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Development | Marketing**

MADE IN GERMANY

# Wonka Capital

# Audit

**Security Assessment**  
**08. May, 2023**

**For**



**SolidProof\_io**



**@solidproof\_io**

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Version	Date	Description
1.0	02. May 2023	<ul style="list-style-type: none"><li>• Layout project</li><li>• Automated- /Manual-Security Testing</li><li>• Summary</li></ul>

**Note -** This Audit report consists of a security analysis of the Wonka Capital smart contracts. This analysis did not include functional testing (or unit testing) of the contract’s logic.

## **Network**

Binnacle Smart Chain

## **Website**

<https://www.wonka.capital/>

## **Telegram**

<https://t.me/wonkacapital>

## **Twitter**

<https://twitter.com/wonkacap>

## **TikTok**

<https://www.tiktok.com/@wonkacapital>



## Description

Wonka Capital is a DeFi token on Binance Smart Chain that utilizes a DAO model to solve the limitations of traditional investment funds. Our platform enables investors to have control and transparency over their investments through community-driven voting and transparent reporting.

## Project Engagement

During the 29th Date of April 2023, **Wonka Capital Team** engaged Solidproof.io to audit smart contracts 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://testnet.bscscan.com/address/0x80c8740732143ca5851fe6489839e73c428d608b#code>

<https://testnet.bscscan.com/address/0xbCF4E67C85BC58Be93DF315cA81f74223748f8c8#code>

<https://testnet.bscscan.com/address/0x47bda035d4bC2966d00b6C12c4221df2e7f352Fb#code>

<https://testnet.bscscan.com/address/0x3C313e9d8F44802fd244dF6E9379D3b9244b3453#code>

<https://testnet.bscscan.com/address/0xA25dCC4683Ebc738860988241164DA5e97d1E02a#code>

<https://testnet.bscscan.com/address/0x23ACf8f9295950DeDf4C1232c0954bd2d60c1f89#code>

### v1.1

<https://gitlab.com/bharatsinghowebest/wonka/-/tree/master/contracts>  
Commit: 6b5d2f2186fa3ff06d7e969363be72f86e853273

# 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)
<b>Critical</b>	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.
<b>High</b>	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 as possible.
<b>Medium</b>	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.
<b>Low</b>	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.
<b>Informational</b>	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.

## Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:

Dependency / Import Path	Count
@openzeppelin/contracts/access/Ownable.sol	6
@openzeppelin/contracts/security/ReentrancyGuard.sol	1
@openzeppelin/contracts/token/ERC20/ERC20.sol	1
@openzeppelin/contracts/token/ERC721/ERC721.sol	3
@openzeppelin/contracts/token/ERC721/extensions/ERC721Enumerable.sol	3
@openzeppelin/contracts/utils/Address.sol	5
@openzeppelin/contracts/utils/Context.sol	2
@openzeppelin/contracts/utils/Counters.sol	3
@openzeppelin/contracts/utils/math/SafeMath.sol	5



## 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

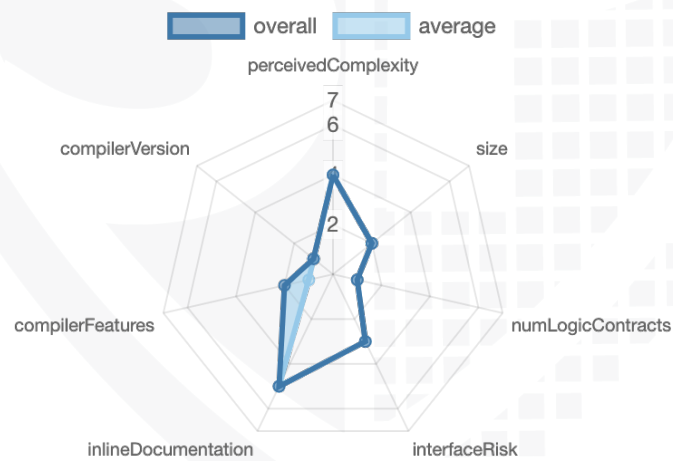
File Name	SHA-1 Hash
contracts/nft/ WonkaBronze.sol	6945e50c9b2f38855f8687f43aa97e923e 2cc328
contracts/nft/ WonkaSilver.sol	dc1b4cdc84cd0aa5c13c13e264c052e81 2f614dc
contracts/nft/WonkaGold.sol	5e5641ea7eb6a18f0501082c6ed3750bb 1561cfe
contracts/stake/ WonkaStake.sol	a1070d1940342c879d27b1a8ded7e35a 3f6a083f
contracts/token/ WonkaCapital.sol	6b5d1b53a68fe4ccc32b8fee5dacd30f7e 744742
contracts/otc/ WonkaExchange.sol	c0bf16c842052355a2109f5b33851e57b 6c1908b

# Metrics

## Source Lines v1.0



## Risk Level v1.0



# Capabilities

## Components

 Contracts	 Libraries	 Interfaces	 Abstract
6	0	5	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
92	6

External	Internal	Private	Pure	View
68	103	2	5	52

### StateVariables

Total	 Public
75	54

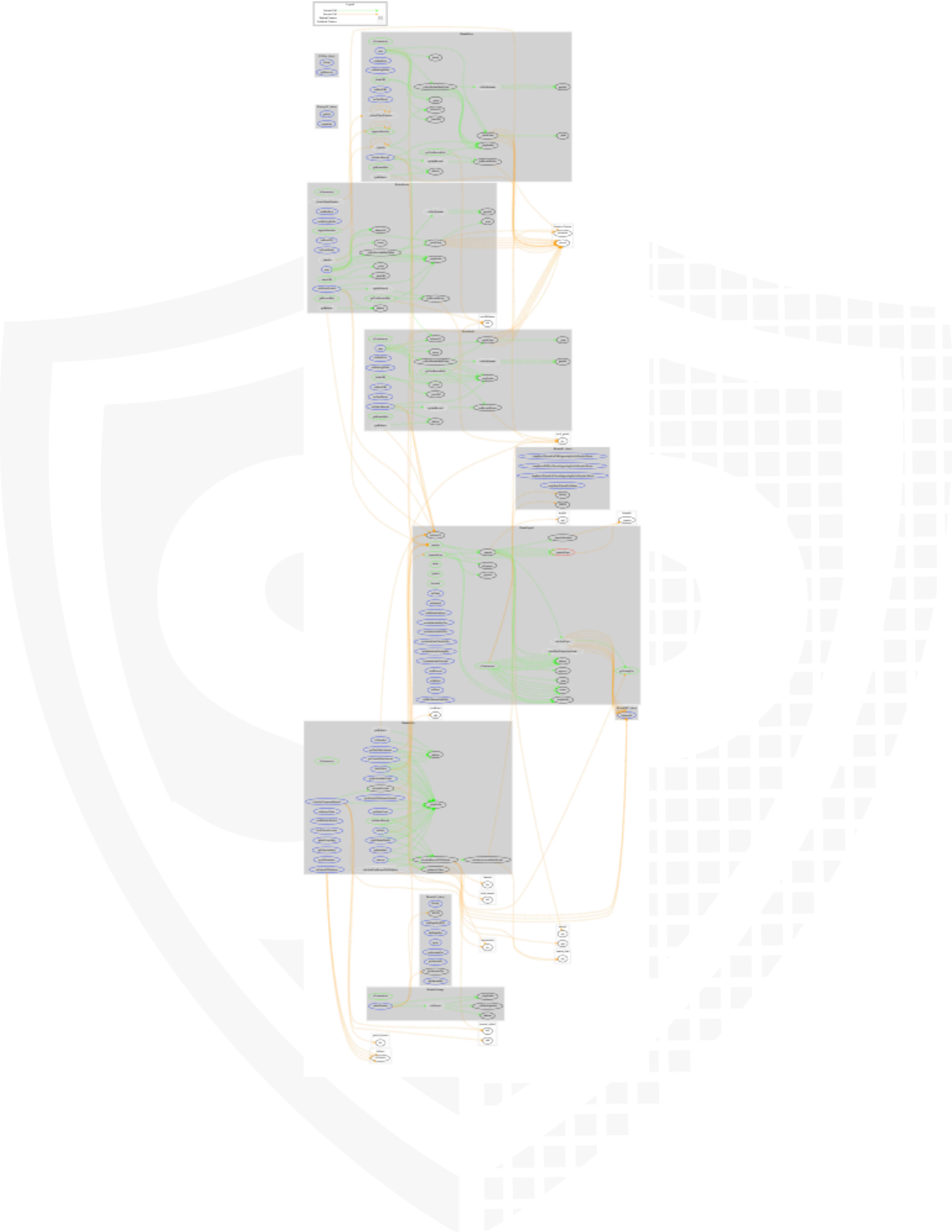
### Capabilities

Solidity Versions observed	 Experimental Features	 Can Receive Funds	 Uses Assembly	 Has Destroyable Contracts	
<div><div>^0.8.11</div><div>&gt;=0.8.11 &lt;0.9.0</div></div>		<div>yes</div>	<div></div>	<div></div>	
<div> Transfers ETH</div>	<div> Low-Level Calls</div>	<div> DelegateCall</div>	<div> Uses Hash Functions</div>	<div> ECRrecover</div>	<div> New/Create/Create2</div>
<div>yes</div>	<div></div>	<div></div>	<div>yes</div>	<div>yes</div>	<div></div>
<div> TryCatch</div>	<div>Σ Unchecked</div>				
<div></div>	<div></div>				

# Inheritance Graph

## 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

ERC721				
Function	Description	Exist	Tested	Verified
BalanceOf	Count all NFTs assigned to an owner	✓	✓	✓
OwnerOf	Find the owner of an NFT	✓	✓	✓
SafeTransferFrom	Transfers the ownership of an NFT from one address to another address	✓	✓	✓
SafeTransferFrom	See above - Difference is that this function has an extra data parameter	✓	✓	✓
TransferFrom	Transfer ownership of an NFT	✓	✓	✓
Approve	Change or reaffirm the approved address for an NFT	✓	✓	✓
SetApprovalForAll	Enable or disable approval for a third party ("operator") to manage all of `msg.sender`'s assets	✓	✓	✓
GetApproved	Get the approved address for a single NFT	✓	✓	✓
IsApprovedForAll	Query if an address is an authorized operator for another address	✓	✓	✓
SupportsInterface	Query if a contract implements an interface	✓	✓	✓
Name	Provides information about the name	✓	✓	✓
Symbol	Provides information about the symbol	✓	✓	✓
TokenURI	Provides information about the TokenUri	✓	✓	✓



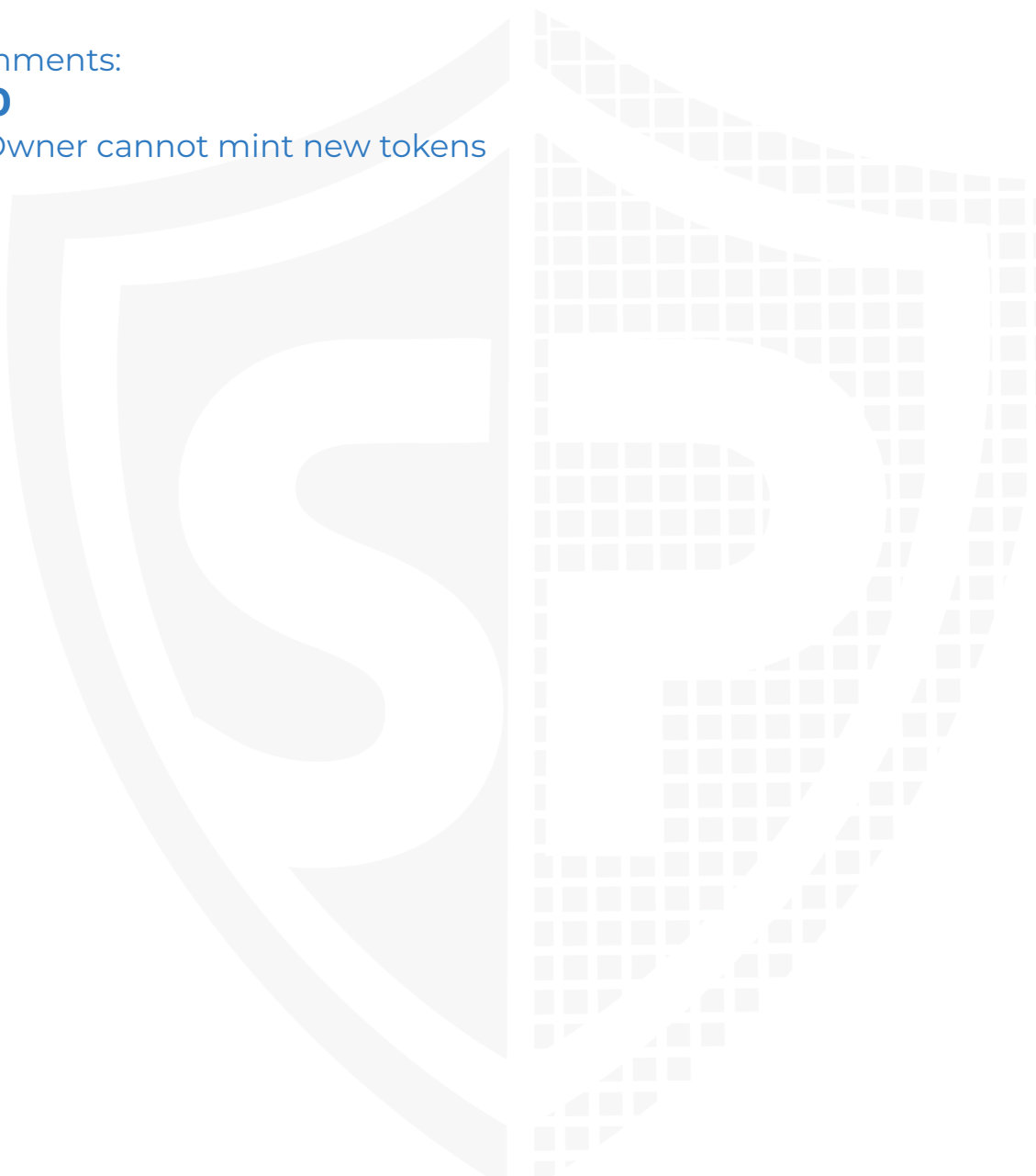
## Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	✓	✓	✓
Max / Total Supply	10_000_000_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	-	-	-

Comments:

### v1.0

- Owner can lock user funds by
  - blacklisting addresses
  - Setting max wallet amount to 0

## Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	✓	✓	✗

Comments:

**v1.0**

- Owner can pause the staking contract



## Deployer cannot set fees

Name	Exist	Tested	Status
Deployer cannot set fees over 20%	✓	✓	✓
Deployer cannot set fees to nearly 100% or to 100%	✓	✓	✓

Comments:

**v1.1**

- Fees cannot be set without any limitations

## Deployer can blacklist/antisnipe addresses

Name	Exist	Tested	Status
Deployer cannot blacklist/antisnipe addresses	✓	✓	✗

Comments:

**v1.0**

- Owner is able to blacklist 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

## WonkaGold

```

♦ mint 💰
♦ setMintPrice
Ⓜ onlyOwner
♦ setMultisigWallet
Ⓜ onlyOwner
♦ setBaseURI
Ⓜ onlyOwner
♦ setTotalWeeks
Ⓜ onlyOwner
♦ withdrawReward

```

## WonkaStake

```

♦ setTokenNFTAddress
Ⓜ onlyOwner
♦ setInterestValue
Ⓜ onlyOwner
♦ setMinStakeAmount
Ⓜ onlyOwner
♦ lockUnlockAccount
Ⓜ onlyOwner
♦ pauseEverything
Ⓜ onlyOwner
♦ stakeToken
Ⓜ nonReentrant
♦ reinvest
Ⓜ nonReentrant
♦ withdrawReward
Ⓜ nonReentrant
♦ unstake
Ⓜ nonReentrant

```

## WonkaCapital

```

♦ setName
Ⓜ onlyOwner
♦ setSymbol
Ⓜ onlyOwner
♦ setNftStakeAddress
Ⓜ onlyOwner
♦ excludeIncludeBuyTax
Ⓜ onlyOwner
♦ excludeIncludeSellTax
Ⓜ onlyOwner
♦ excludeIncludeTransferTax
Ⓜ onlyOwner
♦ excludeIncludeVestingTax
Ⓜ onlyOwner
♦ excludeIncludeTrxLimit
Ⓜ onlyOwner
♦ setIsFreezed
Ⓜ onlyOwner
♦ setWallets
Ⓜ onlyOwner
♦ setTaxes
Ⓜ onlyOwner
♦ setMaxTransactionLimit
Ⓜ onlyOwner
♦ transfer
♦ transferFrom

```

## Ownership/Authorized Privileges

### ❖ WonkaGold.sol

- Set mint price of token to any arbitrary value.
- Set multisig wallet address
- Set Total Weeks for rewards
- Set Base URI
- Owner can mint tokens without paying any fee but only once. Moreover if the owner wants then they can mint more than 1 token by transferring the ownership and then mint an NFT with the new wallet

**Note-** The privileges in the “*WonkaSilver*”, and “*WonkaBronze*” are as same as WonkaGold

### ❖ WonkaStake.sol

- Set Token addresses
- Set Minimum stake amount to any arbitrary value

- Set interest values for different tiers to any arbitrary value including zero.
- Lock and Unlock accounts. Thus, locked accounts won't be able to stake and unstake tokens. Beware of it as it is a blacklisting mechanism
- Pause all public functionality in the contract

❖ WonkaCapital.sol

- Set name and symbol
- Set NFT stake addresses
- Include/Exclude accounts from tax, and transaction limit
- Blacklist wallets from transferring tokens
- Set taxes to a maximum of 20%
- Set max transaction limit to any arbitrary value including zero and may lock user funds

**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/nft/WonkaBronze.sol	1	————	301	283	138	99	121
contracts/nft/WonkaSilver.sol	1	————	303	284	138	99	121
contracts/nft/WonkaGold.sol	1	————	304	285	138	100	121
contracts/stake/WonkaStake.sol	1	————	499	479	309	85	298
contracts/token/WonkaCapital.sol	1	5	553	486	390	16	255
contracts/otc/WonkaExchange.sol	1	————	109	77	44	49	46
<b>Totals</b>	<b>6</b>	<b>5</b>	<b>2069</b>	<b>1894</b>	<b>1157</b>	<b>448</b>	<b>962</b>

### 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

Issue	File	Type	Line	Description	Status
#1	WonkaStake.sol	Owner can lock funds	132	Owner can blacklist accounts and if it is done for an account that has already deposited tokens then the users' of those accounts won't be able to withdraw their tokens. We recommend removing the lock functionality from rewards and staked amount	Fixed
#2	WonkaCapital.sol	Fees can be 100% or more	373	Owner can set buy, sell, vesting and transfer fee to 100% or more which may lead to loss of user funds. We recommend putting a maximum limit on the taxes.	Fixed

## Low issues

Issue	File	Type	Line	Description	Status
#1	All	A floating pragma is set	—	The current pragma Solidity directive is „^0.8.11”.	Open
#2	WonkaCapital.sol	Missing Zero Address Validation (missing-zero-check)	280, 316	Check that the address is not zero	Open
#3	WonkaCapital.sol	Local variables shadowing	98, 99	Rename the local variables that shadow another component	Open

#4	WonkaCapital.sol	Missing Events Arithmetic	225-384	Emit an event for critical parameter changes	Open
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## Informational issues

Issue	File	Type	Line	Description	Status
#1	WonkaBronze.sol	State variables that could be declared constant (constable-states)	42, 44	Add the `constant` attributes to state variables that never change	Fixed
#2	WonkaStake.sol	Functions that are not used	412, 496	Remove unused functions.  Before removing check the function, it could be possible, that you forget to implement it into the contract	Fixed
#3	WonkaCapital.sol	State variables that could be declared constant (constable-states)	100-104	Add the `constant` attributes to state variables that never change	Fixed
#4	WonkaGold.sol	State variables that could be declared constant (constable-states)	45, 47	Add the `constant` attributes to state variables that never change	Fixed
#5	All	NatSpec documentation missing	—	If you started to comment your code, also comment all other functions, variables etc.	Open

## 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.

### **08. May 2023:**

- Unit tests with 100% code coverage was not provided to SolidProof so we cannot ensure complete functional correctness of the code's logic.
- We recommend Wonka Capital team to conduct unit and fuzz tests thoroughly to rule out possibilities of an unwanted logical and calculation errors.
- There is still an owner (Owner still has not renounced ownership)
- Owner can deploy a new version of the contract which can change any limit and give owner new privileges
- Read whole report and modifiers section for more information



## SWC Attacks

ID	Title	Relationships	Status
<a href="#">SW C-1 36</a>	Unencrypted Private Data On-Chain	<a href="#">CWE-767: Access to Critical Private Variable via Public Method</a>	PASSED
<a href="#">SW C-1 35</a>	Code With No Effects	<a href="#">CWE-1164: Irrelevant Code</a>	PASSED
<a href="#">SW C-1 34</a>	Message call with hardcoded gas amount	<a href="#">CWE-655: Improper Initialization</a>	PASSED
<a href="#">SW C-1 33</a>	Hash Collisions With Multiple Variable Length Arguments	<a href="#">CWE-294: Authentication Bypass by Capture-replay</a>	PASSED
<a href="#">SW C-1 32</a>	Unexpected Ether balance	<a href="#">CWE-667: Improper Locking</a>	PASSED
<a href="#">SW C-1 31</a>	Presence of unused variables	<a href="#">CWE-1164: Irrelevant Code</a>	NOT PASSED
<a href="#">SW C-1 30</a>	Right-To-Left-Override control character (U+202E)	<a href="#">CWE-451: User Interface (UI) Misrepresentation of Critical Information</a>	PASSED
<a href="#">SW C-1 29</a>	Typographical Error	<a href="#">CWE-480: Use of Incorrect Operator</a>	PASSED
<a href="#">SW C-1 28</a>	DoS With Block Gas Limit	<a href="#">CWE-400: Uncontrolled Resource Consumption</a>	PASSED

<a href="#">SW C-1 27</a>	Arbitrary Jump with Function Type Variable	<a href="#">CWE-695: Use of Low-Level Functionality</a>	<b>PASSED</b>
<a href="#">SW C-1 25</a>	Incorrect Inheritance Order	<a href="#">CWE-696: Incorrect Behavior Order</a>	<b>PASSED</b>
<a href="#">SW C-1 24</a>	Write to Arbitrary Storage Location	<a href="#">CWE-123: Write-what-where Condition</a>	<b>PASSED</b>
<a href="#">SW C-1 23</a>	Requirement Violation	<a href="#">CWE-573: Improper Following of Specification by Caller</a>	<b>PASSED</b>
<a href="#">SW C-1 22</a>	Lack of Proper Signature Verification	<a href="#">CWE-345: Insufficient Verification of Data Authenticity</a>	<b>PASSED</b>
<a href="#">SW C-1 21</a>	Missing Protection against Signature Replay Attacks	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	<b>PASSED</b>
<a href="#">SW C-1 20</a>	Weak Sources of Randomness from Chain Attributes	<a href="#">CWE-330: Use of Insufficiently Random Values</a>	<b>PASSED</b>
<a href="#">SW C-11 9</a>	Shadowing State Variables	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>NOT PASSED</b>
<a href="#">SW C-11 8</a>	Incorrect Constructor Name	<a href="#">CWE-665: Improper Initialization</a>	<b>PASSED</b>
<a href="#">SW C-11 7</a>	Signature Malleability	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	<b>PASSED</b>

<a href="#">SW C-11 6</a>	Timestamp Dependence	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	<b>PASSED</b>
<a href="#">SW C-11 5</a>	Authorization through tx.origin	<a href="#">CWE-477: Use of Obsolete Function</a>	<b>PASSED</b>
<a href="#">SW C-11 4</a>	Transaction Order Dependence	<a href="#">CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')</a>	<b>PASSED</b>
<a href="#">SW C-11 3</a>	DoS with Failed Call	<a href="#">CWE-703: Improper Check or Handling of Exceptional Conditions</a>	<b>PASSED</b>
<a href="#">SW C-11 2</a>	Delegatecall to Untrusted Callee	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	<b>PASSED</b>
<a href="#">SW C-11 1</a>	Use of Deprecated Solidity Functions	<a href="#">CWE-477: Use of Obsolete Function</a>	<b>PASSED</b>
<a href="#">SW C-11 0</a>	Assert Violation	<a href="#">CWE-670: Always-Incorrect Control Flow Implementation</a>	<b>PASSED</b>
<a href="#">SW C-1 09</a>	Uninitialized Storage Pointer	<a href="#">CWE-824: Access of Uninitialized Pointer</a>	<b>PASSED</b>
<a href="#">SW C-1 08</a>	State Variable Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>
<a href="#">SW C-1 07</a>	Reentrancy	<a href="#">CWE-841: Improper Enforcement of Behavioral Workflow</a>	<b>PASSED</b>
<a href="#">SW C-1 06</a>	Unprotected SELFDESTRUCT Instruction	<a href="#">CWE-284: Improper Access Control</a>	<b>PASSED</b>

<a href="#">SW</a> <a href="#">C-1</a> <a href="#">05</a>	Unprotected Ether Withdrawal	<a href="#">CWE-284: Improper Access Control</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">04</a>	Unchecked Call Return Value	<a href="#">CWE-252: Unchecked Return Value</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">03</a>	Floating Pragma	<a href="#">CWE-664: Improper Control of a Resource Through its Lifetime</a>	<b>NOT PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">02</a>	Outdated Compiler Version	<a href="#">CWE-937: Using Components with Known Vulnerabilities</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">01</a>	Integer Overflow and Underflow	<a href="#">CWE-682: Incorrect Calculation</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">00</a>	Function Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>



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