

Smart Contract Security Assessment

Final Report

For Camelot (Nitro & Presale)

14 November 2022





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1 Overview

This report has been prepared for Camelot on the Arbitrum network. Paladin provides a user-centred examination of the smart contracts to look for vulnerabilities, logic errors or other issues from both an internal and external perspective.

1.1 Summary

Project Name	Camelot
URL	https://app.camelot.exchange
Network	Arbitrum
Language	Solidity

1.2 Contracts Assessed

Name	Contract	Live Code Match
NitroPool	Deployed by NitroPoolFactory	✓ MATCH
NitroPoolFactory	0xe0a6b372Ac6AF4B37c7F3a989Fe5d5b194c24569	✓ MATCH
Presale	0x66eC1EE6c3AD04d7629Ce4a6d5d19ba99c365d29	✓ MATCH

1.3 Findings Summary

Severity	Found	Resolved	Partially Resolved	Acknowledged (no change made)
High	1	1	-	-
Medium	2	2	-	-
Low	8	8	-	-
Informational	8	6	-	2
Total	19	17	-	2

Classification of Issues

Severity	Description
High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency.
Medium	Bugs or issues that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
Informational	Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

1.3.1 NitroPool

ID	Severity	Summary	Status
01	HIGH	_harvest is flawed in several ways if a user withdraws before harvesting is allowed	✓ RESOLVED
02	MEDIUM	onNFTHarvest might start reverting as it blindly attempts to forward the full amounts	✓ RESOLVED
03	MEDIUM	A malicious rewardsToken2 can be added after the pool is published, blocking rewards and forcing emergency withdrawals	✓ RESOLVED
04	LOW	Lack of handling of ownership renunciation	✓ RESOLVED
05	Low	emergencyWithdraw can still revert in the edge case that the rewardDebt calculation overflows	✓ RESOLVED
06	LOW	isValidNFTPool will break if it is used on any pool other than msg.sender	✓ RESOLVED
07	LOW	addRewards remains callable at the endTime while these rewards may not be claimable	✓ RESOLVED
08	INFO	Lack of reentrancy guards on various functions	✓ RESOLVED
09	INFO	Contract does not support deposit fee tokens	✓ RESOLVED
10	INFO	Typographical errors and gas optimizations	✓ RESOLVED

1.3.2 NitroPoolFactory

ID	Severity	Summary	Status
11	Low	Contract is not well suited for a create2 deployment pattern	✓ RESOLVED
12	INFO	Typographical errors	✓ RESOLVED
13	INFO	Gas optimization	✓ RESOLVED

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1.3.3 Presale

ID	Severity	Summary	Status
14	Low	Any xGrail reapproval attempt will fail and permanently prevent claiming on the contract	✓ RESOLVED
15	LOW	Users will be unable to claim grail if their xGrail amount is zero	✓ RESOLVED
16	LOW	Contract might not be compatible with all USDC deployments	✓ RESOLVED
17	INFO	Lack of validation	✓ RESOLVED
18	INFO	Gas optimizations	ACKNOWLEDGED
19	INFO	Typographical errors	ACKNOWLEDGED

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2 Findings

2.1 NitroPool

The NitroPool contracts are staking pools which emit extra rewards on top of the rewards from locking an LP position into an NFTPool. The idea of the NitroPool is that if your locked LP position meets certain requirements (such as lock duration), you can then stake the locked LP position into the NitroPool for additional rewards.

The NitroPool defines up to two additional reward tokens.

Deposits are made into the NitroPool simply by transferring your NFTPool NFT to it. This transfer will solely succeed if the necessary requirements are met for the NFT:

- It must be from the correct NFT pool
- The lock duration must exceed the configured minimum
- The lock expiry must be after the configured minimum
- The lock amount must exceed the minimum configured amount

The pool will continuously emit deposited tokens until the configured endTime of the pool to all stakers proportional to their staked amounts. Withdrawals can however be made at any time. The contract also contains a safer emergency withdrawal function which continues working even if various reward calculations for any reason would start reverting.

When a deposit is made, the users receive approval for the token. This means that they can still use their approval to freely operate on the token: harvest the underlying pool, add to the position, etc. However, even though the approval would typically allow them to transfer out the token, which would be undesirable, this is prevented since NFTPool implementations revert on such transfers as transfers from a contract can only be made if the operator is said contract.

The pool owner can at any point make the pool whitelisted, which means that any subsequent depositors can only deposit into the pool if they are whitelisted by the owner.

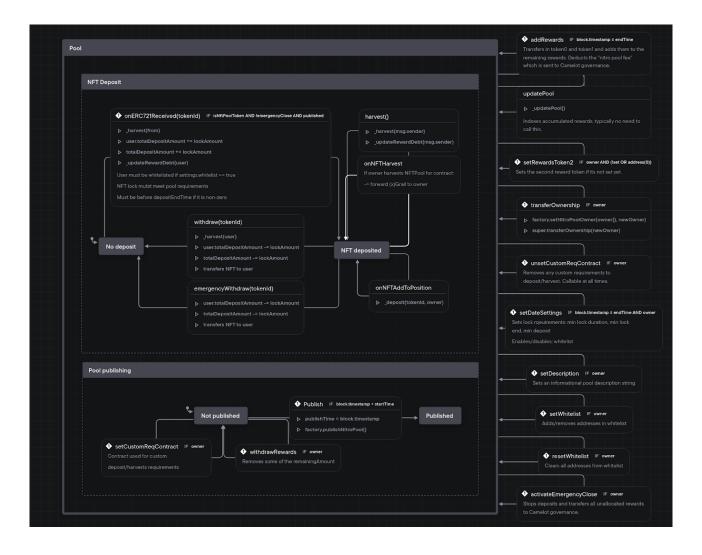
For deposits to be enabled, the pool must have been published. This is done by the pool owner when they call the publish function which can only be called once.

Various functions become more strict after a pool has been published:

- The custom requirements contract which adds additional safeguards on harvests and deposits can no longer be changed unless it's fully removed
- withdrawRewards can no longer be called, solely activateEmergencyClose
- Deposit requirements can only be adjusted to make the requirements more strict
- Most date settings can no longer be adjusted, only the endTime remains extendable

Finally, the owner can define a date settings which limit the user: They can define the last time where deposits are still allowed and they can define the earliest time when harvests become available.

The full NitroPool process and how its encoded within the smart contract can be seen in the following diagram:



2.1.1 Privileged Functions

- withdrawRewards
- setRewardsToken2
- setCustomReqContract
- setRequirements
- setDateSettings
- setDescription
- setWhitelist
- resetWhitelist
- publish
- activateEmergencyClose
- transferOwnership
- renounceOwnership

2.1.2 Issues & Recommendations

Issue #01	_harvest is flawed in several ways if a user withdraws before harvesting is allowed
Severity	HIGH SEVERITY
Description	_harvest is flawed in multiple ways: First of all, crucial logic to pay out cached harvests is not triggered if the current pending is zero. This means that if the user has cached a harvest and withdrawn their position afterwards, they will not be able to harvest their previously cached amount.
	Secondly, a large error appears to occur on the following line:
	<pre>Line 729 if (_currentBlockTimestamp() < settings.harvestStartTime && canHarvest) {</pre>
	This code is supposed to execute while no harvests are permitted, eg. we are before the harvest start time. However, the second parameter triggers when the customReqContract permits harvests. It should therefore say !canHarvest.
	Lastly, the canHarvest check is missing in the second reward token.
Recommendation	Consider refactoring the _harvest function to always payout pending rewards and to properly account for canHarvest.
	Consider adding the canHarvest check to the second reward token.
Resolution	✓ RESOLVED The recommended refactoring has been implemented.

Issue #02	onNFTHarvest might start reverting as it blindly attempts to forward the full amounts
Severity	MEDIUM SEVERITY
Description	The onNFTHarvest function blindly forwards the input amounts. However, these amounts are not always granted to users. This is because once the balance of the NFTPool runs too low, only the remainder will be sent as rewards.
Recommendation	Consider updating the NFTPool code to forward the actual amounts sent to onNFTHarvest. This makes more sense in our opinion and arguably should have been a recommendation if the NFTPool audit had considered this usage.
Resolution	This was fixed as recommended within the NFTPool, which is out of scope. This fix will be more formally attested within the live match of that audit.

Issue #03	A malicious rewardsToken2 can be added after the pool is published, blocking rewards and forcing emergency withdrawals
Severity	MEDIUM SEVERITY
Description	The NitroPool owner may add a second reward token at any time, as long as one was not set previously. This presents a griefing risk vector.
	If the second reward token is malicious and reverts on transfer, users will be unable to claim any rewards for either reward token. At this point, the only way for a user to retrieve their NFT is via emergency withdraw, forgoing earned rewards.
Recommendation	Consider requiring the second reward token to be set prior to publishing. This will allow users and the protocol frontend to do appropriate due diligence on the pool's tokens.
Resolution	⋘ RESOLVED

Issue #04	Lack of handling of ownership renunciation
Severity	LOW SEVERITY
Location	<pre>Line 391 function transferOwnership(address newOwner) public override onlyOwner {</pre>
Description	The codebase overrides the transferOwnership function with custom logic which should always execute on ownership handover. However, another method can be used for ownership handover as well: renounceOwnership. The latter is not overridden and the custom logic is hence not executed here.
Recommendation	Consider overriding the internal _transfer0wnership instead.
Resolution	renounceOwnership is now handled as well, the external methods are however overridden which is slightly less efficient.

Issue #05	emergencyWithdraw can still revert in the edge case that the rewardDebt calculation overflows
Severity	LOW SEVERITY
Description	The emergencyWithdraw function adjusts the rewardDebt by adjusting it to the current debt excluding the withdrawn tokens. However, if a bad token that could be infinitely minted was added as a reward token, it is possible to increase the rewardDebt calculation so much that the multiplication portion of it overflows and reverts. This scenario would hence still block all withdrawals.
Recommendation	Consider using tryMul instead with the rewardDebt calculation. This way overflow can be handled explicitly within emergencyWithdraw to allow the withdrawal to still succeed.
Resolution	A tryMul has been implemented. However, we need to point out that the failure should still revert in deposit and withdraw as currently it is ignored there. This should only be a risk for tokens with a very large supply, in which case an exploiter could potentially claim excessive rewards. Small supply tokens, eg. almost all normal

tokens in existence, should still not allow for exploitation.

Issue #06	isValidNFTPool will break if it is used on any pool other than msg.sender
Severity	LOW SEVERITY
Location	<pre>Line 244-247 modifier isValidNFTPool(address sender) { require(msg.sender == address(nftPool), "invalid NFTPool"); _; }</pre>
Description	The isValidNFTPool function takes in a sender function which is unused. If this function is ever used with anything but the msg.sender, this would cause severe malfunction. Right now the sender is always msg.sender, so no user-facing concerns arise.
Recommendation	Consider using the sender parameter: require(sender == address(nftPool), "invalid NFTPool");
Resolution	₩ RESOLVED

Issue #07	addRewards remains callable at the endTime while these rewards may not be claimable
Severity	LOW SEVERITY
Location	<pre>Line 402 require(_currentBlockTimestamp() <= settings.endTime, "pool has ended");</pre>
Description	If a harvest occurs at the last second of the emissions, addRewards remains callable but these rewards will never be harvested.
Recommendation	<pre>Consider making the check exclusive: require(_currentBlockTimestamp() < settings.endTime, "pool has ended");</pre>
Resolution	₩ RESOLVED

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Issue #08	Lack of reentrancy guards on various functions
Severity	INFORMATIONAL
Description	The codebase makes a strong attempt at safeguarding itself against reentrancy. Even though no reentrancy exploits appear to be possible, we will include an issue in good faith to allow the client to harden their code further.
	The following functions lack reentrancy guards:
	- updatePool
	- activateEmergencyClose
	<pre>- setRewardsToken2 (optionally)</pre>
	- setDateSettings (optionally)
Recommendation	Consider adding reentrancy guards to the above functions. activateEmergencyClose should also be adhere to the checks- effects-interaction pattern.
Resolution	₹ RESOLVED

Issue #09	Contract does not support deposit fee tokens
Severity	INFORMATIONAL
Description	The contract does not work with deposit fee reward tokens. This is because the addRewards function blindly assumes that the transferred tokens have been received.
Recommendation	Consider whether such tokens ever need to be supported. If so, consider adding a before-after pattern to addRewards. Alternatively, this issue will be resolved on the note that such tokens are not permitted within this contract.
Resolution	▼ RESOLVED The addRewards function now supports tokens with a fee on transfer.

Issue #10 Typographical errors and gas optimizations

Severity



Description

We have consolidated the typographical errors and the sections which can be further optimized for gas usage below.

Line 95

```
IGrailTokenV2 grailToken_, IXGrailToken xGrailToken_,
address owner_, INFTPool nftPool_, address rewardsToken1_,
address rewardsToken2_, Settings calldata settings_
```

The tokens can be provided as IERC20 to avoid casting. Line 104 would then furthermore cast these addresses correctly.

```
Line 112
if (rewardsToken2_ != address(0)) {
```

This can in our opinion remain implicit which would save a few lines (by always setting the token).

```
Line 120
```

```
if (settings_.harvestStartTime == 0)
settings.harvestStartTime = settings.startTime;
```

settings_ can be used on the right hand side to save some gas.

Line 228

```
accRewardsToken1PerShare_ =
rewardsToken1.accRewardsPerShare.add(rewardsAmount.mul(1e18)
.div(totalDepositAmount));
```

Consider incrementing the memory variable instead of re-fetching the rewardsToken1.accRewardsPerShare from storage again. The same can be set for line 233.

```
Line 395
emit TransferOwnership(newOwner);
```

This event is already emitted at a lower level by Ownable.

<u>Line 417</u>

else delete customReqContract;

This can be simplified: The if statement appears to be completely redundant as this deletion zeroes it out as well.

Line 495

if(contractAddress != address(0)){

The UpdatePool event emits a timestamp which seems redundant.

Recommendation

Consider fixing the typographical errors.

Resolution



2.2 NitroPoolFactory

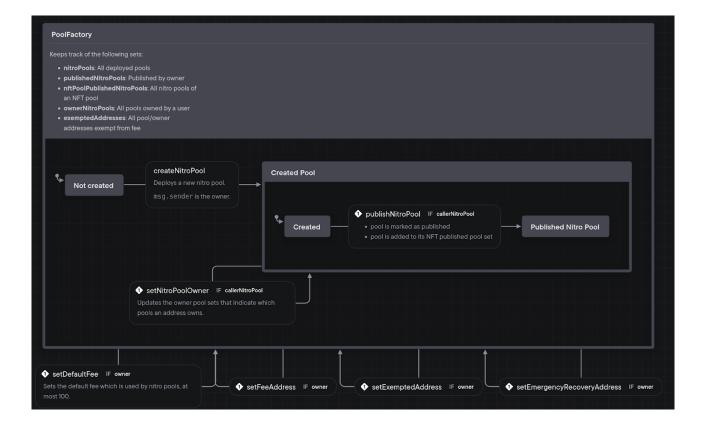
NitroPoolFactory is responsible for deploying new NitroPool instances. The contract defines a defaultFee which is used as the default fee share percentage for NitroPool rewards. This fee can be zeroed out if the factory owner marks the Nitro pool or its owner as exempt.

The factory defines various other utilities which are used by the pools themselves. It contains various enumerable sets which can be enumerated by the frontend. The pool owner can finally set various global variables:

- defaultFee: Documented above
- feeAddress: The global Camelot governance address which receives the fees
- exemptedAddresses: The pool and owner addresses without a governance fee
- emergencyRecoveryAddress: The global Camelot governance address which receives all reward tokens when activateEmergencyClose() is called by a pool owner

It should be noted that anyone can create a NitroPool and the relevant parameters to create such a pool are not validated. This means that malicious pools may exist with malicious tokens (NFT/ERC20). The frontend should only display trusted pools.

The full NitroPoolFactory process and how its encoded within the smart contract can be seen in the following diagram:



2.2.1 Privileged Functions

- publishNitroPool [nitroPool, callable once]
- setNitroPoolOwner [nitroPool]
- setDefaultFee [owner]
- setFeeAddress [owner]
- setExemptedAddress [owner]
- setEmergencyRecoveryAddress [owner]
- transferOwnership
- renounceOwnership

2.2.2 Issues & Recommendations

Issue #11	Contract is not well suited for a create2 deployment pattern
Severity	LOW SEVERITY
Location	<pre>Line 173 bytes32 salt = keccak256(abi.encodePacked(nftPoolAddress, rewardsToken1, rewardsToken2, _currentBlockTimestamp()));</pre>
Description	The NitroPool is deployed using a unique salt which is the input to generate the relevant deployment address. However, as this salt is based on an ever-changing deployment timestamp, there is very little value to using a salt.
	Typically, a deterministic deployment salt is used so that other contracts can figure out the address of a pool without explicitly having to ask the factory. However, since the timestamp is always changing, this is simply impossible.
Recommendation	Consider moving to a standard deployment pattern, and if so, consider moving to a constructor for the NitroPool.
Resolution	

Issue #12	Typographical errors
Severity	INFORMATIONAL
Description	We have consolidated the typographical errors into a single issue to keep the report brief and readable.
	<pre>Line 6 import "@openzeppelin/contracts/token/ERC20/IERC20.sol";</pre>
	This import appears to be unused.
	Line 143
	* @dev Returns an exemptedAddress from its "index"
	This comment is wrongly copied as the relevant function returns whether the address is exempted or not.
Recommendation	Consider fixing the typographical errors.
Resolution	₹ RESOLVED

Issue #13	Gas optimization
Severity	INFORMATIONAL
Location	<pre>Line 210 require(_ownerNitroPools[previousOwner].contains(msg.sender) , "invalid owner");</pre>
Description	It is sufficient to require the remove call as it returns a success boolean as well.
Recommendation	Consider implementing the gas optimization above.
Resolution	₹ RESOLVED

2.3 Presale

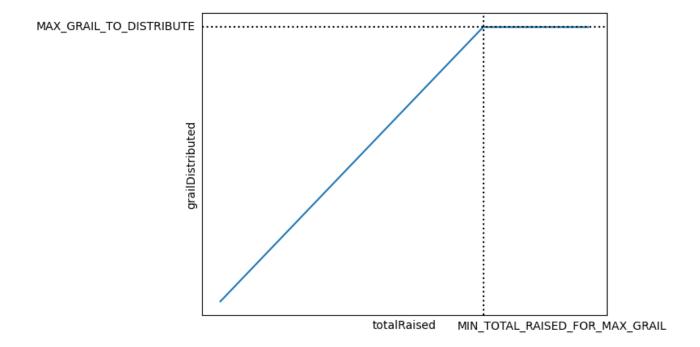
The Presale contract is designed to sell a number of Grail tokens for a number of SALE_TOKENs (presumably a stablecoin) as a public raise.

While the sale is active, users can call the buy function with the amount of SALE_TOKEN (expected to be USDC) they wish to spend. If the user provides a referral, 3% of those tokens will go to the referral while the remainder is always immediately sent to the Camelot treasury. In exchange for these tokens, the user receives presale allocation which they will be allowed to exchange for both Grail and xGrail tokens after the sale has ended. Exactly 35% of the tokens eligible to a user will be given as xGrail.

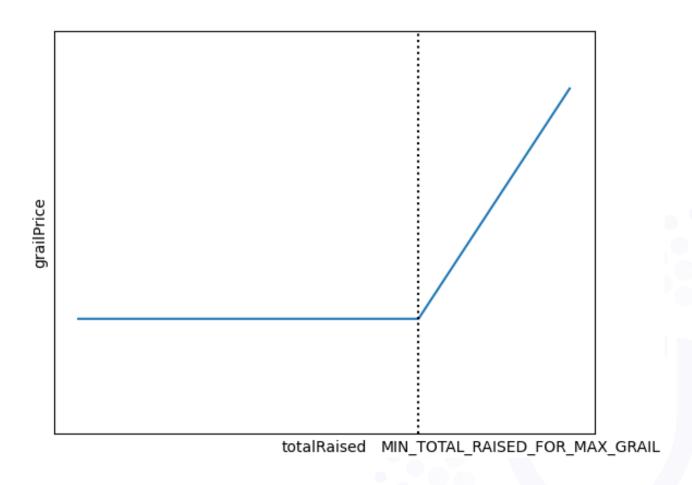
The presale is configured to distribute exactly 15,000 tokens in total, for a desired total of 300,000 USDC. Each token is therefore sold at a price of \$20. If more than 300,000 tokens have been sold, the price will be higher.

Finally, the team is free to assign a discount to specific users.

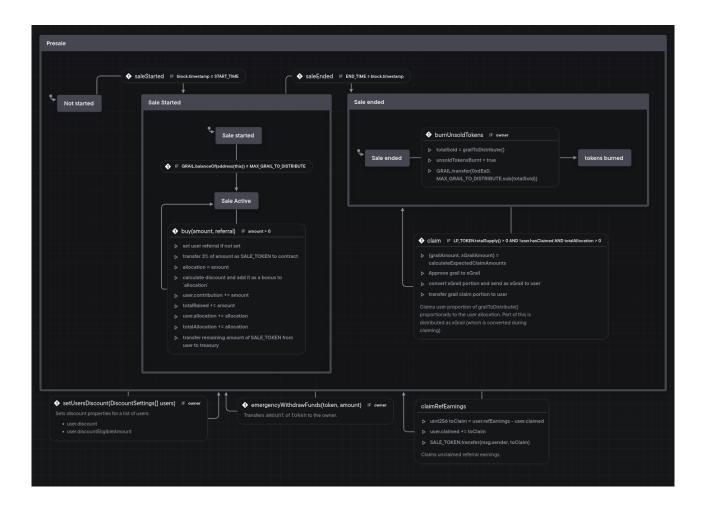
The number of Grail which will be distributed to users is capped via the MAX_GRAIL_TO_DISTRIBUTE variable, which is reached once the MIN_TOTAL_RAISED_FOR_MAX_GRAIL has been reached.



This means that as long as there is small to moderate interest in the presale, users will be paying a constant price. However, once more than the minimum for maximum Grail has been reached, all users will pay an increasingly expensive price as no further Grail will be emitted for new purchases:



The full presale process and how it is encoded within the smart contract can be seen in the following diagram:



2.2.1 Privileged Functions

- setUsersDiscount
- emergencyWithdrawFunds
- burnUnsoldTokens
- transferOwnership
- renounceOwnership

2.2.2 Issues & Recommendations

Issue #14	Any xGrail reapproval attempt will fail and permanently prevent claiming on the contract
Severity	LOW SEVERITY
Location	<pre>Line 241-243 if (GRAIL.allowance(address(this), address(XGRAIL)) < xGrailAmount) { GRAIL.safeApprove(address(XGRAIL), uint256(-1)); }</pre>
Description	The safeApprove attempt will only work the first time it is called. Subsequent calls will almost always fail as safeApprove by OpenZeppelin is a notoriously annoying function: require((value == 0) (token.allowance(address(this), spender) == 0), "SafeERC20: approve from non-zero to non-zero allowance");
Recommendation	Consider using a normal approval instead, or the recommended OZ pattern: GRAIL.safeApprove(address(XGRAIL), 0); GRAIL.safeApprove(address(XGRAIL), type(uint256).max); Note that we recommend using type(uint256).max as it is more readable than uint256(-1).
Resolution	₩ RESOLVED

Issue #15	Users will be unable to claim grail if their xGrail amount is zero
Severity	LOW SEVERITY
Location	<pre>Line 246 XGRAIL.convertTo(xGrailAmount, msg.sender);</pre>
Description	The convertTo function reverts on zero amount. If the user purchases an exceptionally small amount of tokens, the convertTo here would revert as well and users would not be able to claim the remaining Grail tokens.
Recommendation	Consider either accepting this as users will never purchase such a small amount, or consider adding a non-zero check in line with correctness.
Resolution	₹ RESOLVED

Issue #16	Contract might not be compatible with all USDC deployments
Severity	LOW SEVERITY
Location	<pre>Line 45 uint256 public constant MIN_TOTAL_RAISED_FOR_MAX_GRAIL = 300000000000;</pre>
Description	The contract presently assumes a USDC token with 6 decimals. If the contract is ever used on a chain with a different number of decimals for the stablecoin, the contract will misbehave and tokens might all get sold for a fraction of the expected sale amount.
Recommendation	Consider either carefully documenting this or scaling the value by the decimals of the USDC to be safe.
Resolution	The contract now clearly documents it only works with a 6 decimal USDC. The client and developers who fork this contract should of course remain careful.

Issue #17	Lack of validation
Severity	INFORMATIONAL
Description	The contract contains functions with parameters which are not properly validated. Having unvalidated parameters could allow the governance or users to provide variable values which are unexpected and incorrect. This could cause side-effects or worse exploits in other parts of the codebase.
	Consider validating setUsersDiscount: The discount should be validated to be smaller or equal to 100 if this is how it is supposed to be used.
Recommendation	Consider validating the function parameter mentioned above.
Resolution	The discount is now capped to 35%.

Issue #18 Gas optimizations INFORMATIONAL Severity Description We have consolidated the sections which can be further optimized for gas usage below. Line 24 address ref; By moving this address to right above hasClaimed, it will be packed together with the hasClaimed boolean and save a storage slot, which can reduce gas costs significantly. Optionally, discount could also be packed in this slot as it would still fit in a uint8. This discount can also be packed within the DiscountSettings struct. Line 133-138 function grailToDistribute() public view returns (uint256){ if (MIN_TOTAL_RAISED_FOR_MAX_GRAIL > totalRaised) {

if (MIN_TOTAL_RAISED_FOR_MAX_GRAIL > totalRaised) {
 return

MAX_GRAIL_TO_DISTRIBUTE.mul(totalRaised).div(MIN_TOTAL_RAISE
D_FOR_MAX_GRAIL);
 }
 return MAX_GRAIL_TO_DISTRIBUTE;
}

totalRaised is read from storage twice, less of a big deal.

Recommendation

Consider implementing the gas optimizations mentioned above.

Resolution

ACKNOWLEDGED

Issue #19	Typographical errors
Severity	INFORMATIONAL
Description	We have consolidated the typographical errors into a single issue to keep the report brief and readable.
	Line 140-142 /** * @dev Get user share times 1e5 */
	<u>Line 194</u> // Readjust user new allocation
	The lines above should state <i>user's</i> .
	claimRefEarnings and setUsersDiscount can be marked as external. Note that we also recommend marking claimRefEarnings as non-reentrant as well if there is a reentrancy threat on buy.
	<pre>Line 242 GRAIL.safeApprove(address(XGRAIL), uint256(-1));</pre>
	A cleaner way to get the max uint256 is using type(uint256).max.
	Line 283 function emergencyWithdrawFunds(address token, uint256 amount) external onlyOwner
	token can be provided as an IERC20.
	burnUnsoldTokens finally should emit an event (it should be noted that it might also make sense to use safeTransfer within this function).
Recommendation	Consider fixing the typographical errors.
Resolution	■ ACKNOWLEDGED

