Solidity checkUp

HICKORY Token

SMART CONTRACT AUDIT REPORT
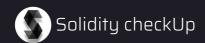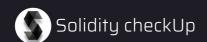
23 December 2022

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Disclaimer

The information provided on this report document is only for general information and should not be used as a reason to invest. Solidity CheckUp Team will take no payment for manipulating the results of this audit. Solidity CheckUp Team does not guarantees that a project will not sell off team supply, or any other scam strategy.

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. The audit can't guarantee the explicit security of the audited project / smart contract.

Audit Details

Audited project
Hickory Token

Deployer Address
0xa8e4345D067Bb82105017f98D2EaA91714a594bD
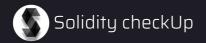
Client Contacts
Hickory Token Team

Website
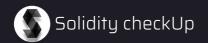www.hicchain.one

Blockchain
Polygon

Background

Solidity CheckUp was commissioned by Hickory to perform an audit of smart contracts:
https://polygonscan.com/token/0x48C9D2d680F0f4 BF28289014A6A34CF2bc1305E7#code
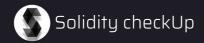The purpose of the audit was to achieve the following:
• Ensure that the smart contract functions as intended.
• Identify potential security issues with the smart contract.
The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contract Details

Token	Contract Details for 23.12.2022
Contract Name	PowerfulERC20
Contract Address	0x48C9D2d680F0f4BF28289014A6A34CF2bc1305E7
Total Supply	6,000,000
Token Ticker	HIC
Decimals	18
Token Holders	2
Transections Count	2
Liquidity Fee	N/A
Tax Fee	N/A
Uniswap V2 Pair	N/A

Token Details

Details

Buy Fees:	N/A
Sell Fees:	N/A
Max TX:	N/A
Max Sell:	N/A

Honeypot Risk

Ownership:	Owned
Blacklist:	Not Detected
Modify Max TX:	Not Detected
Modify Max Sell:	Not Detected
Disable Trading:	Not Detected

Rug Pull Risk

Liqidity:	Not Detected
Holders:	Not Detected

Token Analysis & Top10 Holders

Source: polygonscan.com

OTHER ACCOUNTS

0xa8e4345d067bb82105017f98d2eaa91714a594bd

0x610d2f92ef6769b79185b09ac439c2662d04e403

(A total of 6,000,000.00 tokens held by the top 100 accounts from the total supply of 6,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x610d2f92ef6769b79185b09ac439c2662d04e403	5,919,480	98.6580%
2	0xa8e4345d067bb82105017f98d2eaa91714a594bd	80,520	1.3420%

https://polygonscan.com/token/tokenholderchart/0x48c9d2d680f0f4bf28289014a6a34cf2bc1305e7

A total of 2 token holders

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Rank	Address	Quantity	Percentage	Analytics
1	0x610d2f92ef6769b79185b09ac439c2662d04e403	5,919,480	98.6580%	📈
2	0xa8e4345d067bb82105017f98d2eaa91714a594bd	80,520	1.3420%	📈

[Download CSV Export ↧]

Audit Overview

No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Passed
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

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Audit Overview

Security Issue

(1) **High**

(1) **Medium**

(12) **Low**

(0) **Critical**

Audit Overview

High Severity:

1. ERC20.sol – burn function: Lack of access control.

Medium Severity:

1. ERC20.sol -- _beforeTokenTransfer: function incomplete with stipulated requirements in @dev notes.

Low severity:

There are many things listed in the @dev notes and have not been added to the contract, things such as checking for zero addresses or checking minimum balance or allowance amounts. These mistakes makeup most of the issues here.

IERC20.sol:

1. transfer: requirements from @dev notes not added
2. approve: requirements from @dev notes not added

ERC20.sol:

1. transfer: requirements from @dev notes not added
2. approve: requirements from @dev notes not added
3. transferFrom: requirements from @dev notes not added
4. increaseAllowance: requirements from @dev notes not added
5. decreaseAllowance: requirements from @dev notes not added
6. _transfer: requirements from @dev notes not added
7. _mint: requirements from @dev notes not added
8. _burn: requirements from @dev notes not added
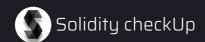9. _approve: requirements from @dev notes not added

Address.sol

1. functionCall: requirements from @dev notes not added

Owner Privileges

- Contract owner can mint tokens after initial contract deploy.
- Contract owner can't disable trading.
- Contract owner can burn tokens.
- Contract owner can transfer ownership.
- Contract owner can renounce ownership .
- Contract owner can also revoke other roles as admin of contract.

Conclusion & Analysis

- Smart Contracts within the scope were manually reviewed and analyzed with static tools.

- Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.

- Found no Critical issue during the first review.

- Liquidity pair contract security is not checked due to out of scope

⚠️

Kindly check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

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