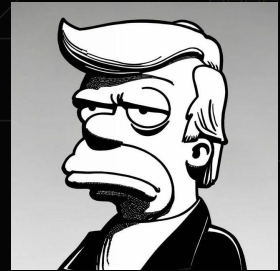




# SECURITY ASSESSMENT **Bloodbath TOKEN**

April 16, 2024

Audit Status: Pass














BLADE POOL

# RISK ANALYSIS | Bloodbath.

## ■ Classifications of Manual Risk Results

Classification	Description
 Critical	Danger or Potential Problems.
 High	Be Careful or Fail test.
 Medium	Improve is needed.
 Low	Pass, Not-Detected or Safe Item.
 Informational	Function Detected

## ■ Manual Code Review Risk Results

Contract Security	Description
 Buy Tax	0%
 Sale Tax	0%
 Cannot Buy	Pass
 Cannot Sale	Pass
 Max Tax	25
 Modify Tax	No
 Fee Check	Pass
 Is Honeypot?	Not Detected
 Trading Cooldown	Not Detected
 Enable Trade?	True
 Pause Transfer?	Not Detected

Contract Security	Description
● Max Tx?	Pass
● Is Anti Whale?	Not Detected
● Is Anti Bot?	Not Detected
● Is Blacklist?	Not Detected
● Blacklist Check	Pass
● is Whitelist?	Pass
● Can Mint?	Pass
● Is Proxy?	Not Detected
● Can Take Ownership?	Not Detected
● Hidden Owner?	Not Detected
i Owner	0xE8C8b0B19d21b380C486FA3F4A8f7E292f27273
● Self Destruct?	Not Detected
● External Call?	Not Detected
● Other?	Not Detected
● Holders	2
● Audit Confidence	Medium
● Authority Check	Pass
● Freeze Check	Pass

The summary section reveals the strengths and weaknesses identified during the assessment, including any vulnerabilities or potential risks that may exist. It serves as a valuable snapshot of the overall security status of the audited project. However, it is highly recommended to read the entire security assessment report for a comprehensive understanding of the findings. The full report provides detailed insights into the assessment process, methodology, and specific recommendations for addressing the identified issues.

CFG Ninja Verified on April 16, 2024



## Bloodbath

### Executive Summary

TYPES

DeFi

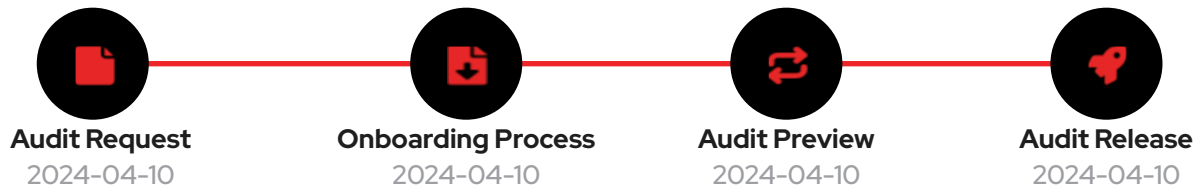
ECOSYSTEM

ETHEREUM

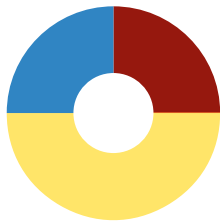
LANGUAGE

Solidity

### Timeline



### Vulnerability Summary



4

Total Findings

0

Resolved

4

Pending

4

Unresolved

#### 1 Critical

0 Resolved, 1 Pending

Critical risks are the most severe and can have a significant impact on the smart contracts functionality, security, or the entire system. These vulnerabilities can lead to the loss of user funds, unauthorized access, or complete system compromise.

#### 0 High

High-risk vulnerabilities have the potential to cause significant harm to the smart contract or the system. While not as severe as critical risks, they can still result in financial losses, data breaches, or denial of service attacks.

#### 0 Medium

Medium-risk vulnerabilities pose a moderate level of risk to the smart contracts security and functionality. They may not have an immediate and severe impact but can still lead to potential issues if exploited. These risks should be addressed to ensure the contracts overall security.

#### 2 Low

0 Resolved, 2 Pending

Low-risk vulnerabilities have a minimal impact on the smart contracts security and functionality. They may not pose a significant threat, but it is still advisable to address them to maintain a robust security posture.

#### 1 Informational

0 Resolved, 1 Pending

Informational risks are not actual vulnerabilities but provide useful information about potential improvements or best practices. These findings may include suggestions for code optimizations, documentation enhancements, or other non-critical areas for improvement.

## Token Distribution

### Fairlaunch

Tokens allocated for the sale.

0%




### Team and Advisors

Teams

0%

## Total Unlock Progress



 Unlocked	0	0%
 Total Locked	100000000	30.00000003%
 Untracked	233333333	69.99999997%

# PROJECT OVERVIEW | Bloodbath.

## Token Summary

Parameter	Result
Address	0x1c9718449c06F4D63e57B330C9D71849F1a72670
Name	Bloodbath
Token Tracker	Bloodbath (BLOODBATH)
Decimals	9
Supply	333,333,333
Platform	ETHEREUM
Compiler	v0.8.4+commit.c7e474f2
Contract Name	LiquidityGeneratorToken
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	<a href="https://basescan.org/address/0x1c9718449c06F4D63e57B330C9D71849F1a72670#code">https://basescan.org/ address/0x1c9718449c06F4D63e57B330C9D71849F1a72670#code</a>

## Advance Verification

Parameter	Result
Transfer From Owner	Pass
Transfer From Holder	Pass
Add Liquidity	Pass
RemoveLiquidity	Pass
Buy from Owner	Pass
Buy from Holder	Pass
Sale from Owner	Pass
Sale from Holder	Pass
SwapAndLiquify	Pass
LaunchPad	PinkSale

The following is a simulation of the contract in our local testnet or using one of the public testnet environments, this is to ensure the contract operations are fully functional and that are able to pass the specific launchpad criterias. While this section may be a pass, please understand you need to review all other details of the project. Always DYOR.

## Main Contract Assessed

Name	Contract	Live
Bloodbath	0x1c9718449c06F4D63e57B330C9D71849F1a72670	Yes

## TestNet Contract Was Not Assessed

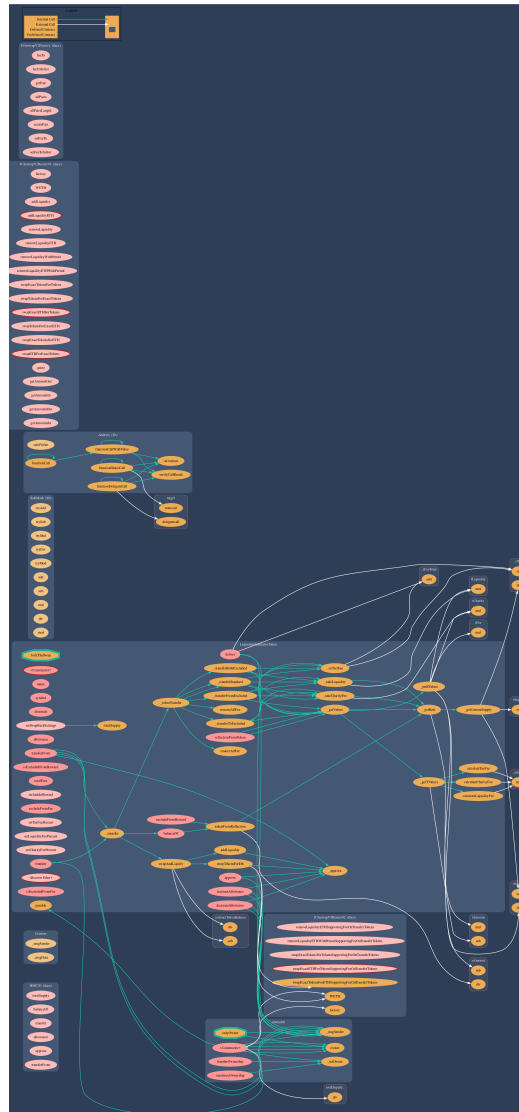
## Solidity Code Provided

SolidID	File Sha-1	FileName
Bloodbath	e144f8f6ba3ed87f47d074af7c36e6099b67d38a	BLOODBATH.sol
Bloodbath		
Bloodbath		
Bloodbath		
Bloodbath		
Bloodbath		



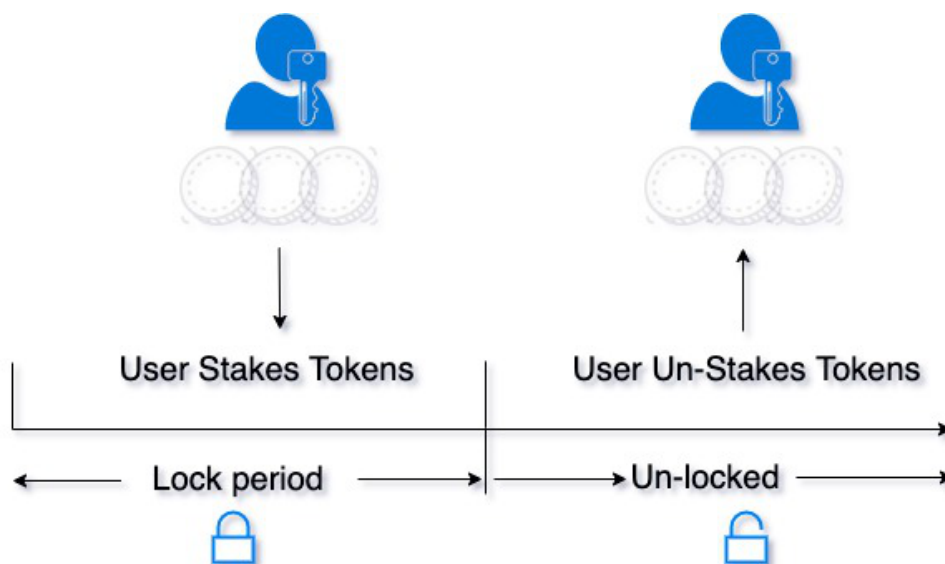
## Call Graph

The Smart Contract Graph is a visual representation of the interconnectedness and relationships between smart contracts within a blockchain network. It provides a comprehensive view of the interactions and dependencies between different smart contracts, allowing developers and users to analyze and understand the flow of data and transactions within the network. The Smart Contract Graph enables better transparency, security, and efficiency in decentralized applications by facilitating the identification of potential vulnerabilities, optimizing contract execution, and enhancing overall network performance.



## What is a Staking Contract?

A smart contract which allows users to stake and un-stake a specified ERC20 token. Staked tokens are locked for a specific length of time (set by the contract owner at the outset). Once the time period has elapsed, the user can remove their tokens again.

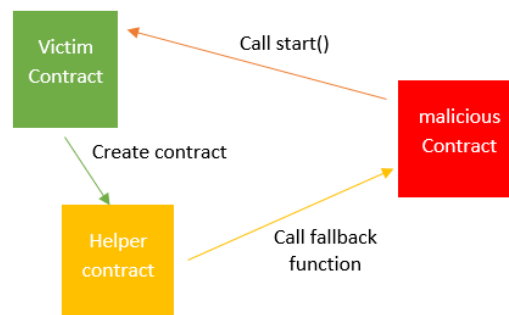


## Reentrancy Check

**The Project Owners of Bloodbath have implemented Reentrancy Guard Library**

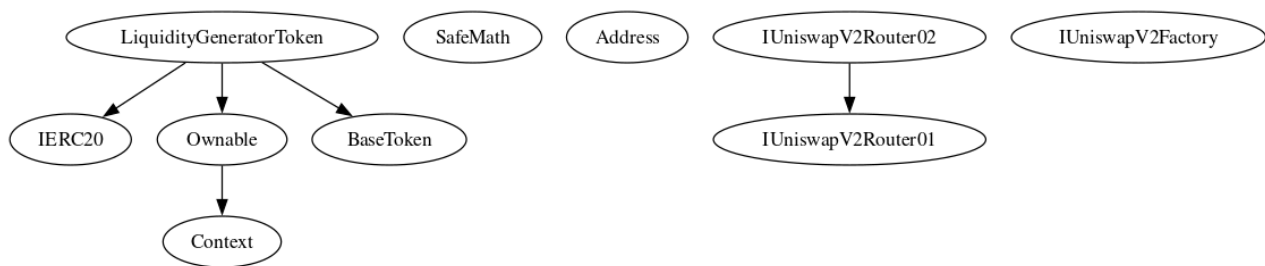
**The Team has done a great job to avoid potential reentrancy issues in the contract.**

**You can read more about the reentrancy library used. [ReentrancyGuard](#)**



## Inheritance Check

Smart contract inheritance is a concept in blockchain programming where one smart contract can inherit properties and functionalities from another existing smart contract. This allows for code reuse and modularity, making the development process more efficient and scalable. Inheritance enables the child contract to access and utilize the variables, functions, and modifiers defined in the parent contract, thereby inheriting its behavior and characteristics. This feature is particularly useful in complex decentralized applications (dApps) where multiple contracts need to interact and share common functionalities. By leveraging smart contract inheritance, developers can create more organized and maintainable code structures, promoting code reusability and reducing redundancy.



## SMART CONTRACT VULNERABILITY DETAILS | Bloodbath.

### | SWC-108 – State Variable Default Visibility.

#### CWE-710: Improper Adherence to Coding Standards

##### Description:

Labeling the visibility explicitly makes it easier to catch incorrect assumptions about who can access the variable.

##### Remediation:

Variables can be specified as being public, internal or private. Explicitly define visibility for all state variables.






##### References:

Ethereum Smart Contract Best Practices – Explicitly mark visibility in functions and state variables

## TECHNICAL FINDINGS | Bloodbath.



Smart contract security audits classify risks into several categories: Critical, High, Medium, Low, and Informational. These classifications help assess the severity and potential impact of vulnerabilities found in smart contracts.

### Classification of Risk

Severity	Description
 Critical	Critical risks are the most severe and can have a significant impact on the smart contracts functionality, security, or the entire system. These vulnerabilities can lead to the loss of user funds, unauthorized access, or complete system compromise.
 High	High-risk vulnerabilities have the potential to cause significant harm to the smart contract or the system. While not as severe as critical risks, they can still result in financial losses, data breaches, or denial of service attacks.
 Medium	Medium-risk vulnerabilities pose a moderate level of risk to the smart contracts security and functionality. They may not have an immediate and severe impact but can still lead to potential issues if exploited. These risks should be addressed to ensure the contracts overall security.
 Low	Low-risk vulnerabilities have a minimal impact on the smart contracts security and functionality. They may not pose a significant threat, but it is still advisable to address them to maintain a robust security posture.
 Informational	Informational risks are not actual vulnerabilities but provide useful information about potential improvements or best practices. These findings may include suggestions for code optimizations, documentation enhancements, or other non-critical areas for improvement.

By categorizing risks into these classifications, smart contract security audits can prioritize the resolution of critical and high-risk vulnerabilities to ensure the contract's overall security and protect user funds and data.

## BLOODBATH-02 | Function Visibility Optimization.

Category	Severity	Location	Status
Gas Optimization	 Informational	LiquidityGenerator.sol: L: 1190 C: 14, L: 1237 C: 14	 Detected

### Description

The following functions are declared as public and are not invoked in any of the contracts contained within the projects scope:

Function Name	Parameters	Visibility
excludeFromReward	address account	Public
excludeFromFee	address account	Public

The functions that are never called internally within the contract should have external visibility

### Recommendation



We advise that the function's visibility specifiers are set to external, and the array-based arguments change their data location from memory to calldata, optimizing the gas cost of the function.

### Mitigation

#### References:

external vs public best practices.

## BLOODBATH-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	 Low	LiquidityGenerator.sol: L: 1237 C: 14	 Not Detected

### Description

The given input is missing the check for the non-zero address.

The given input is missing the check for the onlyOwners need to be revisited for require..

### Recommendation

We advise the client to add the check for the passed-in values to prevent unexpected errors as below:

```
...  
require(receiver != address(0), "Receiver is the zero address");  
...  
...  
require(value X limitation, "Your not able to do this function");  
...
```

We also recommend customer to review the following function that is missing a required validation. onlyOwners need to be revisited for require..



### Mitigation

#### References:

Zero Address check. The danger!!!



## BLOODBATH-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	 Low	LiquidityGenerator.sol: L: 1190 C: 14, L: 1200 C: 14, L: 1237 C: 14, L: 1241 C: 14, L: 1249 C: 14, L: 1260 C: 14	 Detected

### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes. The linked code does not create an event for the transfer.

### Recommendation



Emit an event for critical parameter changes. It is recommended emitting events for the sensitive functions that are controlled by centralization roles.

### Mitigation

### References:

Understanding Events in Smart Contracts

## BLOODBATH-14 | Unnecessary Use Of SafeMath.

Category	Severity	Location	Status
Logical Issue	 Informational	LiquidityGenerator.sol: 205, 10	 Pending

### Description

The SafeMath library is used unnecessarily. With Solidity compiler versions 0.8.0 or newer, arithmetic operations

will automatically revert in case of integer overflow or underflow.

library SafeMath {

An implementation of SafeMath library is found.

using SafeMath for uint256;

SafeMath library is used for uint256 type in contract.

### Recommendation

We advise removing the usage of SafeMath library and using the built-in arithmetic operations provided by the

Solidity programming language.






### Mitigation

#### References:

Writing Clean Code for Solidity: Best Practices for Solidity Development

## FINDINGS

In this document, we present the findings and results of the smart contract security audit. The identified vulnerabilities, weaknesses, and potential risks are outlined, along with recommendations for mitigating these issues. It is crucial for the team to address these findings promptly to enhance the security and trustworthiness of the smart contract code.

Severity	Found	Pending	Resolved
 Critical	0	1	0
 High	0	0	0
 Medium	1	0	0
 Low	2	2	0
 Informational	1	1	0
Total	4	4	0

In a smart contract, a technical finding summary refers to a compilation of identified issues or vulnerabilities discovered during a security audit. These findings can range from coding errors and logical flaws to potential security risks. It is crucial for the project owner to thoroughly review each identified item and take necessary actions to resolve them. By carefully examining the technical finding summary, the project owner can gain insights into the weaknesses or potential threats present in the smart contract. They should prioritize addressing these issues promptly to mitigate any risks associated with the contract's security. Neglecting to address any identified item in the security audit can expose the smart contract to significant risks. Unresolved vulnerabilities can be exploited by malicious actors, potentially leading to financial losses, data breaches, or other detrimental consequences. To ensure the integrity and security of the smart contract, the project owner should engage in a comprehensive review process. This involves understanding the nature and severity of each identified item, consulting with experts if needed, and implementing appropriate fixes or enhancements. Regularly updating and maintaining the smart contract's codebase is also essential to address any emerging security concerns. By diligently reviewing and resolving all identified items in the technical finding summary, the project owner can significantly reduce the risks associated with the smart contract and enhance its overall security posture.

## SOCIAL MEDIA CHECKS | Bloodbath.

Social Media	URL	Result
Website	<a href="https://bloodbath.holiday/">https://bloodbath.holiday/</a>	Pass
Telegram	<a href="https://t.me/therewillbeabloodbath">https://t.me/therewillbeabloodbath</a>	Pass
Twitter	<a href="https://twitter.com/Bloodbathday">https://twitter.com/Bloodbathday</a>	Pass
Facebook		N/A
Reddit	N/A	N/A
Instagram	N/A	N/A
CoinGecko	N/A	N/A
Github		N/A
CMC	N/A	N/A
Email	N/A	Contact
Other		Fail

From a security assessment standpoint, inspecting a project's social media presence is essential. It enables the evaluation of the project's reputation, credibility, and trustworthiness within the community. By analyzing the content shared, engagement levels, and the response to any security-related incidents, one can assess the project's commitment to security practices and its ability to handle potential threats.

### Social Media Information Notes:

**Auditor Notes:** Website looks good but definitely think about possibly putting a flash warning? The flashes start to hurt someone's eyes after a few minutes on it.

### Project Owner Notes:

## ASSESSMENT RESULTS | Bloodbath.

### Score Results

Review	Score
Overall Score	94/100
Auditor Score	80/100

Review by Section	Score
Manual Scan Score	37
SWC Scan Score	35
Advance Check Score	22

Our security assessment or audit score system for the smart contract and project follows a comprehensive evaluation process to ensure the highest level of security. The system assigns a score based on various security parameters and benchmarks, with a passing score set at 80 out of a total attainable score of 100. The assessment process includes a thorough review of the smart contracts codebase, architecture, and design principles. It examines potential vulnerabilities, such as code bugs, logical flaws, and potential attack vectors. The evaluation also considers the adherence to best practices and industry standards for secure coding. Additionally, the system assesses the projects overall security measures, including infrastructure security, data protection, and access controls. It evaluates the implementation of encryption, authentication mechanisms, and secure communication protocols. To achieve a passing score, the smart contract and project must attain a minimum of 80 points out of the total attainable score of 100. This ensures that the system has undergone a rigorous security assessment and meets the required standards for secure operation.



## Important Notes for BLOODBATH

- One or two vulnerabilities were found.
- SafeMath is not recommended.
- A few functions are missing emit and only 2 are missing require.
- Contract by Bloodbath Holiday.

**Auditor Score =80**  
**Audit Passed**



## Appendix

### Finding Categories

#### Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

#### Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

#### Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how `block.timestamp` works.

#### Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

#### Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

#### Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

#### Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different requirements on the input variables than a setter function.

#### Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.

## Disclaimer

The purpose of this disclaimer is to outline the responsibilities and limitations of the security assessment and smart contract audit conducted by Bladepool/CFG NINJA. By engaging our services, the project owner acknowledges and agrees to the following terms:

1. Limitation of Liability: Bladepool/CFG NINJA shall not be held liable for any damages, losses, or expenses incurred as a result of any contract malfunctions, vulnerabilities, or exploits discovered during the security assessment and smart contract audit. The project owner assumes full responsibility for any consequences arising from the use or implementation of the audited smart contract. 2. No Guarantee of Absolute Security: While Bladepool/CFG NINJA employs industry-standard practices and methodologies to identify potential security risks, it is important to note that no security assessment or smart contract audit can provide an absolute guarantee of security. The project owner acknowledges that there may still be unknown vulnerabilities or risks that are beyond the scope of our assessment. 3. Transfer of Responsibility: By engaging our services, the project owner agrees to assume full responsibility for addressing and mitigating any identified vulnerabilities or risks discovered during the security assessment and smart contract audit. It is the project owner's sole responsibility to ensure the proper implementation of necessary security measures and to address any identified issues promptly. 4. Compliance with Applicable Laws and Regulations: The project owner acknowledges and agrees to comply with all applicable laws, regulations, and industry standards related to the use and implementation of smart contracts. Bladepool/CFG NINJA shall not be held responsible for any non-compliance by the project owner. 5. Third-Party Services: The security assessment and smart contract audit conducted by Bladepool/CFG NINJA may involve the use of third-party tools, services, or technologies. While we exercise due diligence in selecting and utilizing these resources, we cannot be held liable for any issues or damages arising from the use of such third-party services. 6. Confidentiality: Bladepool/CFG NINJA maintains strict confidentiality regarding all information and data obtained during the security assessment and smart contract audit. However, we cannot guarantee the security of data transmitted over the internet or through any other means. 7. Not a Financial Advice: Bladepool/CFG NINJA please note that the information provided in the security assessment or audit should not be considered as financial advice. It is always recommended to consult with a financial professional or do thorough research before making any investment decisions.

By engaging our services, the project owner acknowledges and accepts these terms and releases Bladepool/CFG NINJA from any liability, claims, or damages arising from the security assessment and smart contract audit. It is recommended that the project owner consult legal counsel before entering into any agreement or contract.

