

Security Assessment

Seedify finance Locked-Yield-Farming

CertiK Assessed on Nov 13th, 2023







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Seedify finance Locked-Yield-Farming

The security assessment was prepared by CertiK, the leader in Web3.0 security.

Executive Summary

TYPES ECOSYSTEM METHODS

Farming EVM Compatible Manual Review, Static Analysis

LANGUAGE TIMELINE KEY COMPONENTS

Solidity Delivered on 11/13/2023 N/A

CODEBASE

https://github.com/Seedifyfund/Locked-Yield-Farming/blob/main/contracts/LockedFarming.sol

View All in Codebase Page

COMMITS

- def3af9ebf0f78af2235e3f98ff2e501cc118d2d
- 49e987095e999cee9602ea9421452162ef57a354
- 626d304d632b06ab8b660f83ceeab33b916b50a7

View All in Codebase Page

Highlighted Centralization Risks

Withdraws can be disabled

Vulnerability Summary

9 Total Findings	6 Resolved	O Mitigated	O Partially Resolved	3 Acknowledged	O Declined
■ 0 Critical			a platform an	are those that impact the safe d must be addressed before lavest in any project with outstan	aunch. Users
2 Major	2 Acknowledged		errors. Under	an include centralization issue r specific circumstances, these ass of funds and/or control of the	e major risks
0 Medium				s may not pose a direct risk to affect the overall functioning o	
■ 5 Minor	4 Resolved, 1 Acknowledged		scale. They g	an be any of the above, but or generally do not compromise the e project, but they may be less as.	he overall
■ 2 Informational	2 Resolved		improve the s	errors are often recommenda style of the code or certain ope y best practices. They usually nctioning of the code.	erations to fall





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Disclaimer



CODEBASE SEEDIFY FINANCE LOCKED-YIELD-FARMING

Repository

https://github.com/Seedifyfund/Locked-Yield-Farming/blob/main/contracts/LockedFarming.sol

Commit

- def3af9ebf0f78af2235e3f98ff2e501cc118d2d
- 49e987095e999cee9602ea9421452162ef57a354
- 626d304d632b06ab8b660f83ceeab33b916b50a7



AUDIT SCOPE | SEEDIFY FINANCE LOCKED-YIELD-FARMING

3 files audited • 1 file with Acknowledged findings • 2 files without findings

ID	Repo	File	SHA256 Checksum
• LFL	Seedifyfund/Locked- Yield-Farming	contracts/LockedFarming.sol	60a71cb909f31604a7b430fabdd6bba3ab46 e1dd4fc4d02c9a5900873ce8b262
• LFY	Seedifyfund/Locked- Yield-Farming	■ LockedFarming.sol	2bf96c4cba09be2c4b45c29b5829a7fa2f5fc 95eb0ffc4829c3a9ff44d1bfffa
• LFF	Seedifyfund/Locked- Yield-Farming	■ LockedFarming.sol	5b21ff0a0ee99da564314c7d135bddacdcc6 716ae298b0fe0292e7b2f548efc2



APPROACH & METHODS

SEEDIFY FINANCE LOCKED-YIELD-**FARMING**

This report has been prepared for Seedify finance to discover issues and vulnerabilities in the source code of the Seedify finance Locked-Yield-Farming project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Manual Review and Static Analysis techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- · Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Testing the smart contracts against both common and uncommon attack vectors;
- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases;
- · Provide more comments per each function for readability, especially contracts that are verified in public;
- Provide more transparency on privileged activities once the protocol is live.



FINDINGS SEEDIFY FINANCE LOCKED-YIELD-FARMING



This report has been prepared to discover issues and vulnerabilities for Seedify finance Locked-Yield-Farming. Through this audit, we have uncovered 9 issues ranging from different severity levels. Utilizing the techniques of Manual Review & Static Analysis to complement rigorous manual code reviews, we discovered the following findings:

ID	Title	Category	Severity	Status
GLOBAL-02	Centralization Risks In LockedFarming.Sol	Centralization	Major	Acknowledged
GLOBAL-03	Incompatibility With Deflationary Tokens	Logical Issue	Major	Acknowledged
GLOBAL-01	Ambiguous Use Of [isPaused]	Design Issue, Inconsistency	Minor	Resolved
GLOBAL-04	Inconsistency In initialStake Behavior And Comment Description	Inconsistency	Minor	Resolved
GLOBAL-05	Delay In Updating Expired Periods' Rewards Details	Design Issue	Minor	Resolved
LFL-01	Third-Party Dependency Usage	Design Issue	Minor	Acknowledged
LFL-02	Potentially Limits Recovery Of Excess Tokens	Logical Issue	Minor	Resolved
LFL-03	Incomplete Information Retrieval From userDeposits()	Design Issue	Informational	Resolved
LFL-04	Flawed stakedBalance Update Mechanism Inwithdraw() Function	Logical Issue	Informational	Resolved



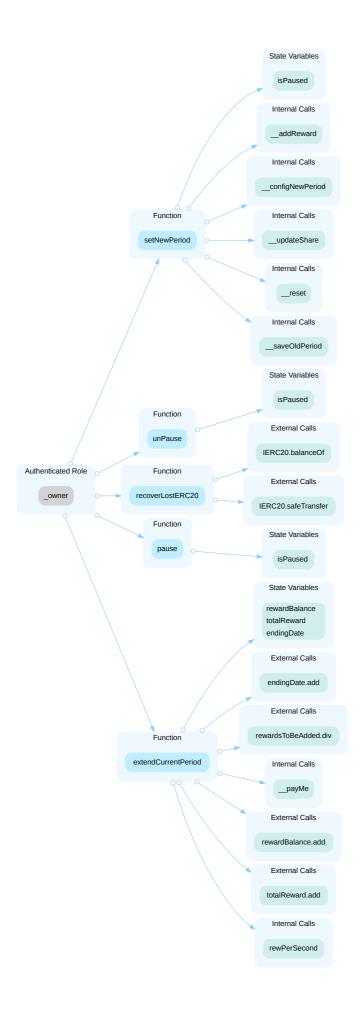
GLOBAL-02 CENTRALIZATION RISKS IN LOCKEDFARMING.SOL

Category	Severity	Location	Status
Centralization	Major		Acknowledged

Description

In the contract SMD_v5 the role _owner has authority over the functions shown in the diagram below. Any compromise to the _owner account may allow the hacker to take advantage of this authority and set rewards periods, extend the current period, pause/unpause functions, and withdraw excess tokens mistakenly sent to the contract. Notably, the hacker can prevent users from withdrawing staked tokens by updating lockDuration to a large value via setNewPeriod().







Recommendation

The risk describes the current project design and potentially makes iterations to improve in the security operation and level of decentralization, which in most cases cannot be resolved entirely at the present stage. We advise the client to carefully manage the privileged account's private key to avoid any potential risks of being hacked. In general, we strongly recommend centralized privileges or roles in the protocol be improved via a decentralized mechanism or smart-contract-based accounts with enhanced security practices, e.g., multisignature wallets. Indicatively, here are some feasible suggestions that would also mitigate the potential risk at a different level in terms of short-term, long-term and permanent:

Short Term:

Timelock and Multi sign (2/3, 3/5) combination *mitigate* by delaying the sensitive operation and avoiding a single point of key management failure.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
 AND
- Assignment of privileged roles to multi-signature wallets to prevent a single point of failure due to the private key compromised;

AND

 A medium/blog link for sharing the timelock contract and multi-signers addresses information with the public audience.

Long Term:

Timelock and DAO, the combination, mitigate by applying decentralization and transparency.

- Time-lock with reasonable latency, e.g., 48 hours, for awareness on privileged operations;
 AND
- Introduction of a DAO/governance/voting module to increase transparency and user involvement.
 AND
- A medium/blog link for sharing the timelock contract, multi-signers addresses, and DAO information with the public audience.

Permanent:

Renouncing the ownership or removing the function can be considered *fully resolved*.

- Renounce the ownership and never claim back the privileged roles.
 OR
- · Remove the risky functionality.

Alleviation



[Seedify Finance Team, 10/24/2023]: Issue acknowledged. I won't make any changes for the current version.



GLOBAL-03 INCOMPATIBILITY WITH DEFLATIONARY TOKENS

Category	Severity	Location	Status
Logical Issue	Major		Acknowledged

Description

When transferring standard ERC20 deflationary tokens, the input amount may not be equal to the received amount due to the charged transaction fee. For example, if a user stakes 100 deflationary tokens (with a 10% transaction fee), only 90 tokens actually arrive in the contract. However, the user can still withdraw 100 tokens from the contract, which causes the contract to lose 10 tokens in such a transaction.

If tokenAddress (the staking token) is deflationary, an attacker can repeatedly call deposit() and withdraw() / emergencyWithdraw() to empty the contract's funds and put other users' tokens at risk.

Similarly, if the rewardTokenAddress (the rewards token) is deflationary, the actual balance is lower than anticipated, leaving the potential for insufficient funds when disbursing rewards.

 $Reference: \underline{https://thoreum-finance.medium.com/what-exploit-happened-today-for-gocerberus-and-garuda-also-for-lokum-ybear-piggy-caramelswap-3943ee23a39f$

Recommendation

Is is recommended to either not use deflationary tokens or accurately account for the received amount post-fees, both for staking and rewards.

Alleviation

[Seedify Finance Team, 10/24/2023]: Issue acknowledged. I won't make any changes for the current version.



GLOBAL-01 AMBIGUOUS USE OF isPaused

Category	Severity	Location	Status
Design Issue, Inconsistency	Minor		Resolved

Description

In the SMD_v5 contract, certain functions require isPaused variable to be false, suggesting these functions may be paused under specific conditions. However, based on the current implementation, the contract will only ever be paused before the initial period is set. The sole function that can toggle isPaused to true is __reset(), which is called within setNewPeriod() invokes __setStartEnd(), which in turn sets isPaused back to false. As a result, functions that require isPaused to be false will always proceed without interruption.

Also, the pause behavior is inconsistent. For example:

- 1. The viewOldRewards() function is a view function that requires isPaused to be false. However, the other view functions lack this requirement.
- 2. The withdraw() does not directly require isPaused to be false, instead, it relies on viewoldRewards() which does. This implementation leads to ambiguity, causing one to question what the intended design it.
- 3. The <code>emergencyWithdraw()</code> function does not require <code>isPaused</code> to be false, it is recommended to check if this aligns with the intended design.

Recommendation

It is recommended to review the usage of the <code>isPaused</code> mechanism to ensure it aligns with its intended behavior.

Alleviation

[Seedify Finance Team, 10/24/2023]: The team heeded the advice and resolved the issue in commit 49e987095e999cee9602ea9421452162ef57a354.



GLOBAL-04 INCONSISTENCY IN initialStake BEHAVIOR AND **COMMENT DESCRIPTION**

Category	Severity	Location	Status
Inconsistency	Minor		Resolved

Description

The Deposits struct maintains data related to the deposits made by a user. Within this struct, the initialstake field is intended to record the timestamp when a user renews their stake for new periods, as described in the comment. However, there seems to be a discrepancy. The initialStake gets updated even when a user re-stakes within the current period, diverging from its intended behavior as per the comment. As a result, users could be prevented from withdrawing their stakes, as withdrawals are permitted only after <code>lockDuration.mul(SECONDS_PER_HOUR)</code> from the <code>initialStake</code>."

```
* @notice struct which should represent the deposit made by a wallet based on
all period if the wallet
                    called {renew}.
          * @param amount amount of LP {tokenAddress} deposited accross all period.
     * @param initialStake should be the timestamp at which the wallet renewed their
stake for new periods.
     * @param latestClaim latest timestamp at which the wallet claimed their
rewards.
     * @param userAccShare should be the amount of rewards per wei of deposited LP
token {tokenAddress}
                   accross all periods.
     * @param currentPeriod should be the lastest periodCounter at which the wallet
participated.
         struct Deposits {
             uint256 amount;
             uint256 initialStake;
             uint256 latestClaim;
             uint256 userAccShare;
             uint256 currentPeriod;
```

Recommendation



It is recommended to avoid updating the <u>initialStake</u> when a user restakes during the ongoing period. However, if a user's most recent stake was in a past period, their <u>initialStake</u> should be adjusted.

Alleviation

[Seedify Finance Team, 10/24/2023]: The team has modified the field name to latestStakeAt, which indicates in commit 49e987095e999cee9602ea9421452162ef57a354.

- * @param latestStakeAt timestamp at which the latest stake has been made by the wallet for current
- * period. Maturity date will be re-calculated from this timestamp which means each time the
- * wallet stakes a new amount it has to wait for `lockDuration` before being able to withdraw.



GLOBAL-05 DELAY IN UPDATING EXPIRED PERIODS' REWARDS **DETAILS**

Category	Severity	Location	Status
Design Issue	Minor		Resolved

Description

The endAccShare mapping in the contract captures the details of expired periods that determine the rewards users can claim from these old periods. The endAccShare is only updated via the reset () function, which is exclusively triggered by setNewPeriod(). This design means that stakers must wait for a new period to start before they can claim rewards from an expired period, introducing potential delays.

Recommendation

Consider adding a function to manually update endAccShare once a period ends. Alternatively, include automatic update logic into the claimoldRewards() function, allowing anyone to refresh it upon expiration.

Alleviation

[Seedify Finance Team, 10/24/2023]: The team heeded the advice and added the __save01dPeriod() function into claim01dRewards() in commit 49e987095e999cee9602ea9421452162ef57a354. This function is designed to enable users to update expired periods.

[CertiK]: However, the introduction of the __save01dPeriod() function led to an unintended issue: it mistakenly treated ongoing periods as expired, thereby incorrectly updating the endAccShare mapping. One variable affected was accShare, which determines stakers' rewards. Its value could be lower than it should be at the period's expiry, resulting in stakers claiming fewer rewards than anticipated after the period expires.

To address this, the team implemented a solution by adding a block.timestamp > endingDate check, as detailed in commit <u>626d304d632b06ab8b660f83ceeab33b916b50a7</u>.



LFL-01 THIRD-PARTY DEPENDENCY USAGE

Category	Severity	Location	Status
Design Issue	Minor	contracts/LockedFarming.sol (pre): 23, 25	Acknowledged

Description

The contract is serving as the underlying entity to interact with tokens tokenAddress and rewardTokenAddress. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised and this may lead to lost or stolen assets.

Recommendation

The auditors understood that the business logic requires interaction with third parties. It is recommended for the team to constantly monitor the statuses of third parties to mitigate the side effects when unexpected activities are observed.

Alleviation

[Seedify Finance Team, 10/24/2023]: Issue acknowledged. I won't make any changes for the current version.



LFL-02 POTENTIALLY LIMITS RECOVERY OF EXCESS TOKENS

Category	Severity	Location	Status
Logical Issue	Minor	contracts/LockedFarming.sol (pre): 686	Resolved

Description

The recoverLostERC20() function is designed to enable the owner to retrieve tokens mistakenly sent to the contract. A safeguard mechanism is embedded within the function to ensure that the owner cannot withdraw tokens (tokenAddress) that are actively staked by users. It achieves this by subtracting stakedTotal from the amount before the withdrawal.

However, there's a flaw in the logic: the stakedTotal represents the total amount of tokenAddress staked in the contract over its whole existence. Since it never decreases even when users make withdrawals, it could be larger the actual current staked balance. This flawed design means that the _owner might not be able to recover all the excess tokens beyond the current user stakes.

```
function recoverLostERC20(address token, address to) external onlyOwner {
   if (token == address(0)) revert("Token_Zero_Address");
   if (to == address(0)) revert("To_Zero_Address");

   if (to == address(0)) revert("To_Zero_Address");

   uint256 amount = IERC20(token).balanceOf(address(this));

   // only retrieve lost {rewardTokenAddress}

   if (token == rewardTokenAddress) amount -= rewardBalance;

   // only retrieve lost LP tokens
   if (token == tokenAddress) amount -= stakedTotal;

   IERC20(token).safeTransfer(to, amount);
}
```

Recommendation

Consider implementing a currentStakedBalance variable that increases upon deposits and decreases upon withdrawals.

Use this value in place of stakedTotal within the recoverLostERC20() function to safeguard active stakes while allowing full recovery of any excess tokens.

Alleviation

[Seedify Finance Team, 10/24/2023]: The team heeded the advice and resolved the issue in commit 49e987095e999cee9602ea9421452162ef57a354.



LFL-03

INCOMPLETE INFORMATION RETRIEVAL FROM

userDeposits()

Category	Severity	Location	Status
Design Issue	Informational	contracts/LockedFarming.sol (pre): 351	Resolved

Description

The userDeposits() function allows users to retrieve deposit details of a given address from . The Deposits struct contains a field name userAccShare, which represents the amount of rewards per wei of deposited LP token {tokenAddress} accross all periods. Notably, the userDeposits() function does not provide access to view the userAccShare, which appears to be an oversight.

```
84  struct Deposits {
85     uint256 amount;
86     uint256 initialStake;
87     uint256 latestClaim;
88     uint256 userAccShare;
89     uint256 currentPeriod;
90  }
```

Recommendation

It is recommended to add deposits[from].userAccShare to the return statement of the function.

Alleviation

[Seedify Finance Team, 10/24/2023]: The team heeded the advice and resolved the issue in commit 49e987095e999cee9602ea9421452162ef57a354.



LFL-04 FLAWED stakedBalance UPDATE MECHANISM IN __withdraw() FUNCTION

Category	Severity	Location	Status
Logical Issue	Informational	contracts/LockedFarming.sol (pre): 552	Resolved

Description

The __withdraw() function only decreases stakedBalance when isPause is false. The stakedBalance represents the amount of tokenAddress staked in the contract for the current period, and it directly impacts the reward calculations. Therefor, It should be updated whether the contract is paused or not. Failing to do so could lead to skewed reward distributions.

Specifically, the following scenario highlights the issue:

- 1. With <code>isPaused</code> being false, a user could invoke <code>emergencyWithdraw()</code> and reduce the actual staked balance without affecting the recorded <code>stakedBalance</code> in the contract.
- 2. When <code>isPaused</code> is set to true and <code>__updateShare()</code> function is triggered. When calculating the <code>accShare</code> (amount of rewards per wei), the formula uses the potentially inflated <code>stakedBalance</code> value, resulting in a smaller <code>accShare</code> than should be the case. This miscalculation means users might receive fewer rewards than they should.

It's worth mentioning that, in the current design, <code>isPaused</code> remains true after the setting of the first period, thus avoiding the described situation. Nevertheless, the logic appears faulty and could lead to unintended consequences if modified in the future.

Recommendation

It is recommended to revise the <u>__withdraw()</u> function, ensuring the <u>__stakedBalance</u> is updated consistently if other requirements have been satisfied.

Alleviation

[Seedify Finance Team, 10/24/2023]: The team heeded the advice and resolved the issue in commit 49e987095e999cee9602ea9421452162ef57a354.



APPENDIX SEEDIFY FINANCE LOCKED-YIELD-FARMING

I Finding Categories

Categories	Description
Inconsistency	Inconsistency findings refer to different parts of code that are not consistent or code that does not behave according to its specification.
Logical Issue	Logical Issue findings indicate general implementation issues related to the program logic.
Centralization	Centralization findings detail the design choices of designating privileged roles or other centralized controls over the code.
Design Issue	Design Issue findings indicate general issues at the design level beyond program logic that are not covered by other finding categories.

Checksum Calculation Method

The "Checksum" field in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each file hosted in the listed source repository under the specified commit.

The result is hexadecimal encoded and is the same as the output of the Linux "sha256sum" command against the target file.



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