Noncommunity Public Water Supply Assessment Report For

GRACE BIBLE CHURCH

WSSN: <u>2009876</u>

Source ID: 1

What is SWAS?	WSSN: 2009876 Source ID: 1
The Source Water Assessment Score (SWAS) is a process that factors geologic and water well attributes, water chemistry, and the potential contaminant sources for each drinking water source into a ranking system to determine the relative potential for contamination. Generally, sources with lower scores are considered to be less susceptible to contamination than sources with higher scores. However, exceptions do exist. This assessment is required by the Michigan Source Water Assessment Program (SWAP) under the provisions of the 1996 amendments to the Federal Safe Drinking Water Act.	County:SANILACContactName:MIKE HOLLENBECKAddress:6480 CRANBROOKCity:MARLETTEState/Zip:MI48453
Well Log and Location A well log is a legal document describing the well location, construction, depth, soil formations penetrated, and capacity. Drilling contractors have been required to complete a well log and submit it to the owner, local health department, and State since 1967. The lack of information from a well log may increase the SWAS. Wellogic is an electronic database for well log information.	Well Log Available: N Entered in Wellogic: N Wellogic ID Number:
Geologic Sensitivity	Geologic Sensitivity - SWAS(G)
This score represents the degree of natural protection afforded by the materials overlying the water- bearing formation. Lower scores indicate more protection. Points are deducted based on the thickness and type of geologic material that overlies the source of water. Surface contaminants migrate downward at varying rates dependent upon geological material and thickness. CCM stands for Continuous	CCM Points Deducted: 0 CPCM Points Deducted: 0
Confining Material (eg. clay). CPCM stands for Continuous Partially Confining Material (eg. mix of sand and clay). More points are deducted for a thick clay layer than a thick sand layer or a thinner clay layer. Point Range 0-30.	Total SWAS(G) Points:30Geologic Sensitivity Rating:High
Well Construction	Well Construction - SWAS(W)
	Well Grouting Points: 15
Points are added when a well lacks realures that help project the water subdivition contamination	
Points are added when a well lacks features that help protect the water supply from contamination. These include whether the well was grouted (sealing the annulus that is created between the casing	· ·
These include whether the well was grouted (sealing the annulus that is created between the casing and the soil formations during construction), the well age, how deep the casing extends into the	· ·
These include whether the well was grouted (sealing the annulus that is created between the casing	Well Age Points: 15

Source Water Assessment for: GRACE BIBLE CHURCH

Water Chemistry and Isotope Data - SWAS(C) Nitrates and Nitrites: 0 SOC.VOC: 5 Tritium Results: 0 Total SWAS(C) Points: 5
Isolation from Contamination - SWAS(S)Major Sources from 75 - 800 ft: $0 \times 10 = 0$ Major Sources within 75 ft: $0 \times 20 = 0$ Standard Sources within 75 ft: $0 \times 10 = 0$ Known Sources within 800 ft: $0 \times 25 = 0$
Total SWAS(S) Points: 0 Source Water Assessment Score - SWAS
$\frac{30}{30} + \frac{45}{5} + \frac{5}{5} + \frac{0}{6} = \frac{80}{5}$ SWAS(G) SWAS(W) SWAS(C) SWAS(S) SWAS
Susceptibility Determination
Based on the above compilation of source geology, well construction, water chemistry, and potential contaminant sources, this public drinking water supply is determined to have a Susceptibility Rating of: Moderately High