WATER WELL RECORD (WWC-5)

Constructed

KOLAR DOC ID 1805110 WELL ID 057MW014

✓ Original Record ☐ Correction ☐ Change in Well Use

LOCATION OF WATER WELL

Latitude	38.93362	Longitude	-95.012497	Section	7	Township	13	Range	22 ✓E ☐W	Fraction	NE ¼ NE ¼ SW ¼
Datum	WGS84	Elevation	956	County	Johnson						

WATER WELL OWNER

Name	
Business	Sunflower Redevelopment, LL(
Address	10345 West 103rd St. De Soto Kans 66019
Well location ☐ at owner's address	Former Sunflower Army Ammunition Plant - SWMU 57 De Soto, KS

CONSTRUCTION

Borehole interval: from 0 to 34 ft. from ____ to ____ ft.

Borehole diameter: 7.25 in. ____ in.

Casing height above land surface: 30 in.

If casing height is less than 12 in. has a variance been approved?* ☐ Yes ✓ No

*variance not required for monitoring or environmental remediation wells

Casing type: ThermalPlastic

Blank casing interval: 0 ft. to 19 ft.

Blank casing diameter: 2 in.

Casing joints: Threaded

Weight: ____ lbs/ft.

Wall thickness or gauge no.: 40

Blank casing interval: ____ ft. to ____ ft.

Blank casing diameter: ____ in.

Casing joints: ____

Weight: ____ lbs/ft.

Wall thickness or gauge no.: ____

Grout interval: 2 ft. to 14 ft.

Grout material: Bentonite

Grout interval: ____ ft. to ____ ft.

Grout material: ____

Screen / perforation material: PVC

Screen / perforation openings: Mill slot

Screen / perforation intervals:

From 19 ft. to 34 ft.

Slot size .01 unit inches

From ____ ft. to ____ ft.

Slot size ____ unit ____

Gravel pack intervals:

Gravel pack not used: ☐ Gravel size ____ in

From 14 ft. to 34 ft.

Gravel pack not used: ☐ Gravel size ____ in

From ____ ft. to ____ ft.

WELL WATER USE

Environmental Remediation / Monitoring Mc

COMPLETION

Depth of completed well: 34 ft.

Depth(s) groundwater encountered:

(1) 31 ft.; (2) ____ ft.;

(3) ____ ft.; (4) ☐ dry well

Static water level in well: 31.15 ft.

✓ measured below land surface on (mm/dd/yy): 09/13/2024

☐ measured above land surface on (mm/dd/yy): ____

Estimated yield: ____ gpm

Water level was: ____ ft. after ____ hours pumping ____ gpm

Pump installed? ☐ Yes ✓ No

Water well disinfected? ☐ Yes ☐ No

Date disinfected (mm/dd/yy): ____

Aquifer, if known:

NEAREST SOURCE OF POTENTIAL CONTAMINATION

Source: ____

Distance from well: ____ Direction from well: ____

Source description: ____

Source: ____

Distance from well: ____ Direction from well: ____

Source description: ____

☐ No potential source of contamination within 100 feet.

PERMIT & ID NUMBERS (AS REQUIRED)

DWR Application No.: ____

KDHE / EPA Project Code: C404671060

Site Name: SWMU 57

KDHE UIC Class V Form Completed: ☐ Yes ✓ No

County Permit: ☐ Yes ✓ No Permit ID: ____

Lease Name & Well #: ____

# of boreholes: ____ # of dewatering wells: ____

LITHOLOGIC LOG

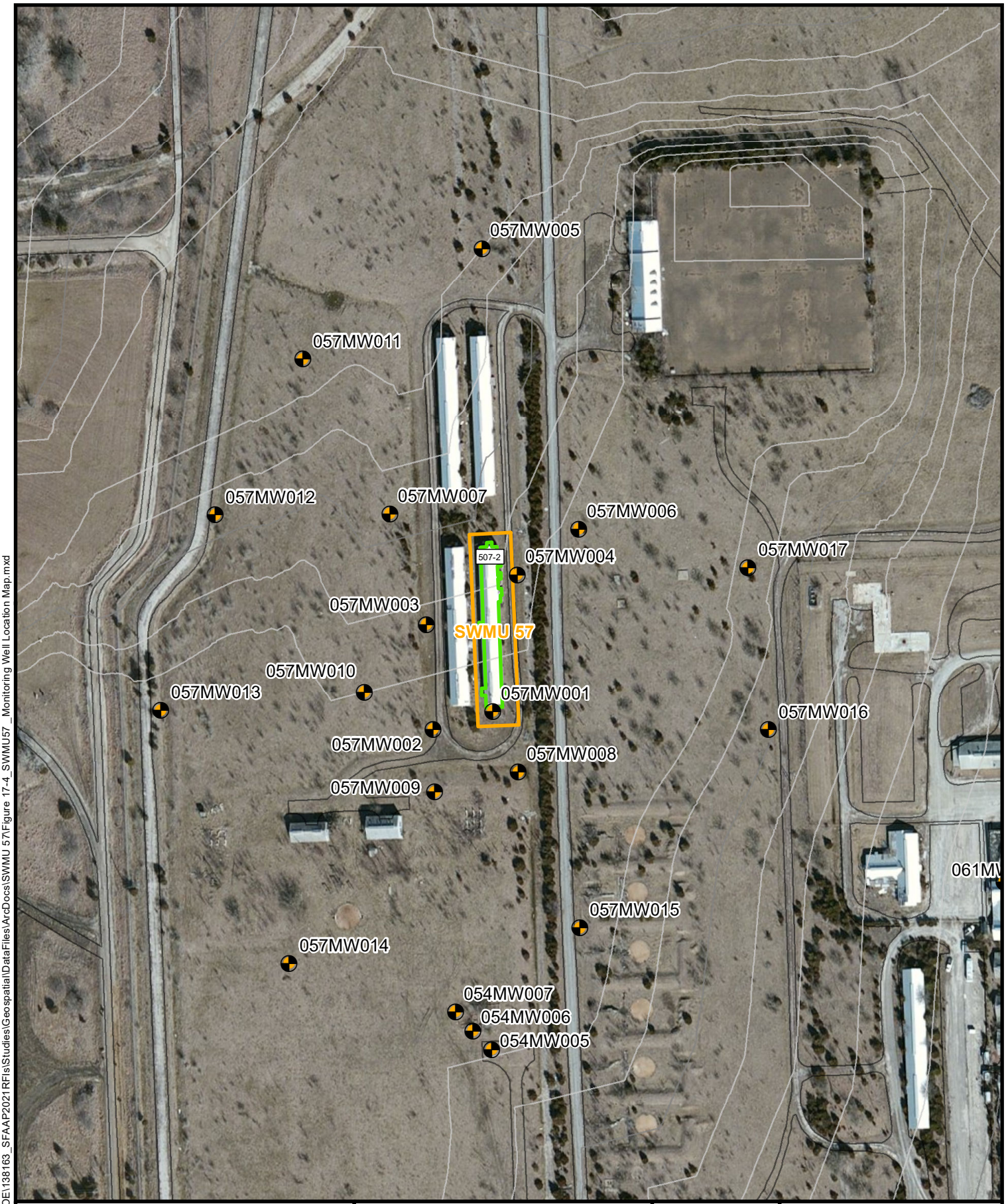
FROM	TO	LITHOLOGY INTERVALS
0	34	clay

COMMENTS

CONTRACTOR'S OR LANDOWNERS CERTIFICATION

This water well was constructed ✓ reconstructed ☐ pursuant to the stated water well contractor's license and was completed on 09/13/2024. I certify that this record is true to the best of my knowledge and belief. This water well record was completed on 12/08/2024 under the business name of Razek Environmental, LLC, Kansas Water Well Contractor's License No. 759 under the authority of the designated person as defined in K.A.R. 28-30-2(j) and signed and certified by the electronic signature of the designated person at its submittal: Anthony Poulter.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of $5.00 for each constructed well.



Legend

- Existing Monitoring Well
- SWMU 57
- RCRA Account
- Road

Topographic Contour

- 2 feet
- 10 feet

0 100 200

Feet

N

BURNS McDONNELL

SWMU 57 Monitoring Well Location Map

Former Sunflower Army Ammunition Plant
De Soto, Kansas

Path: Z:\Clients\ENS\USCOE\138163_SFAAP2021RFIs\Studies\Geospatial\DataFiles\ArcDocs\SWMU 57\Figure 17-4_SWMU57 _Monitoring Well Location Map.mxd

Issued: November, 15 2024

HTW DRILLING LOG

HOLE NO. 057MW14

1. COMPANY NAME Burns & McDonnell	2. DRILLING SUBCONTRACTOR RAZEK ENV., Inc.	SHEET 1 OF 5 SHEETS
3. PROJECT SFAAP	4. LOCATION SWMU 57	
5. NAME OF DRILLER T. Poulter	6. MANUFACTURER'S DESIGNATION OF DRILL GeoProbe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2-inch MacroCore Sampler; 7.25 HSA	8. HOLE LOCATION E: 2162016.7530' N: 232645.9530'	
	9. SURFACE ELEVATION 956.60'	
	10. DATE STARTED 9/6/24	11. DATE COMPLETED 9/6/24
12. OVERBURDEN THICKNESS 34.0 ft	15. DEPTH GROUNDWATER ENCOUNTERED NA	
13. DEPTH DRILLED INTO ROCK NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 9/13/24 34.30 ft btoc	
14. TOTAL DEPTH OF HOLE 34.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NA			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
NA						NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		057MW14		S. Woodland

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	SILT, with clay, ML, very dark grayish brown (10YR 3/2), damp, medium consistency, trace plasticity.	BZ = 0.0 PID LEL = 0 O_2 = 20.9 0.0	NA	NA	Recovery	Begin @ 1257
	1		0.0				
	2		0.0			4.5/5	
	3	SILT, with very fine sand, ML, gray (10YR 6/1), damp, hard consistency, non-plastic, trace oxidation.	0.0				
	4		0.0				

HTW DRILLING LOG

HOLE NO. 057MW14

PROJECT SFAAP - SWMU 57 | INSPECTOR S. Woodland | SHEET 2 OF 5 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
		SILT, very fine sand, ML, gray (10YR 6/1), damp, hard consistency, non-plastic, trace oxidation.	PID	NA	NA	Recovery	
	5		BZ = 0.0 LEL = 0 O_2 = 20.9 0.0				1259
	6		0.0				
	7	CLAY, trace very fine sand, CL, dark grayish brown (10YR 4/2), moist, hard consistency, medium plasticity, trace oxidation.	0.0			4.5/5	
	8		0.0				
	9		0.0				
	10	CLAY, trace very fine sand, CH, brown (10YR 5/3), moist, hard consistency, high plasticity, trace oxidation.	BZ = 0.0 LEL = 0 O_2 = 20.9 0.0				1302
	11		0.0			5/5	
	12		0.0				

HTW DRILLING LOG

HOLE NO. 057MW14

PROJECT SFAAP - AOC 17 | INSPECTOR S. Woodland | SHEET 3 OF 5 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
		CLAY, trace very fine sand, CH, brown (10YR 5/3), moist, hard consistency, high plasticity, trace oxidation.	PID	NA	NA	Recovery	
	13	very stiff consistency	0.0			5/5	
	14		0.0				
	15	SAND, with fines, SM, gray (10YR 6/1), fine sand, poorly graded, moist, hard consistency.	BZ = 0.0 LEL = 0 O_2 = 20.9 0.0				1308
	16		0.0				
	17		0.0			5/5	
	18		0.0				
	19		0.0				
	20		BZ = 0.0 LEL = 0 O_2 = 20.9			4/4	DP Stop @ 20.0 ft 1316

HTW DRILLING LOG

HOLE NO. 057MW14

PROJECT SFAAP - SWMU 57 | INSPECTOR S. Woodland | SHEET 4 OF 5 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
	21	SAND, with fines, SM, gray (10YR 6/1), fine sand, poorly graded, moist, hard consistency.	BZ = 0.0 LEL = 0 O_2 = 20.9	NA	NA	Recovery NA	
	22	SAND with fines, SM, gray (2.5Y 5/1), fine sand, poorly graded, moist.					
	23						
	24						
	25		BZ = 0.0 LEL = 0 O_2 = 20.9				
	26						
	27						
	28						

HTW DRILLING LOG

HOLE NO. 057MW14

PROJECT SFAAP - SWMU 57 | INSPECTOR S. Woodland | SHEET 5 OF 5 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
	30	SAND with fines, SM, gray (2.5Y 5/1), fine sand, poorly graded, moist.	BZ = 0.0 LEL = 0 O_2 = 20.9	NA	NA	Recovery NA	
	31						
	32						
	33						
	34	LIMESTONE, pale yellowish brown (10YR 6/2)					1152
		HSA Refusal @ 34.0 ft					Construct Monitoring Well
	35						
	36						
	37						