

Started

Finished Mon Jul 03 2023 19:04:04 GMT+0000 (Coordinated Universal Time)

Mode Standard

Client Tool Mythx-Cli-0.7.3

Main Source File Contracts/SilicaV2_1.sol

DETECTED VULNERABILITIES

HIGH

MEDIUM

LOW

0

0

2

ISSUES

LOW

SWC-103

A floating pragma is set.

The current pragma Solidity directive is ""^0.8.6"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

contracts/SilicaV2_1.sol

Locations

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.6;
3
4 import {AbstractSilicaV2_1} from "./AbstractSilicaV2_1.sol";
```

LOW

Requirement violation.

A requirement was violated in a nested call and the call was reverted as a result. Make sure valid inputs are provided to the nested call (for instance, via passed arguments).

SWC-123

Source file

contracts/SilicaV2_1.sol

Locations

```
21 | /// @notice Function to return the last day silica is synced with Oracle
22 | function getLastIndexedDay() internal view override returns (uint32) {
23 |     IOracle oracle = IOracle(IOracleRegistry{oracleRegistry}.getOracleAddress(address{rewardToken}, COMMODITY_TYPE));
24 |     uint32 lastIndexedDayMem = oracle.getLastIndexedDay();
25 |     require(lastIndexedDayMem != 0, "Invalid State");
```

Source file

contracts/SilicaV2_1.sol

Locations

```
10 | import "@openzeppelin/contracts/token/ERC20/ERC20.sol";
11 |
12 | contract SilicaV2_1 is AbstractSilicaV2_1
13 |     uint8 internal constant COMMODITY_TYPE = 0;
14 |
15 |     function decimals() public pure override returns (uint8) {
16 |         return 15;
17 |     }
18 |
19 |     constructor() ERC20("Silica", "SLC") {}
20 |
21 |     /// @notice Function to return the last day silica is synced with Oracle
22 |     function getLastIndexedDay() internal view override returns (uint32) {
23 |         IOracle oracle = IOracle(IOracleRegistry{oracleRegistry}.getOracleAddress(address{rewardToken}, COMMODITY_TYPE));
24 |         uint32 lastIndexedDayMem = oracle.getLastIndexedDay();
25 |         require(lastIndexedDayMem != 0, "Invalid State");
26 |
27 |         return lastIndexedDayMem;
28 |     }
29 |
30 |     /// @notice Function to return the amount of rewards due by the seller to the contract on day inputed
31 |     function getRewardDueOnDay(uint256 _day) internal view override returns (uint256) {
32 |         IOracle oracle = IOracle(IOracleRegistry{oracleRegistry}.getOracleAddress(address{rewardToken}, COMMODITY_TYPE));
33 |         (, uint256 networkHashrate, uint256 networkReward, ,) = oracle.get(_day);
34 |
35 |         return RewardMath.getMiningRewardDue(totalSupply(), networkReward, networkHashrate);
36 |     }
37 |
38 |     /// @notice Function to return an array with the amount of rewards due by the seller to the contract on days in range inputed
39 |     function getRewardDueInRange(uint256 _firstDay, uint256 _lastDay) internal view override returns (uint256[] memory) {
40 |         IOracle oracle = IOracle(IOracleRegistry{oracleRegistry}.getOracleAddress(address{rewardToken}, COMMODITY_TYPE));
41 |         uint256[] memory hashrateArray, uint256[] memory rewardArray = oracle.getInRange(_firstDay, _lastDay);
42 |
43 |         uint256[] memory rewardDueArray = new uint256[](hashrateArray.length);
44 |
45 |         uint256 totalSupplyCopy = totalSupply();
46 |         for (uint256 i = 0; i < hashrateArray.length; i++) {
47 |             rewardDueArray[i] = RewardMath.getMiningRewardDue(totalSupplyCopy, rewardArray[i], hashrateArray[i]);
48 |         }
49 |
50 |         return rewardDueArray;
51 |     }
52 |
53 |     /// @notice Returns the commodity type the seller is selling with this contract
```

```
54 /// @return The commodity type the seller is selling with this contract
55 function getCommodityType() external pure override returns (uint8) {
56     return COMMODITY_TYPE;
57 }
58
59 /// @notice Returns decimals of the contract
60 function getDecimals() external pure override returns (uint8) {
61     return decimals();
62 }
63 }
```