

WATER WELL RECORD Form WWC-5

Original Record Correction Change in Well Use

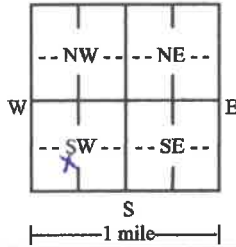
Division of Water Resources App. No.

Well ID

1 LOCATION OF WATER WELL: County: Johnson Fraction 1/4 NE 1/4 SW 1/4 SW 1/4 Section Number 8 Township Number T 13 S Range Number R 22 E W

2 WELL OWNER: Last Name: Sunflower First: AAP Business: US Army Corp of Engineers - KCD Address: 635 Federal Building Address: 601 East 12th Street City: Kansas City State: MO ZIP: 61406 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: Sunflower Redevelopment, LLC 105345 W. 103rd Street, DeSoto, KS66019

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



4 DEPTH OF COMPLETED WELL: 10.0 ft. Depth(s) Groundwater Encountered: 1) 11.21 ft. 2) N/A ft. 3) N/A ft. 4) Dry Well WELL'S STATIC WATER LEVEL: 11.21 ft. below land surface, measured on (mo-day-yr) 1-12-21 Pump test data: Well water was N/A ft. after N/A hours pumping N/A gpm Well water was N/A ft. after N/A hours pumping N/A gpm Estimated Yield: N/A gpm Bore Hole Diameter: 8.25 in. to 6.0 ft. and 6.0 in. to 10.0 ft.

5 Latitude: 38.9298052 (decimal degrees) Longitude: -94.9992733 (decimal degrees) Horizontal Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model: (WAAS enabled? Yes No) Land Survey Topographic Map Online Mapper:

6 Elevation: 914.48 ft. Ground Level TOC Source: 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? Aquifer Recharge: well ID Monitoring: well ID 051-BMPZ006 Environmental Remediation: well ID Air Sparge Soil Vapor Extraction Recovery Injection Oil Field Water Supply: lease Test Hole: well ID Cased Uncased Geotechnical 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 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 N/A in. to N/A ft., Diameter N/A in. to N/A ft. Casing height above land surface 30 in. Weight N/A lbs./ft. Wall thickness or gauge No. Sch. 40

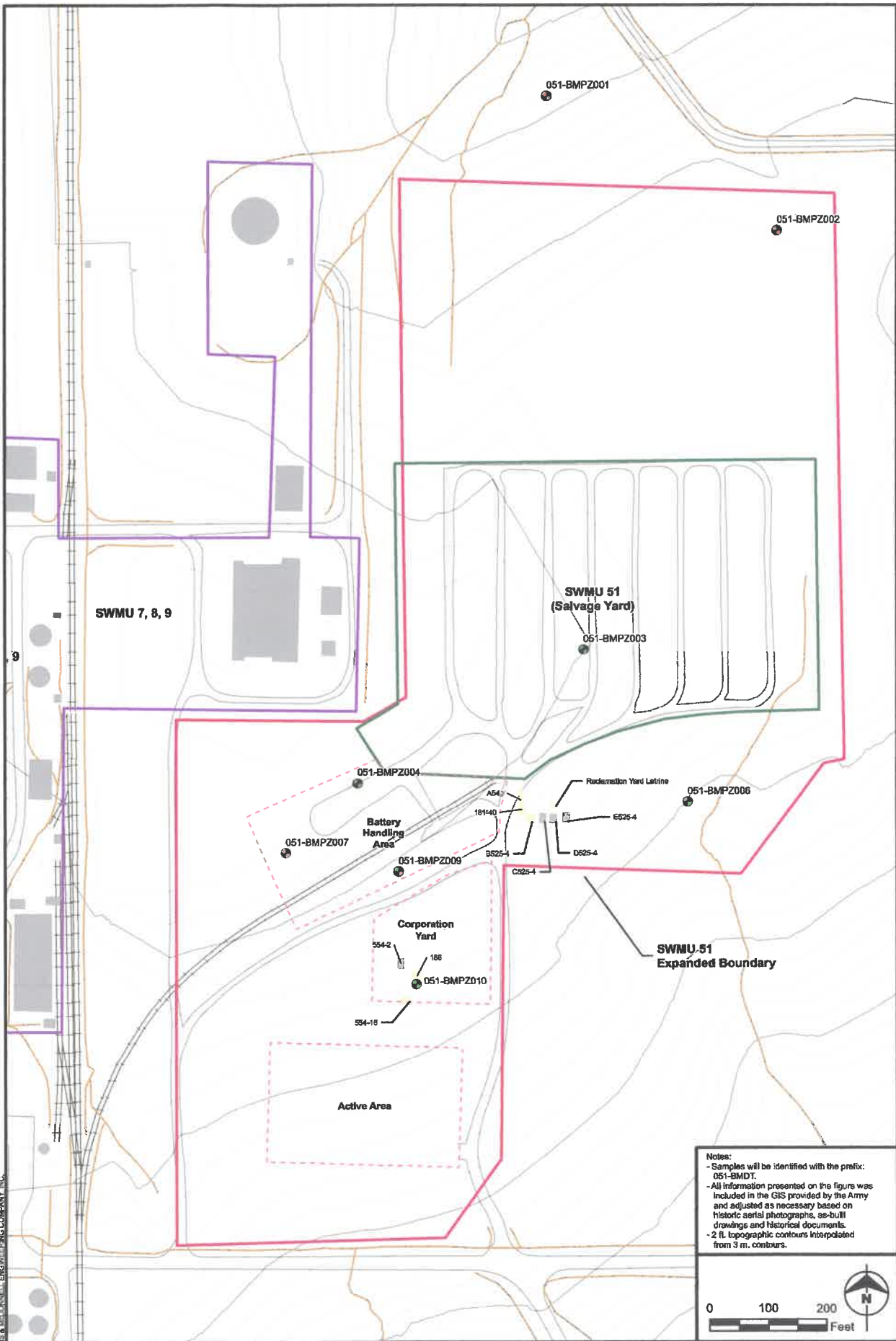
TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Other (Specify) Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole) SCREEN-PERFORATED INTERVALS: From 5.0 ft. to 10.0 ft., From N/A ft. to N/A ft., From N/A ft. to N/A ft. GRAVEL PACK INTERVALS: From 4.0 ft. to 10.0 ft., From N/A ft. to N/A ft., From N/A ft. to N/A ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Concrete 0 to 2 Grout Intervals: From 2 ft. to 4.0 ft., From N/A ft. to N/A ft., From N/A ft. to N/A 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? Distance from well? ft.

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Row 1: Detailed boring logs attached. Row 2: Notes.

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) and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 759 This Water Well Record was completed on (mo-day-year) 8/22/2021 under the business name of RAZEK Environmental, LLC. Signature



Path: Z:\CHEN\ENR\USCCE119848_EFAP\019848\Subarea\Consolidated\Drawings\AcDoc\SWMU 51\Report\SAAP_SWMU51_Fig_Final Disposition.mxdewoodland
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Notes:
 - Samples will be identified with the prefix: 051-BMDT
 - All information presented on the figure was included in the GIS provided by the Army and adjusted as necessary based on historic aerial photographs, as-built drawings and historical documents.
 - 2 ft. topographic contours interpolated from 3 m. contours.



Legend		Site Designations		Drainage Features	
●	Abandon	—	SWMU 7, 8, 9 Boundary	—	Drainage Ditch
●	Construct	—	SWMU 51 Boundary	—	Topographic Contour
		—	Account Classification	—	2 ft
		—	Non-RCRA Account	—	10 ft
		—	RCRA - RFI Account	—	
		—	SWMU 51 Expanded Boundary	—	
		—	Transportation	—	
		—	Paved Road	—	
		—	Railroad	—	



Figure
Final Disposition
SWMU 51
 Former Sunflower Army
 Ammunition Plant
 De Soto, Kansas

HTW DRILLING LOG							HOLE NO 051-BMP2006	
1. COMPANY NAME Burns & McDonnell			2. DRILLING SUBCONTRACTOR RAZEK			SHEET 1 OF 2 SHEETS		
3. PROJECT SEAAP RPLs				4. LOCATION KANSAS				
5. NAME OF DRILLER Tony Pulter				6. MANUFACTURER'S DESIGNATION OF DRILL GEORGE				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT			8 1/4 inch HSA			8. HOLE LOCATION SWNU 51		
			6 inch air rotary			9. SURFACE ELEVATION		
						10. DATE STARTED 1/5/2021		
						11. DATE COMPLETED 1/5/2021		
12. OVERBURDEN THICKNESS 6 ft				15. DEPTH GROUNDWATER ENCOUNTERED NA				
13. DEPTH DRILLED INTO ROCK 5 ft				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED				
14. TOTAL DEPTH OF HOLE 11 ft				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				
18. GEOTECHNICAL SAMPLES		DISTURBED NA	UNDISTURBED NA		19. TOTAL NUMBER OF CORE BOXES NA			
20. SAMPLES FOR CHEMICAL ANALYSIS NA		VOC NA	METALS NA	OTHER (SPECIFY) NA	OTHER (SPECIFY) NA	OTHER (SPECIFY) NA	21. TOTAL CORE RECOVERY NA %	
		BACKFILLED NA	MONITORING WELL NA Temp	OTHER (SPECIFY) NA	23. SIGNATURE OF INSPECTOR Blue PJ			
22. DISPOSITION OF HOLE Monitoring well NA cr								
ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	Clay with silt, very dark gray (7.5 yr 2/3), medium plasticity medium stiff, damp		0.0				ORES START MACROCORE SAMPLING
	1			0.0				5 of SA
	2	CLAY with silt, brown (7.5 yr 4/3) medium to high plasticity, medium stiff, damp		0.0				
	3	SILT with clay, brown (7.5 yr 4/4) trace plasticity, stiff, damp		0.0				PID 0.0 LEL 0.0 O ₂ 20.9
	4			0.0				
	5	SHALE weathered, medium plasticity light olive brown (54 5/6)		0.0				0930

HTW DRILLING LOG

HOLE NO. 051-8MP2006

PROJECT SPAAP RFLs

INSPECTOR *(Signature)*

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	5	SHALE, highly weathered, light olive brown (54%), medium plasticity, damp	0-0				
	6	LIMESTONE, dusky yellow (54%) dry	0-0				0933 HT REFRAL 0935 HSA START 0941 HSA REFRAL 0951 START AIR ROTARY
	7						
	8						1005
	9						
	10						
	11						End Boring 1016
	12						
	13						
	14						