Noncommunity Public Water Supply Assessment Report For		
ANTIQUES MARKET OF WILLIAMSTON WSS	N: <u>2016233</u> Source ID: <u>1</u>	
What is SWAS? The Source Water Assessment Score (SWAS) is a process that factors geo		
well attributes, water chemistry, and the potential contaminant sources for e source into a ranking system to determine the relative potential for contamir sources with lower scores are considered to be less susceptible to contamir with higher scores. However, exceptions do exist. This assessment is requ Michigan Source Water Assessment Program (SWAP) under the provisions amendments to the Federal Safe Drinking Water Act.	nation. Generally, nation than sources Name: GEORGE AND GLORIA VANDUS ired by the Address: P.O. BOX 10	
Well Log and Location A well log is a legal document describing the well location, construction, depth, soil penetrated, and capacity. Drilling contractors have been required to complete a we to the owner, local health department, and State since 1967. The lack of informatic may increase the SWAS. Wellogic is an electronic database for well log informati	ell log and submit it n from a well log Wellogic ID Number: 33000004710	
Geologic Sensitivity	Geologic Sensitivity - SWAS(G)	
This score represents the degree of natural protection afforded by the materials ov bearing formation. Lower scores indicate more protection. Points are deducted be and type of geologic material that overlies the source of water. Surface contaminant at varying rates dependent upon geological material and thickness. CCM stands for Confining Material (eg. clay). CPCM stands for Continuous Partially Confining Mate- and elaw). More points are deducted for a thick law lawer than a thick cond lawy	erlying the water- sed on the thickness nts migrate downwardCCM Points Deducted:0CPCM Points Deducted:15Total SWAS(G) Points:15	

Geologic Sensitivity Rating: Moderate

Well Construction	Well Construction - SWAS(W)
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 and the soil formations during construction), the well age, how deep the casing extends into the ground, and how much water the well pumps, since larger volumes can pull contaminants from greater distances. Point Range 0-15.	Well Grouting Points: 0
	Well Age Points: 0
	Casing Depth Points: 10
	Pumping Rate Points: 0
Susceptibility increases one level if well construction reflects an adverse condition.	Total SWAS(W) Points: 10

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.

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Water Chemistry and Isotope Data Points are added if water sample results indicate detectable levels of nitrates or nitrites, volatile organic chemicals (solvents, fuel components), and/or synthetic organic chemicals (pesticides or herbicides). Tritium monitoring is included as a voluntary means of age-dating water. Generally, the older the water, the more protected the source. Point Range 0-50. (50 points = MCL violation) Susceptibility is Very High if contaminants exceed the Maximum Contaminant Level (MCL).	Water Chemistry and Isotope Data - SWAS(C) Nitrates and Nitrites: 0 SOC.VOC: 5 Tritium Results: 0 Total SWAS(C) Points: 5
Isolation from Sources of Contamination Points are added based on the number and type of potential contaminant sources within the isolation distance (75 ft. from standard or 800 ft. from major contaminant sources). Examples of standard sources are septic tanks, sewer lines, and storm drains. Examples of major sources are chemical and fuel storage, landfills, lagoons, and known plumes of groundwater contamination.	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)	Source Water Assessment Score - SWAS
The total SWAS is factored with the Geologic Sensitivity to determine the overall susceptibility to contamination.	$\frac{15}{\text{SWAS}(G)} + \frac{10}{\text{SWAS}(W)} + \frac{5}{\text{SWAS}(C)} + \frac{0}{\text{SWAS}(S)} = \frac{30}{\text{SWAS}}$
Susceptibility Determination Susceptibility is a means to identify the relative potential of contamination for public water supply sources.	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: Moderate