freshcoins

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

Clear Water

$CLEAR

04/02/2022

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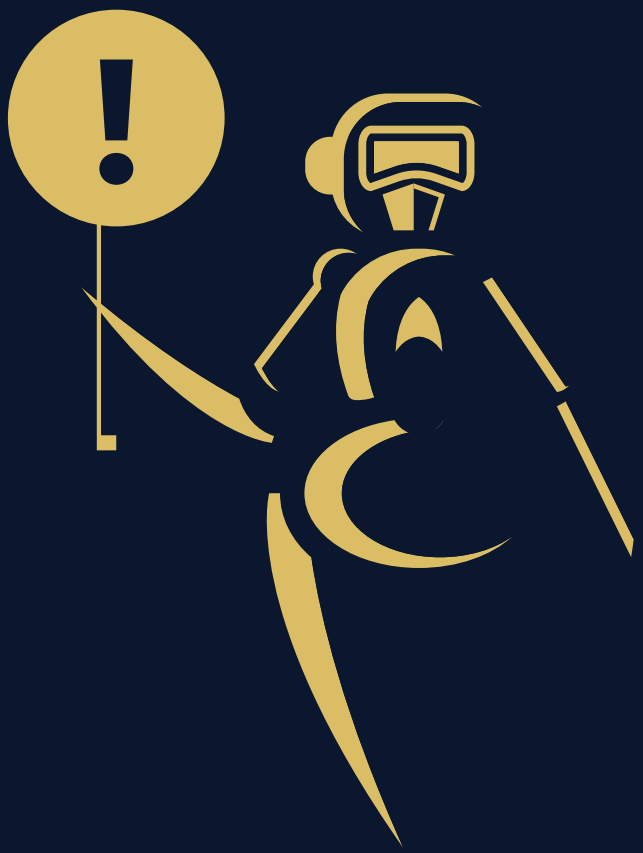
DISCLAIMER

The information provided on this analysis document is only for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results of this audit.

The score and the result will stay on this project page information on our website https://freshcoins.io
FreshCoins Team does not guarantees that a project will not sell off team supply, or any other scam strategy (RUG or Honeypot etc)



INTRODUCTION

FreshCoins (Consultant) was contracted by
Clear Water (Customer) to conduct a Smart Contract Code Review
and Security Analysis.

0x09Faf80c7Df27d0Fb8A717324963cB871f6814f7

Network: Binance Smart Chain (BSC)

This report presents the findings of the security assessment of
Customer's smart contract and its code review conducted on 04/02/2022

WEBSITE DIAGNOSTIC

https://www.clearwaterclw.com/

0-49 50-89 90-100

81	97	92	91	NA
Performance	Accessibility	Best Practices	SEO	Progressive Web App

Metrics

First Contentful Paint
2.9 s

Time to interactive
14.2 s

Speed Index
8.8 s

Total Blocking Time
1,200 ms

Large Contentful Paint
7.3 s

Cumulative Layout Shift
0.057

WEBSITE IMPROVEMENTS

Ensure text remains visible during webfont load

Reduce unused CSS

Reduce unused JavaScript

Reduce JavaScript execution time 5.0 s

Avoid enormous network payloads Total size was 2,910 KiB

Background and foreground colors do not have a sufficient contrast ratio

Heading elements are not in a sequentially-descending order

AUDIT OVERVIEW

94

Security Score

92

Static Scan
Automatic scanning for common vulnerabilities

96

ERC Scan
Automatic checks for ERC's conformance

0 High

0 Medium

1 Low

0 Optimizations

0 Informational

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	Low
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

OWNER PRIVILEGES

Contract owner can't mint tokens after initial contract deploy.

SafeToken and LockToken lib included

Contract owner can exclude/include wallet(s) from fees

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    require(_isExcludedFromFees[account] != excluded, "ClearWater: Account is already the value of 'exclud-
ed'");
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}
```

```
function excludeMultipleAccountsFromFees(address[] calldata accounts, bool excluded) public onlyOwner {
    for(uint256 i = 0; i < accounts.length; i++)
    {
      _isExcludedFromFees[accounts[i]] = excluded;
    }
    emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}
```

Contract owner can exclude/include wallet from max tx limitations

```
function excludeFromMaxTx(address _address, bool value) public onlyOwner {
    _isExcludedFromMaxTx[_address] = value;
}
```

Contract owner can exclude wallet from dividends, fees and max tx limitations

```
function setExcludeFromAll(address _address) public onlyOwner {
    _isExcludedFromMaxTx[_address] = true;
    _isExcludedFromFees[_address] = true;
    dividendTracker.excludeFromDividends(_address);
}
```

Contract owner can change swap settings and amount

```
function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
    swapAndLiquifyEnabled = _enabled;
    emit SwapAndLiquifyEnabledUpdated(_enabled);
}
```

```
function setSwapTokensAtAmount(uint256 newAmount) public onlyOwner {
    swapTokensAtAmount = newAmount;
}
```

Contract owner can include wallet in whitelist

```
function includeToWhiteList(address[] memory _users) external onlyOwner {
    for(uint8 i = 0; i < _users.length; i++) {
        _whiteList[_users[i]] = true;
    }
}
```

Contract owner can change the fees up to 100%

```
function setFee(uint256 _bnbRewardFee, uint256 _liquidityFee, uint256 _CharityRewardFee, uint256 _Developer
RewardFee) public onlyOwner {
    BNBRewardsFee = _bnbRewardFee;
    liquidityFee = _liquidityFee;
    CharityRewardFee = _CharityRewardFee;
    DeveloperRewardFee = _DeveloperRewardFee;

    totalFees = BNBRewardsFee.add(liquidityFee).add(CharityRewardFee).add(DeveloperRewardFee); // total
fee transfer and buy
}
```

Contract owner can change sell fees

```
function setExtraFeeOnSell(uint256 _extraFeeOnSell) public onlyOwner {
    extraFeeOnSell = _extraFeeOnSell; // extra fee on sell
}
```

Contract owner can change CharityRewardWallet address

Current address:

CharityRewardWallet: **0x530e0a491c7bd4af7e91bb0be2e6a7ad1023edf3**

```
function setCharityRewardWallet(address payable _newCharityRewardWallet) public onlyOwner {
    CharityRewardWallet = _newCharityRewardWallet;
}
```

Contract owner can change max sell amount

```
function setMaxSelltx(uint256 _maxSellTxAmount) public onlyOwner {
    maxSellTransactionAmount = _maxSellTxAmount;
}
```

Contract owner can renounce ownership

```
function renounceOwnership() public virtual onlyOwner {
    _setOwner(address(0));
}
```

Contract owner can transfer ownership

```
function transferOwnership(address newOwner) public virtual onlyOwner {
    require(newOwner != address(0), "Ownable: new owner is the zero address");
    _setOwner(newOwner);
}
```

Recommendation:

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.

CONCLUSION AND 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 1 LOW issue during the first review.

TOKEN DETAILS

Details

Buy fees:	10%
Sell fees:	10%
Max TX:	N/A
Max Sell:	10,000,000,000

Honeypot Risk

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

Rug Pull Risk

Liquidity:	N/A
Holders:	Clean

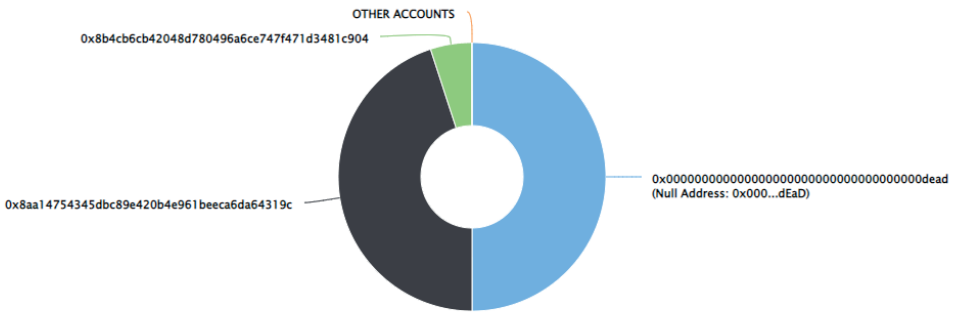
CLEAR WATER TOKEN DISTRIBUTION & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00% (10,000,000,000.00 Tokens) of Clear Water

Token Total Supply: 10,000,000,000.00 Token | Total Token Holders: 3

Clear Water Top 10 Token Holders

Source: BscScan.com



(A total of 10,000,000,000.00 tokens held by the top 10 accounts from the total supply of 10,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000...dEaD	5,000,000,000	50.0000%
2	0x8aa14754345dbc89e420b4e961beeca6da64319c	4,500,000,000	45.0000%
3	0x8b4cb6cb42048d780496a6ce747f471d3481c904	500,000,000	5.0000%

TECHNICAL DISCLAIMER

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.