

SURGE

Smart Contract Audit Report





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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
SURGE	SRG	Binance Smart Chain	

Addresses

Contract address	0x9f19c8e321bd14345b797d43e01f0eed030f5bff
Contract deployer address	0xc207cd3f61Da958AA6f4209C5f0a145C056B576f

Project Website

https://surgeprotocol.io/

Codebase

https://bscscan.com/address/0x9f19c8e321bd14345b797d43e01f0eed030f5bff#code



SUMMARY

Launching a token on SURGE comes with a first of its kind advantage: project owners can set the starting price of their tokens manually and can therefore enable trading without the need of a starting liquidity. This eliminates the need and the risk of any form of presale. On top, the token can benefit from the already existing swap and charting system for free. To be compatible, the token has to meet a set of predetermined rules, which include the buy and sell functions of the \$SRG contract, as well as security standards like the everlasting liquidity pool. After meeting the criteria, any project owner / developer can launch with SURGE without the need to ask for permission.

Contract Summary

Documentation Quality

SURGE provides a very poor documentation with standard of solidity base code.

• The technical description is provided unclear and disorganized.

Code Quality

The Overall quality of the basecode is poor.

Solidity basecode and rules are unclear and disorganized by SURGE.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-107 | It is recommended to use a reentrancy lock, reentrancy weaknesses detected on lines 535, 538, 539, 541, 544, 722, 723, 540, 661, 662, 661, 665 and 33.
- SWC-113 SWC-128 | It is recommended to implement the contract logic to handle failed calls and block gas limit on lines 723 and 661.
- SWC-116 | It is recommended to use oracles for block values as a proxy for time on lines 394, 404, 403 and 503.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 397, 507 and 506.



CONCLUSION

We have audited the SURGE project released on January 2023 to find issues and identify potential security vulnerabilities in the SURGE project. This process is used to find technical issues and security loopholes that may be found in smart contracts.

The security audit report yielded unsatisfactory results, discovering medium-risk and low-risk issues.

Writing a contract that does not follow the Solidity style guide can pose a significant risk. The medium and low problems we found in the smart contract are Multiple calls are executed in the same transaction, This call is executed following another call within the same transaction. It is possible that the call never gets executed if a prior call fails permanently. This might be caused intentionally by a malicious callee. If possible, refactor the code such that each transaction only executes one external call or make sure that all callees can be trusted (i.e. they're part of your own codebase). Low-risk issue read or write of persistent state following the external call, control flow decision is made based on The block.timestamp environment variable, and potential use of "block.number" as a source of randomness. The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state. The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

We were recommended to keep being aware of investing in this risky smart contract.



AUDIT RESULT

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	PASS	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	PASS	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	essage call should be PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.		
Reentrancy	SWC-107	107 Check effect interaction pattern should be followed if the code performs recursive call. ISSUE FOUND		
Uninitialized Storage Pointer	SWC-109		PASS	
Assert Violation	SWC-110 SWC-123			
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.		



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	ISSUE FOUND
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	ISSUE FOUND
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	SWC-124 authorized user or contract accounts may write to		PASS
Incorrect Inheritance Order When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.		PASS	
Insufficient Gas Griefing	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.		PASS
Arbitrary Jump Function	SWC-127		PASS



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



SMART CONTRACT ANALYSIS

Started	Thursday Jan 12 2023 05:41:37 GMT+0000 (Coordinated Universal Time)		
Finished	Friday Jan 13 2023 05:42:33 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	SURGE.sol Surgerial Surger		

Detected Issues

ID	Title	Severity	Status
SWC-113	MULTIPLE CALLS ARE EXECUTED IN THE SAME TRANSACTION.	medium	acknowledged
SWC-113	MULTIPLE CALLS ARE EXECUTED IN THE SAME TRANSACTION.	medium	acknowledged
SWC-107	READ OF PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
SWC-107	READ OF PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
SWC-107	READ OF PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
SWC-107	READ OF PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
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SWC-107	READ OF PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
SWC-107	READ OF PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
SWC-107	READ OF PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
SWC-107	WRITE TO PERSISTENT STATE FOLLOWING EXTERNAL CALL	low	acknowledged



SWC-107	WRITE TO PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
SWC-107	WRITE TO PERSISTENT STATE FOLLOWING EXTERNAL CALL.	low	acknowledged
SWC-116	A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.TIMESTAMP ENVIRONMENT VARIABLE.	low	acknowledged
SWC-116	A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.TIMESTAMP ENVIRONMENT VARIABLE.	low	acknowledged
SWC-116	A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.TIMESTAMP ENVIRONMENT VARIABLE.	low	acknowledged
SWC-116	A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.TIMESTAMP ENVIRONMENT VARIABLE.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged
SWC-120	A CONTROL FLOW DECISION IS MADE BASED ON THE BLOCK.NUMBER ENVIRONMENT VARIABLE.	low	acknowledged



SWC-113 | MULTIPLE CALLS ARE EXECUTED IN THE SAME TRANSACTION.

LINE 723

medium SEVERITY

This call is executed following another call within the same transaction. It is possible that the call never gets executed if a prior call fails permanently. This might be caused intentionally by a malicious callee. If possible, refactor the code such that each transaction only executes one external call or make sure that all callees can be trusted (i.e. they're part of your own codebase).

Source File

- SURGE.sol

```
722    IPancakePair pair = IPancakePair(stablePairAddress);
723    IERC20 token1 = pair.token0() == stableAddress
724    ? IERC20(pair.token1())
725    : IERC20(pair.token0());
726
727
```



SWC-113 | MULTIPLE CALLS ARE EXECUTED IN THE SAME TRANSACTION.

LINE 661

medium SEVERITY

This call is executed following another call within the same transaction. It is possible that the call never gets executed if a prior call fails permanently. This might be caused intentionally by a malicious callee. If possible, refactor the code such that each transaction only executes one external call or make sure that all callees can be trusted (i.e. they're part of your own codebase).

Source File

- SURGE.sol

```
660 }("");
661 (bool temp2, ) = payable(treasuryWallet).call{
662 value: (taxBalance * treasuryShare) / SHAREDIVISOR
663 }("");
664 assert(temp1 && temp2);
665
```



LINE 535

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
534  // subtract full amount from sender
535  _balances[seller] = _balances[seller] - tokenAmount;
536
537  //add tax allowance to be withdrawn and remove from liq the amount of beans taken
by the seller
538  taxBalance = isFeeExempt[msg.sender]
539
```



LINE 538

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
537  //add tax allowance to be withdrawn and remove from liq the amount of beans taken
by the seller
538  taxBalance = isFeeExempt[msg.sender]
539  ? taxBalance
540  : taxBalance + amountTax;
541  liquidity = liquidity - amountBNB;
542
```



LINE 539

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
538  taxBalance = isFeeExempt[msg.sender]
539  ? taxBalance
540  : taxBalance + amountTax;
541  liquidity = liquidity - amountBNB;
542
543
```



LINE 541

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
540 : taxBalance + amountTax;
541  liquidity = liquidity - amountBNB;
542
543  // add tokens back into the contract
544  _balances[address(this)] = _balances[address(this)] + tokenAmount;
545
```



LINE 544

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
// add tokens back into the contract
    _balances[address(this)] = _balances[address(this)] + tokenAmount;

// update volume
// uint256 cTime = block.timestamp;

// add tokens back into the contract
// add tokens back into the
```



LINE 722

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
function getBNBPrice() public view returns (uint256) {
functi
```



LINE 723

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
722    IPancakePair pair = IPancakePair(stablePairAddress);
723    IERC20 token1 = pair.token0() == stableAddress
724    ? IERC20(pair.token1())
725    : IERC20(pair.token0());
726
727
```



LINE 540

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol



LINE 661

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
660 }("");
661 (bool temp2, ) = payable(treasuryWallet).call{
662 value: (taxBalance * treasuryShare) / SHAREDIVISOR
663 }("");
664 assert(temp1 && temp2);
665
```



LINE 662

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol



LINE 662

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol



LINE 661

low SEVERITY

The contract account state is accessed after an external call to a fixed address. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
660 }("");
661 (bool temp2, ) = payable(treasuryWallet).call{
662 value: (taxBalance * treasuryShare) / SHAREDIVISOR
663 }("");
664 assert(temp1 && temp2);
665
```



LINE 665

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
664 assert(temp1 && temp2);
665 taxBalance = 0;
666 }
667
668 function getTokenAmountOut(uint256 amountBNBIn)
669
```



LINE 33

low SEVERITY

The contract account state is accessed after an external call. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source File

- SURGE.sol

```
32 _;
33 _status = _NOT_ENTERED;
34 }
35 }
36
37
```



LINE 394

low SEVERITY

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SURGE.sol

```
393  // deadline requirement
394  require(deadline >= block.timestamp, "Deadline EXPIRED");
395
396  // Frontrun Guard
397  _lastBuyBlock[msg.sender] = block.number;
398
```



LINE 404

low SEVERITY

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SURGE.sol

```
403 require(
404 block.timestamp >= TRADE_OPEN_TIME ||
405 msg.sender == MIGRATION_WALLET,
406 "Trading is not Open"
407 );
408
```



LINE 403

low SEVERITY

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SURGE.sol

```
402  // check if trading is open or whether the buying wallet is the migration one
403  require(
404  block.timestamp >= TRADE_OPEN_TIME ||
405  msg.sender == MIGRATION_WALLET,
406  "Trading is not Open"
407
```



LINE 503

low SEVERITY

The block timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SURGE.sol

```
502  // deadline requirement
503  require(deadline >= block.timestamp, "Deadline EXPIRED");
504
505  //Frontrun Guard
506  require(
507
```



SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 397

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SURGE.sol

```
396  // Frontrun Guard
397  _lastBuyBlock[msg.sender] = block.number;
398
399  // liquidity is set
400  require(liquidity > 0, "The token has no liquidity");
401
```



SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 507

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SURGE.sol

```
506 require(
507 _lastBuyBlock[msg.sender] != block.number,
508 "Buying and selling in the same block is not allowed!"
509 );
510
511
```



LINE 506

low SEVERITY

The block.number environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- SURGE.sol

```
505 //Frontrun Guard
506 require(
507 _lastBuyBlock[msg.sender] != block.number,
508 "Buying and selling in the same block is not allowed!"
509 );
510
```



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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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