



Smart Contract Audit

FOR

Crypto PepeMines

DATED : 10 May 23'



AUDIT SUMMARY

Project name – Crypto PepeMines

Date: 10 May, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: **Passed**

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	1	2
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

a line by line code review has been performed by audit ace team.

2- BSC Test Network:

all tests were done on BSC Test network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/token/0x4Bbe7693380942c505856e72371c6a3f784dF4ca>



Token Information

Token Name : Crypto PepeMines

Token Symbol: CPM

Decimals: 18

Token Supply:5,000,000

Token Address: -

Checksum:

bf50ef6934cc5b1dc376c49e6e5ffe496eb329da

Owner: -



TOKEN OVERVIEW

Fees:

Buy Fees: 3 %

Sell Fees: 3 %

Transfer Fees: 3%

Fees Privilige: owner

Ownership : none

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: modifying fees



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
 - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
 - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
 - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
 - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
 - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
-

VULNERABILITY CHECKLIST

- | | |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|  Return values of low-level calls |  Gasless Send |
|  Private modifier |  Using block.timestamp |
|  Multiple Sends |  Re-entrancy |
|  Using Suicide |  Tautology or contradiction |
|  Gas Limitand Loops |  Timestamp Dependence |
|  Address hardcoded |  Revert/require functions |
|  Exception Disorder |  Use of tx.origin |
|  Using inline assembly |  Integer overflow/underflow |
|  Divide before multiply |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3 |
|  Compiler version not fixed |  Using throw |
-

CLASSIFICATION OF RISK

Severity

Description

◆ Critical

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

◆ High-Risk

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

◆ Medium-Risk

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

◆ Low-Risk

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

◆ Gas Optimization /Suggestion

A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity

Found

◆ Critical

0

◆ High-Risk

0

◆ Medium-Risk

0

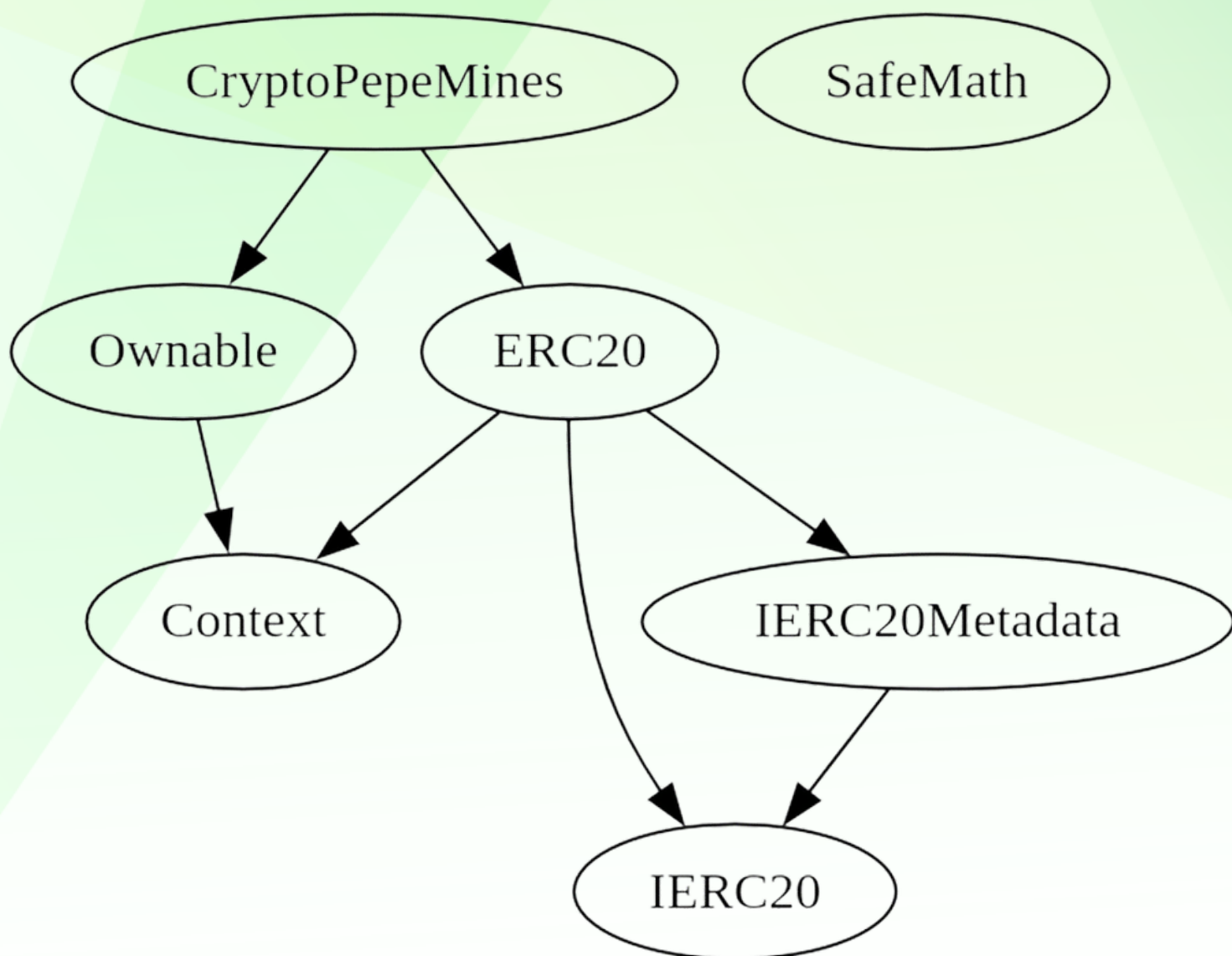
◆ Low-Risk

1

◆ Gas Optimization / Suggestions

2

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to set buy/sell/transfer tax over 3% each
 - Owner is not able to set a max buy/transfer/wallet/sell amount
 - Owner is not able to blacklist an arbitrary wallet
 - Owner is not able to disable trades
 - Owner is not able to mint new tokens
-



CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
CryptoPepesMines Implementation ERC20, Ownable					
L	<Constructor>	Public !	ERC20		
L	setLiquidityContract	External !	onlyOwner		
L	setWalletsExcludedFromFee	External !	onlyOwner		
L	setTax	External !	onlyOwner		
L	_transfer	Internal			
ERC20 Implementation Context, IERC20, IERC20Metadata					
L	<Constructor>	Public !	NO !		
L	name	Public !	NO !		
L	symbol	Public !	NO !		
L	decimals	Public !	NO !		
L	totalSupply	Public !	NO !		
L	balanceOf	Public !	NO !		
L	transfer	Public !	NO !		
L	allowance	Public !	NO !		
L	approve	Public !	NO !		
L	transferFrom	Public !	NO !		
L	increaseAllowance	Public !	NO !		
L	decreaseAllowance	Public !	NO !		
L	_transfer	Internal			
L	_mint	Internal			
L	_burn	Internal			
L	_approve	Internal			
L	_spendAllowance	Internal			
L	_beforeTokenTransfer	Internal			
L	_afterTokenTransfer	Internal			
IERC20 Interface					
L	totalSupply	External !	NO !		
L	balanceOf	External !	NO !		
L	transfer	External !	NO !		
L	allowance	External !	NO !		
L	approve	External !	NO !		
L	transferFrom	External !	NO !		
IERC20Metadata Interface IERC20					
L	name	External !	NO !		
L	symbol	External !	NO !		

CONTRACT ASSESMENT

```

|  | decimals | External ! | | NO! |
| | | |
| **Context** | Implementation | | |
|  | _msgSender | Internal | | |
|  | _msgData | Internal | | |
| | | |
| **Ownable** | Implementation | Context | | |
|  | <Constructor> | Public ! | | NO! |
|  | owner | Public ! | | NO! |
|  | _checkOwner | Internal | | |
|  | renounceOwnership | Public ! | | onlyOwner |
|  | transferOwnership | Public ! | | onlyOwner |
|  | _transferOwnership | Internal | | |
| | | |
| **SafeMath** | Library | | |
|  | tryAdd | Internal | | |
|  | trySub | Internal | | |
|  | tryMul | Internal | | |
|  | tryDiv | Internal | | |
|  | tryMod | Internal | | |
|  | add | Internal | | |
|  | sub | Internal | | |
|  | mul | Internal | | |
|  | div | Internal | | |
|  | mod | Internal | | |
|  | sub | Internal | | |
|  | div | Internal | | |
|  | mod | Internal | | |
| Symbol | Meaning |
|:-----:|-----|
|  | Function can modify state |
|  | Function is payable |

```



STATIC ANALYSIS

```
Context._msgData() (contracts/Token.sol#25-27) is never used and should be removed
ERC20._burn(address,uint256) (contracts/Token.sol#804-820) is never used and should be removed
SafeMath.add(uint256,uint256) (contracts/Token.sol#265-267) is never used and should be removed
SafeMath.div(uint256,uint256,string) (contracts/Token.sol#363-372) is never used and should be removed
SafeMath.mod(uint256,uint256) (contracts/Token.sol#323-325) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (contracts/Token.sol#389-398) is never used and should be removed
SafeMath.sub(uint256,uint256) (contracts/Token.sol#279-281) is never used and should be removed
SafeMath.sub(uint256,uint256,string) (contracts/Token.sol#340-349) is never used and should be removed
SafeMath.tryAdd(uint256,uint256) (contracts/Token.sol#179-188) is never used and should be removed
SafeMath.tryDiv(uint256,uint256) (contracts/Token.sol#230-238) is never used and should be removed
SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#245-253) is never used and should be removed
SafeMath.tryMul(uint256,uint256) (contracts/Token.sol#210-223) is never used and should be removed
SafeMath.trySub(uint256,uint256) (contracts/Token.sol#195-203) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#8) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Parameter CryptoPepeMines.setTax(uint256)._tax (contracts/Token.sol#1001) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

CryptoPepeMines.constructor() (contracts/Token.sol#975-979) uses literals with too many digits:
- _mint(msg.sender,5000000 * 10 ** decimals()) (contracts/Token.sol#976)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits
```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x971b9dbfdda14a38a5f2ee9009c5c8bc82858b49dcc245a9a41d7be0c9723381>

2- Buying when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xed6f8a8ab913c9636143e99da63a9f39f4a0a9c1cbdf51377b11976f6ff1ede8>

3- Selling when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x66a40fa8cbeb864175168e40263f23569405a47b77911b3e8c2ffd46c876e951>

4- Transferring when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x19ee4889846f047d74c5c6343a6cf34ccacbd2aec42f4d12900c6d77f786a1bb>

5- Buying when not excluded (3% tax) (passed):

<https://testnet.bscscan.com/tx/0x6bbe8a2d92f6be8fb8ed858f8454519727c83903ef28c6aad68b087bcd568a19>

6- Selling when not excluded (3% tax) (passed):

<https://testnet.bscscan.com/tx/0xe41fb967be70440fcbdb414d765fde6634836b3b419b62e038436471ffdc0798>



FUNCTIONAL TESTING

7- Transferring when not excluded (3% tax) (passed):

<https://testnet.bscscan.com/tx/0x01bc353e07640965bb52d6bce7dd520d25ec9910782e7c59e51b81aa31ee1ea4>

MANUAL TESTING

Logical – Fee whitelist

Severity: **Low**

function: setExcludedFromFee

Status: Not Resolved

Overview:

if a wallet is excluded from fees, it can not be unexcluded again.

```
function setWalletsExcludedFromFee(address wallet) external onlyOwner {
    require(
        wallet != address(0),
        "address variable can not be zero address"
    );
    require(!isExcludedFromFee[wallet], "This wallet is excluded");
    isExcludedFromFee[wallet] = true;
    emit WalletsExcludedFromFee(wallet);
}
```

Suggestion

To mitigate this issue, implement a way to unexclude a wallet from fees

MANUAL TESTING

Informational – Stuck ETH

Status: Not Resolved

Overview:

Currently there is no way to withdraw ETH from the contract

Suggestion:

implement a function to be able to withdraw ETH from the contract

Informational – Stuck ERC20 tokens

Status: Not Resolved

Overview:

ERC20 tokens sent to contract can not be rescued.

Suggestion:

implement a function to be able to withdraw ERC20 tokens from the contract



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