GRAVEL
PARKING
TMW-12
TMW-8
FERT. CARTS & SPREADERS
TMW-13
SEED STORAGE
GRASS
TMW-14
TMW-25
TMW-7
TMW-21
TMW-9C
TMW-24
TMW-9
TMW-23



UPDATED SITE MAP
FORMER CASH GRAIN
307 S. LINCOLN, WEIR, KS
PROJECT NO. MFAIN WE006
FEBRUARY 2010

BARKER LEMAR
ENGINEERING CONSULTANTS
1801 Industrial Circle - West Des Moines, Iowa - 50265
Phone: 515.256.8814 - Fax: 515.256.0152 - www.barkerlemar.com

FIGURE
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