

Audit Report March, 2024



For



Table of Content

Executive Summary	02
Number of Security Issues per Severity	03
Checked Vulnerabilities	04
Techniques and Methods	05
Types of Severity	06
Types of Issues	06
High Severity Issues	07
Medium Severity Issues	07
Low Severity Issues	07
Informational Issues	07
Automated Tests	80
Closing Summary	80
Disclaimer	

Executive Summary

Project Name HoneyLand

Overview This contract is designed for staking Honeyland tokens (HXD) for

specified periods. Users can stake HXD for periods such as 1, 3, 6, and 12 months. After the locking period, they have the option to

unstake their tokens.

Timeline 12th March 2024 - 22nd March 2024

Updated Code Received NA

Second Review NA

Method Manual Review, Functional Testing, Automated Testing, etc. All the

raised flags were manually reviewed and re-tested to identify any

false positives.

Audit Scope The scope of this audit was to analyze the HoneyLand Contract for

quality, security, and correctness.

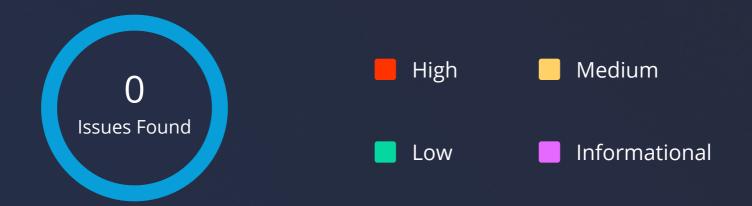
Source Code https://github.com/honeylanddev/honeyland-hxd-stake-onchain

Branch Main

Commit Hash c70869a33d0ca7282d55a5f73b4b8066ec95d854

Fixed In NA

Number of Security Issues per Severity



	High	Medium	Low	Informational
Open Issues	0	0	0	0
Acknowledged Issues	0	0	0	0
Partially Resolved Issues	0	0	0	0
Resolved Issues	0	0	0	0

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Checked Vulnerabilities





Sysvar Address Checking

Owner Checks

Type Cosplay

Initialization

✓ Arbitrary CPI

✓ Duplicate Mutable Accounts

Insufficient SPL Token Account Verification

PDA Sharing

Incorrect Closing Accounts

Missing Rent Exemption Checks

Arithmetic Overflows/Underflows

Numerical Precision Errors

Solana Account Confusions

Casting Truncation

Bump Seed Canonicalization

Signed Invocation of Unverified Programs

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Techniques and Methods

Throughout the audit of smart contracts, care was taken to ensure

- The overall quality of code.
- Use of best practices.
- Code documentation and comments match logic and expected behavior.
- Efficient use of gas.
- Code is safe from re-entrancy and other vulnerabilities.

The following techniques, methods, and tools were used to review all the smart contracts.

Structural Analysis

In this step, we have analyzed the design patterns and structure of smart contracts. A thorough check was done to ensure the smart contract is structured in a way that will not result in future problems.

Static Analysis

A static Analysis of Smart Contracts was done to identify contract vulnerabilities. In this step, a series of automated tools are used to test the security of smart contracts.

Code Review / Manual Analysis

Manual Analysis or review of code was done to identify new vulnerabilities or verify the vulnerabilities found during the static analysis. Contracts were completely manually analyzed, their logic was checked and compared with the one described in the whitepaper. Besides, the results of the automated analysis were manually verified.

Gas Consumption

In this step, we have checked the behavior of smart contracts in production. Checks were done to know how much gas gets consumed and the possibilities of optimization of code to reduce gas consumption.

Tools and Platforms used for Audit

Hardhat, Foundry.



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Types of Severity

Every issue in this report has been assigned to a severity level. There are four levels of severity, and each of them has been explained below.

High Severity Issues

A high-severity issue or vulnerability means that your smart contract can be exploited. Issues on this level are critical to the smart contract's performance or functionality, and we recommend these issues be fixed before moving to a live environment.

Medium Severity Issues

The issues marked as medium severity usually arise because of errors and deficiencies in the smart contract code. Issues on this level could potentially bring problems, and they should still be fixed.

Low Severity Issues

Low-level severity issues can cause minor impact and are just warnings that can remain unfixed for now. It would be better to fix these issues at some point in the future.

Informational

These are four severity issues that indicate an improvement request, a general question, a cosmetic or documentation error, or a request for information. There is low-to-no impact.

Types of Issues

Open

Security vulnerabilities identified that must be resolved and are currently unresolved.

Resolved

These are the issues identified in the initial audit and have been successfully fixed.

Acknowledged

Vulnerabilities which have been acknowledged but are yet to be resolved.

Partially Resolved

Considerable efforts have been invested to reduce the risk/impact of the security issue, but are not completely resolved.

High Severity Issues

No issues were found.

Medium Severity Issues

No issues were found.

Low Severity Issues

No issues were found.

Informational Issues

No issues were found.

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Automated Tests

No major issues were found. Some false positive errors were reported by the tools. All the other issues have been categorized above according to their level of severity.

Closing Summary

In this report, we have considered the security of the HoneyLand codebase. We performed our audit according to the procedure described above.

No Issues were Found During the Audit, and code quality is good.

Disclaimer

QuillAudits Smart contract security audit provides services to help identify and mitigate potential security risks in HoneyLand smart contracts. However, it is important to understand that no security audit can guarantee complete protection against all possible security threats. QuillAudits audit reports are based on the information provided to us at the time of the audit, and we cannot guarantee the accuracy or completeness of this information. Additionally, the security landscape is constantly evolving, and new security threats may emerge after the audit has been completed.

Therefore, it is recommended that multiple audits and bug bounty programs be conducted to ensure the ongoing security of HoneyLand smart contracts. One audit is not enough to guarantee complete protection against all possible security threats. It is important to implement proper risk management strategies and stay vigilant in monitoring your smart contracts for potential security risks.

QuillAudits cannot be held liable for any security breaches or losses that may occur subsequent to and despite using our audit services. It is the responsibility of the HoneyLand to implement the recommendations provided in our audit reports and to take appropriate steps to mitigate potential security risks.

About QuillAudits

QuillAudits is a secure smart contracts audit platform designed by QuillHash Technologies. We are a team of dedicated blockchain security experts and smart contract auditors determined to ensure that Smart Contract-based Web3 projects can avail the latest and best security solutions to operate in a trustworthy and risk-free ecosystem.



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