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MADE IN GERMANY

SpongeBob Token

Audit

Security Assessment
12. May, 2023

For

Disclaimer

Version	Date	Description
1.0	10. May 2023	• Layout project • Automated- /Manual-Security Testing • Summary

Network
Ethereum

Website
https://sponge.vip/

Twitter
https://twitter.com/spongeoneth

Telegram
https://t.me/Spongeoneth

Discord
https://discord.com/invite/mufWAZVEhM

TikTok
https://www.tiktok.com/@spongeoneth
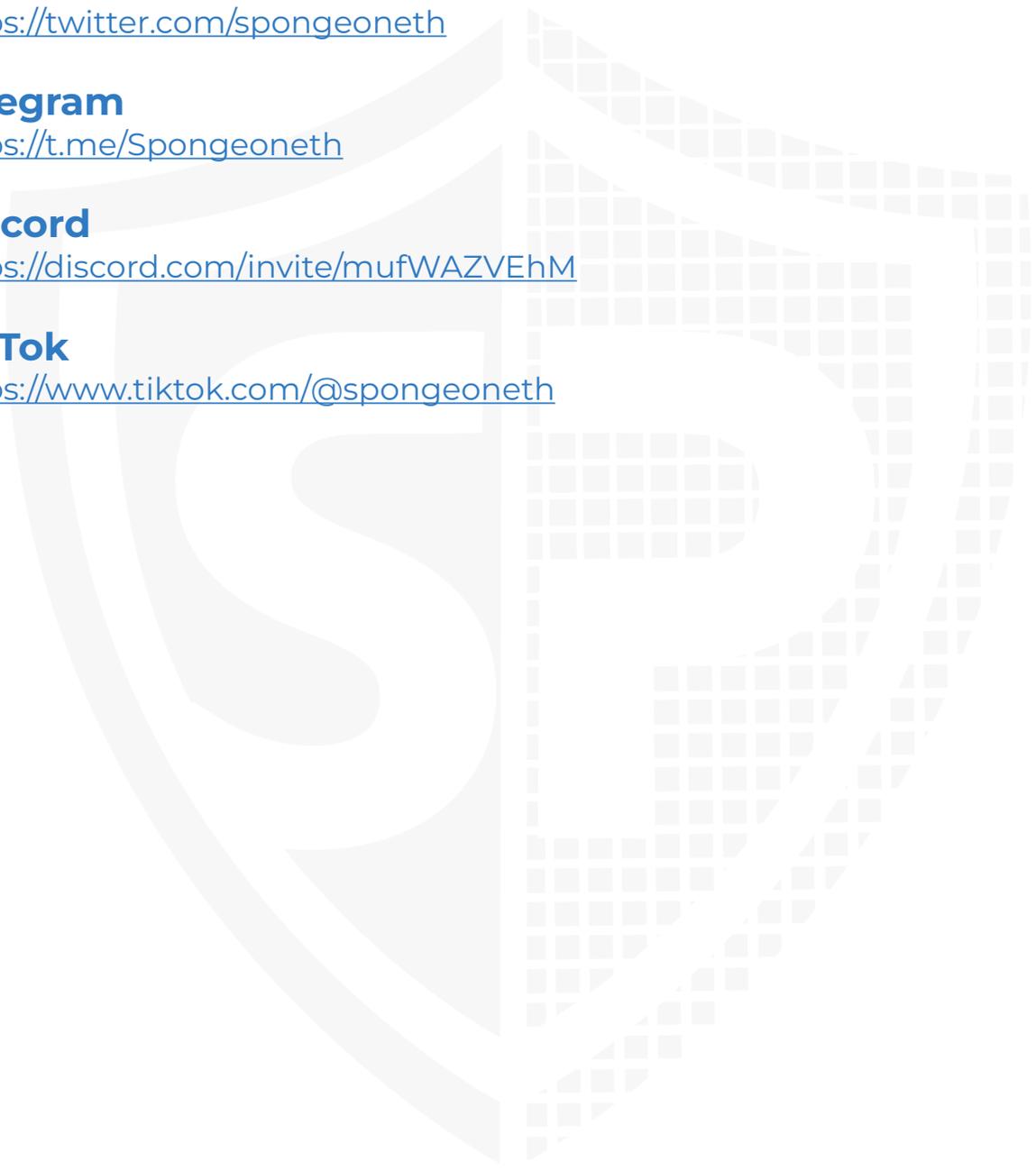
Description

$SPONGE is the No. 1 community token allowing degens to absorb the damp. Buy $SPONGE - the only meme capable of soaking up the competition!

Project Engagement

During the Date 09 of May 2023, **Sponge Token Team** engaged Solidproof.io to audit the Token smart contract that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

Logo

Contract Link
v1.0

- https://etherscan.io/token/0x25722cd432d02895d9be45f5deb60fc479c8781e#code

Note for Investors: We only Audited a simple ERC20 token contract for **Sponge Token**. However, If the project has other contracts (for example, a Presale contract etc), and they were not provided to us in the audit scope then we cannot comment on its security and we are not responsible for it in any way.

Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
Critical	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
High	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon aspossible.
Medium	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
Low	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
Informational	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

Methodology

The auditing process follows a routine series of steps:

1. Code review that includes the following:
   i)   Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
   ii) Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
   iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.

2. Testing and automated analysis that includes the following:
   i)   Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
   ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.

3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.

4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

File Name	SHA-1 Hash
contracts/Token.sol	d9cd907ac10943cecc3a615a90ee1bee307bd1d5

Metrics

Source Lines
v1.0
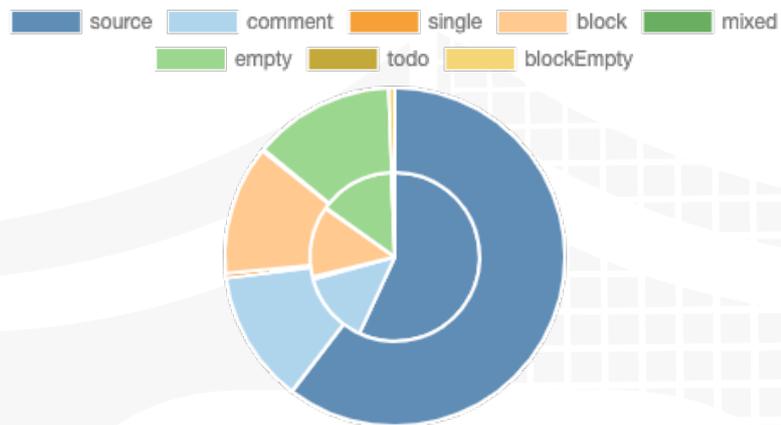
Risk Level
v1.0
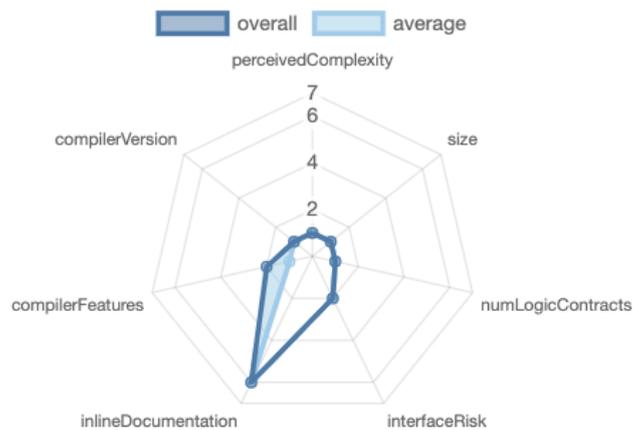
Capabilities

Components

📝Contracts	💱Libraries	🔍Interfaces	🍫Abstract
1	0	0	0

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

🌐Public	💰Payable
0	0

External	Internal	Private	Pure	View
0	1	0	0	0

StateVariables

Total	🌐Public
0	0

Capabilities

Solidity Versions observed	🖊 Experimental Features	💲 Can Receive Funds	🖥 Uses Assembly	💣 Has Destroyable Contracts
^0.8.9				

🛫Transfers ETH	⚡ Low-Level Calls	👥 DelegateCall	🎰 Uses Hash Functions	🔏 ECRecover	🌀 New/Create/Create2

♻️ TryCatch	Σ Unchecked

Inheritance Graph
v1.0

CallGraph
v1.0
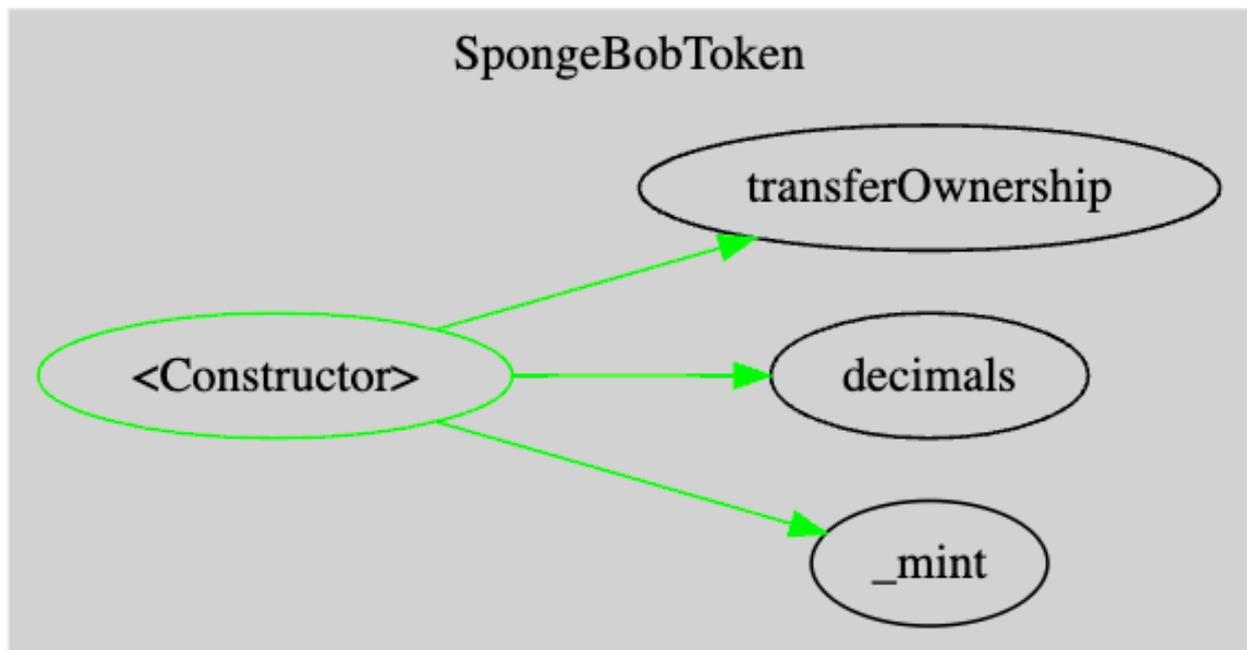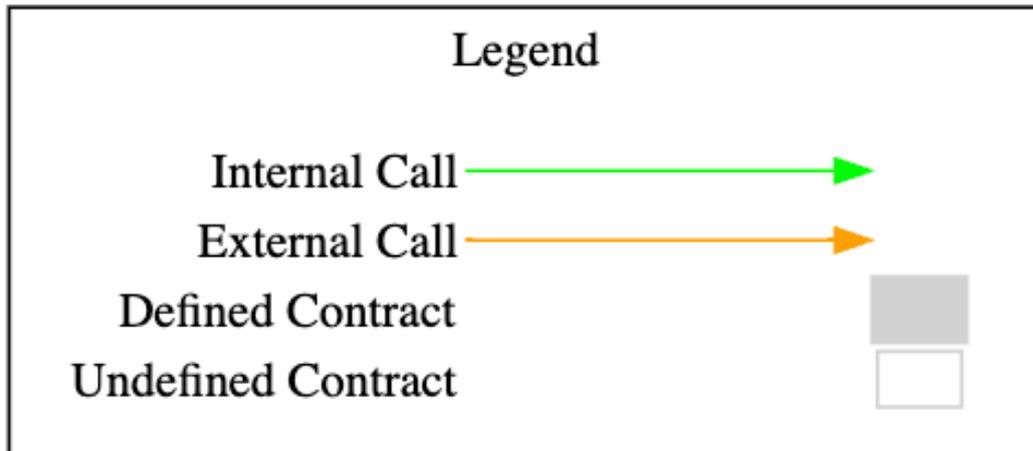
Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:
1. Is contract an upgradeable
2. Correct implementation of Token standard
3. Deployer cannot mint any new tokens
4. Deployer cannot burn or lock user funds
5. Deployer cannot pause the contract
6. Deployer cannot set fees
7. Deployer cannot blacklist/antisnipe addresses
8. Overall checkup (Smart Contract Security)

Is contract an upgradeable

Name	
Is contract an upgradeable?	**No**

Correct implementation of Token standard

ERC20				
Function	**Description**	**Exist**	**Tested**	**Verified**
TotalSupply	Provides information about the total token supply	✓	✓	✓
BalanceOf	Provides account balance of the owner's account	✓	✓	✓
Transfer	Executes transfers of a specified number of tokens to a specified address	✓	✓	✓
TransferFrom	Executes transfers of a specified number of tokens from a specified address	✓	✓	✓
Approve	Allow a spender to withdraw a set number of tokens from a specified account	✓	✓	✓
Allowance	Returns a set number of tokens from a spender to the owner	✓	✓	✓

Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	✓	✓	✓
Max / Total Supply	40_400_000_000		

Comments:

v1.0

• Owner cannot mint new tokens
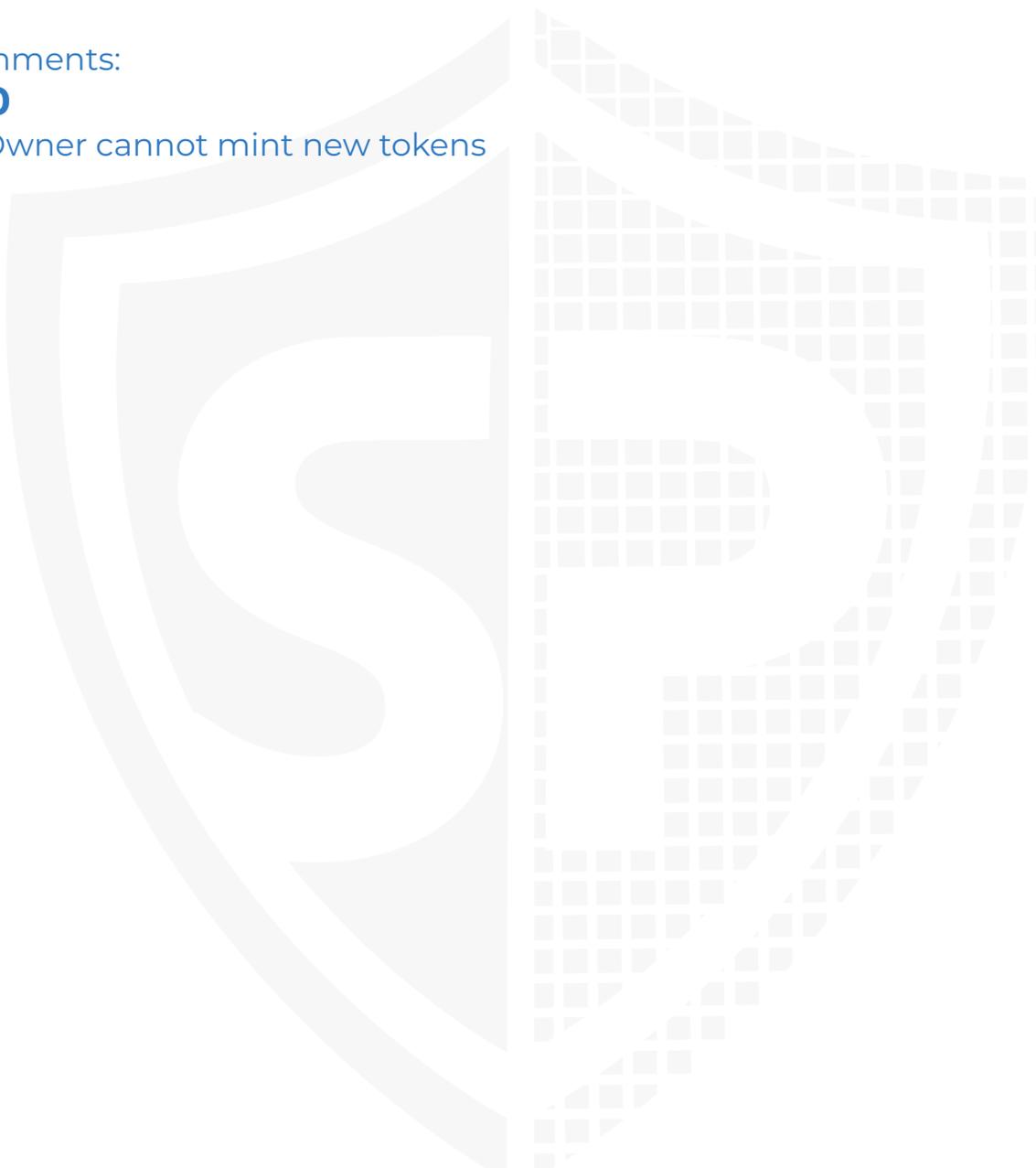
Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer cannot lock	–	–	–
Deployer cannot burn	–	–	–

Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	–	–	–

Deployer cannot set fees

Name	Exist	Tested	Status
Deployer cannot set fees over 25%	–	–	–
Deployer cannot set fees to nearly 100% or to 100%	–	–	–

Deployer can blacklist/antisnipe addresses

Name	Exist	Tested	Status
Deployer cannot blacklist/antisnipe addresses	–	–	–

Overall checkup (Smart Contract Security)

Tested	Verified
✓	✓

Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	🚩
Unverified / Not checked	✗
Not available	−

Modifiers and public functions
v1.0

N/A

Ownership Privileges
There is no ownership functionality in the contract

Please check if an OnlyOwner or similar restrictive modifier has been forgotten.

Source Units in Scope
v1.0

File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score
contracts/Token.sol	1	———	12	12	9	1	9
Totals	1	———	12	12	9	1	9

Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalised lines of the source unit (e.g. normalises functions spanning multiple lines)
nSLOC	normalised source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces, …)

Audit Results

Critical issues

No critical issues

High issues

No high issues

Medium issues

No medium issues

Low issues

No low issues

Informational issues

Issue	File	Type	Line	Description
#1	Main	NatSpec documentation missing	—	If you started to comment your code, also comment all other functions, variables etc.

Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information https://docs.soliditylang.org/en/latest/natspec-format.html) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

12. May 2023:

- Read whole report and modifiers section for more information
- There is no ownership in the contract

SWC Attacks

ID	Title	Relationships	Status
SWC-136	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	**PASSED**
SWC-135	Code With No Effects	CWE-1164: Irrelevant Code	**PASSED**
SWC-134	Message call with hardcoded gas amount	CWE-655: Improper Initialization	**PASSED**
SWC-133	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	**PASSED**
SWC-132	Unexpected Ether balance	CWE-667: Improper Locking	**PASSED**
SWC-131	Presence of unused variables	CWE-1164: Irrelevant Code	**PASSED**
SWC-130	Right-To-Left-Override control character (U+202E)	CWE-451: User Interface (UI) Misrepresentation of Critical Information	**PASSED**
SWC-129	Typographical Error	CWE-480: Use of Incorrect Operator	**PASSED**
SWC-128	DoS With Block Gas Limit	CWE-400: Uncontrolled Resource Consumption	**PASSED**

[SWC-127](#)	Arbitrary Jump with Function Type Variable	[CWE-695: Use of Low-Level Functionality](#)	**PASSED**
[SWC-125](#)	Incorrect Inheritance Order	[CWE-696: Incorrect Behavior Order](#)	**PASSED**
[SWC-124](#)	Write to Arbitrary Storage Location	[CWE-123: Write-what-where Condition](#)	**PASSED**
[SWC-123](#)	Requirement Violation	[CWE-573: Improper Following of Specification by Caller](#)	**PASSED**
[SWC-122](#)	Lack of Proper Signature Verification	[CWE-345: Insufficient Verification of Data Authenticity](#)	**PASSED**
[SWC-121](#)	Missing Protection against Signature Replay Attacks	[CWE-347: Improper Verification of Cryptographic Signature](#)	**PASSED**
[SWC-120](#)	Weak Sources of Randomness from Chain Attributes	[CWE-330: Use of Insufficiently Random Values](#)	**PASSED**
[SWC-119](#)	Shadowing State Variables	[CWE-710: Improper Adherence to Coding Standards](#)	**PASSED**
[SWC-118](#)	Incorrect Constructor Name	[CWE-665: Improper Initialization](#)	**PASSED**
[SWC-117](#)	Signature Malleability	[CWE-347: Improper Verification of Cryptographic Signature](#)	**PASSED**

SWC-116	Timestamp Dependence	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	**PASSED**
SWC-115	Authorization through tx.origin	CWE-477: Use of Obsolete Function	**PASSED**
SWC-114	Transaction Order Dependence	CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	**PASSED**
SWC-113	DoS with Failed Call	CWE-703: Improper Check or Handling of Exceptional Conditions	**PASSED**
SWC-112	Delegatecall to Untrusted Callee	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	**PASSED**
SWC-111	Use of Deprecated Solidity Functions	CWE-477: Use of Obsolete Function	**PASSED**
SWC-110	Assert Violation	CWE-670: Always-Incorrect Control Flow Implementation	**PASSED**
SWC-109	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	**PASSED**
SWC-108	State Variable Default Visibility	CWE-710: Improper Adherence to Coding Standards	**PASSED**
SWC-107	Reentrancy	CWE-841: Improper Enforcement of Behavioral Workflow	**PASSED**
SWC-106	Unprotected SELFDESTRUCT Instruction	CWE-284: Improper Access Control	**PASSED**

[SWC-105](#)	Unprotected Ether Withdrawal	[CWE-284: Improper Access Control](#)	**PASSED**
[SWC-104](#)	Unchecked Call Return Value	[CWE-252: Unchecked Return Value](#)	**PASSED**
[SWC-103](#)	Floating Pragma	[CWE-664: Improper Control of a Resource Through its Lifetime](#)	**PASSED**
[SWC-102](#)	Outdated Compiler Version	[CWE-937: Using Components with Known Vulnerabilities](#)	**PASSED**
[SWC-101](#)	Integer Overflow and Underflow	[CWE-682: Incorrect Calculation](#)	**PASSED**
[SWC-100](#)	Function Default Visibility	[CWE-710: Improper Adherence to Coding Standards](#)	**PASSED**