

Shido Inu
Smart Contract
Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
Shido Inu	SHIDO	Binance Smart Chain	

Addresses

Contract address	0x733af324146dcfe743515d8d77dc25140a07f9e0
Contract deployer address	0x7ef6E527969054afbc0980E00C51D2E645b4A5ef

Project Website

https://www.shido.finance/

Codebase

https://bscscan.com/address/0x733af324146dcfe743515d8d77dc25140a07f9e0#code



SUMMARY

The Shido Ecosystem started to take shape during autumn of 2021. A group of experienced crypto developers and investors were exchanging ideas of what an ideal crypto project should look like. After agreeing on every point, and coming to the conclusion that we shared the same end goal and vision, we started working on what is now known as Shido. Our mission is to introduce and create a safe entry to crypto for investors. We seek to make our project a safe and easy way to invest while simultaneously bridging the gap between traditional fiat currencies and cryptocurrencies. There has never been an easier way to grow your wealth and earn passive income. The journey for Shido is just beginning. With the help of our community, we believe we will accomplish and achieve our goals. We want to make sure that every voice is heard, and let the community dictate the path, in which Shido will journey. We have a lot of exciting news and a powerful roadmap to share with you throughout the year. We look forward to this journey with each and every member of our community. You can join the Shido Family through any of our social platforms.

Contract Summary

Documentation Quality

Shido Inu provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

 Standard solidity basecode and rules are already followed by Shido Inu with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 973.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 213, 227, 242, 243, 256, 268, 283, 297, 311, 325, 341, 364, 387, 413, 1008, 1010, 1014, 1024, 1024, 1024, 1037, 1037, 1049, 1237, 1239, 1281, 1290, 1398, 1432, 1440, 1449 and 1239.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 1238, 1239, 1239, 1400, 1401, 1403, 1404, 1556 and 1557.



CONCLUSION

We have audited the Shido Inu project released on January 2023 to discover issues and identify potential security vulnerabilities in Shido Inu Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The Shido Inu smart contract code issues do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a state variable visibility is not set, and out-of-bounds array access which the index access expression can cause an exception in case an invalid array index value is used. It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.



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.		
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.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	ile it PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	d PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	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.	PASS	



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	
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.	
Signature Unique ID	Unique 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 '		PASS
Shadowing State Variable	SWC-119 State variables should not be shadowed.		PASS
Weak Sources of Randomness	SWC-120		PASS
Write to Arbitrary Storage Location	SWC-124 user or contract accounts may write to sensitive storage		PASS
Incorrect Inheritance Order	SWC-125		PASS
Insufficient Gas Griefing	SWC-126 contracts which accept data and use it in a sub-call on		PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	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.	
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.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133		PASS
Hardcoded gas amount	SWC-134		PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



SMART CONTRACT ANALYSIS

Started	Thursday Mar 03 2022 22:35:42 GMT+0000 (Coordinated Universal Time)
Finished	Friday Mar 04 2022 18:05:53 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	AntiBotLiquidityGeneratorToken.sol

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 213

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
212  unchecked {
213  uint256 c = a + b;
214  if (c < a) return (false, 0);
215  return (true, c);
216  }
217</pre>
```



LINE 227

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
226 if (b > a) return (false, 0);
227 return (true, a - b);
228 }
229 }
230
231
```



LINE 242

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
241 if (a == 0) return (true, 0);

242 uint256 c = a * b;

243 if (c / a != b) return (false, 0);

244 return (true, c);

245 }

246
```



LINE 243

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
242  uint256 c = a * b;

243  if (c / a != b) return (false, 0);

244  return (true, c);

245  }

246  }

247
```



LINE 256

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
255 if (b == 0) return (false, 0);
256 return (true, a / b);
257 }
258 }
259
260
```



LINE 268

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
267 if (b == 0) return (false, 0);
268 return (true, a % b);
269 }
270 }
271
272
```



LINE 283

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
282 function add(uint256 a, uint256 b) internal pure returns (uint256) {
283  return a + b;
284 }
285
286  /**
287
```



LINE 297

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
296 function sub(uint256 a, uint256 b) internal pure returns (uint256) {
297  return a - b;
298  }
299
300  /**
301
```



LINE 311

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
310 function mul(uint256 a, uint256 b) internal pure returns (uint256) {
311 return a * b;
312 }
313
314 /**
315
```



LINE 325

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
324 function div(uint256 a, uint256 b) internal pure returns (uint256) {
325  return a / b;
326  }
327
328  /**
329
```



LINE 341

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
340 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
341  return a % b;
342  }
343
344  /**
345
```



LINE 364

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
363  require(b <= a, errorMessage);
364  return a - b;
365  }
366  }
367
368</pre>
```



LINE 387

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
386 require(b > 0, errorMessage);
387 return a / b;
388 }
389 }
390
391
```



LINE 413

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
412 require(b > 0, errorMessage);
413 return a % b;
414 }
415 }
416 }
417
```



LINE 1008

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1007  ) payable {
1008  require(taxFeeBps_ >= 0 && taxFeeBps_ <= 10**4, "Invalid tax fee");
1009  require(
1010  liquidityFeeBps_ >= 0 && liquidityFeeBps_ <= 10**4,
1011  "Invalid liquidity fee"
1012</pre>
```



LINE 1010

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidityGeneratorToken.sol$

```
1009 require(
1010 liquidityFeeBps_ >= 0 && liquidityFeeBps_ <= 10**4,
1011 "Invalid liquidity fee"
1012 );
1013 require(
1014</pre>
```



LINE 1014

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidityGeneratorToken.sol$

```
1013 require(
1014 charityFeeBps_ >= 0 && charityFeeBps_ <= 10**4,
1015 "Invalid charity fee"
1016 );
1017 if (charityAddress_ == address(0)) {
1018</pre>
```



LINE 1024

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidityGeneratorToken.sol$

```
1023 require(
1024 taxFeeBps_ + liquidityFeeBps_ + charityFeeBps_ <= 10**4,
1025 "Total fee is over 100% of transfer amount"
1026 );
1027
1028</pre>
```



LINE 1024

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidityGeneratorToken.sol$

```
1023 require(
1024 taxFeeBps_ + liquidityFeeBps_ + charityFeeBps_ <= 10**4,
1025 "Total fee is over 100% of transfer amount"
1026 );
1027
1028</pre>
```



LINE 1024

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidityGeneratorToken.sol$

```
1023 require(
1024 taxFeeBps_ + liquidityFeeBps_ + charityFeeBps_ <= 10**4,
1025 "Total fee is over 100% of transfer amount"
1026 );
1027
1028</pre>
```



LINE 1037

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidity Generator Token. sol$

```
1036 _tTotal = totalSupply_;
1037 _rTotal = (MAX - (MAX % _tTotal));
1038
1039 _taxFee = taxFeeBps_;
1040 _previousTaxFee = _taxFee;
1041
```



LINE 1037

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidity Generator Token. sol$

```
1036 _tTotal = totalSupply_;
1037 _rTotal = (MAX - (MAX % _tTotal));
1038
1039 _taxFee = taxFeeBps_;
1040 _previousTaxFee = _taxFee;
1041
```



LINE 1049

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1048
1049 numTokensSellToAddToLiquidity = totalSupply_.mul(5).div(10**4); // 0.05%
1050
1051 swapAndLiquifyEnabled = true;
1052
1053
```



LINE 1237

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
require(_isExcluded[account], "Account is already excluded");
for (uint256 i = 0; i < _excluded.length; i++) {
  if (_excluded[i] == account) {
    _excluded[i] = _excluded.length - 1];
    _tOwned[account] = 0;
}</pre>
```



LINE 1239

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidityGeneratorToken.sol$



LINE 1281

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidityGeneratorToken.sol$

```
function setTaxFeePercent(uint256 taxFeeBps) external onlyOwner {
  require(taxFeeBps >= 0 && taxFeeBps <= 10**4, "Invalid bps");
  taxFee = taxFeeBps;
  }
  1283  }
  1284
  1285</pre>
```



LINE 1290

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

 $\hbox{-} AntiBotLiquidityGeneratorToken.sol$

```
1289 require(
1290 liquidityFeeBps >= 0 && liquidityFeeBps <= 10**4,
1291 "Invalid bps"
1292 );
1293 _liquidityFee = liquidityFeeBps;
1294</pre>
```



LINE 1398

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol



LINE 1432

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
function calculateTaxFee(uint256 _amount) private view returns (uint256) {
  return _amount.mul(_taxFee).div(10**4);
  }
1433  }
1434
1435  function calculateLiquidityFee(uint256 _amount)
1436
```



LINE 1440

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1439 {
1440  return _amount.mul(_liquidityFee).div(10**4);
1441 }
1442
1443  function calculateCharityFee(uint256 _amount)
1444
```



LINE 1449

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1448  if (_charityAddress == address(0)) return 0;
1449   return _amount.mul(_charityFee).div(10**4);
1450  }
1451
1452  function removeAllFee() private {
1453
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 1239

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiBotLiquidityGeneratorToken.sol



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 973

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

Source File

- AntiBot Liquidity Generator Token. sol

```
972
973 bool inSwapAndLiquify;
974 bool public swapAndLiquifyEnabled;
975
976 uint256 private numTokensSellToAddToLiquidity;
977
```



LINE 1238

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol



LINE 1239

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol



LINE 1239

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol



LINE 1400

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
if (
1400    _rOwned[_excluded[i]] > rSupply ||
1401    _tOwned[_excluded[i]] > tSupply
1402    ) return (_rTotal, _tTotal);
1403    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1404
```



LINE 1401

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1400    _rOwned[_excluded[i]] > rSupply ||
1401    _tOwned[_excluded[i]] > tSupply
1402    ) return (_rTotal, _tTotal);
1403    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1404    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1405
```



LINE 1403

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1402  ) return (_rTotal, _tTotal);
1403  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1404  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1405  }
1406  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1407</pre>
```



LINE 1404

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1403  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1404  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1405  }
1406  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1407  return (rSupply, tSupply);
1408</pre>
```



LINE 1556

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1555  address[] memory path = new address[](2);
1556  path[0] = address(this);
1557  path[1] = uniswapV2Router.WETH();
1558
1559  _approve(address(this), address(uniswapV2Router), tokenAmount);
1560
```



LINE 1557

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiBotLiquidityGeneratorToken.sol

```
1556 path[0] = address(this);
1557 path[1] = uniswapV2Router.WETH();
1558
1559 _approve(address(this), address(uniswapV2Router), tokenAmount);
1560
1561
```



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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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