



# ECO PAW Token

## BEP20 Eco Paw Token Audit

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## • BEP20 ECO PAW TOKEN AUDIT • ECO PAW Token

The Eco Paw team asked us to review and audit their [BEP20 Eco Paw Token contract](#). We looked at the code and now publish our results.

The audited code is located in the [ecopaw-token](#) repository. The version used for this report is commit `25db651101cbe4365654cd194fafde30ddaf39cc`.

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## • AUDIT DETAILS: • ECO PAW Token

The last release of the OpenZeppelin framework includes a parameterized [ERC20](#) token contract called [ERC20](#). Consider inheriting [Eco Paw Token](#) from it to reuse that functionality.

Consider reusing OpenZeppelin's [ERC20Permit](#), which allows a token holder to sign an approval for a spender to spend tokens on their behalf.

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## Notes & Additional Information

- The last release of the OpenZeppelin framework includes a parameterized [ERC20](#) token contract called [ERC20](#). Consider inheriting [Eco Paw Token](#) from it to reuse that functionality.
- Consider reusing OpenZeppelin's [ERC20Permit](#), which allows a token holder to sign an approval for a spender to spend tokens on their behalf.

## • AUTOMATED TEST: • ECO PAW Token

We have used multiple automated testing frameworks. This makes code more secure common attacks. The results are below.

### Slither:

Slither is a Solidity static analysis framework which runs a suite of vulnerability detectors, prints visual information about contract details, and provides an API to write custom analyses quickly. Slither enables developers to find vulnerabilities, enhance their code comprehension, and promptly prototype custom analyses. Each solidity file and project together has been analyzed. We got a report with a few warnings and errors.

We did the analysis of the project altogether. Below are the results

```
* EcoPawToken git:(dev) ✘ slither
  'forge clean' running (wd: /home/sean/AlgoAlliance/center/EcoPawToken)
  'forge build' running
  Compiling 2 files with 0.8.20
  Solc 0.8.20 finished in 0.77.65ms
  Compiling 2 files with 0.8.20
  Warning (3420): Source file does not specify required compiler version! Consider adding "pragma solidity >=0.8.20;" to your source file(s).
  Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20.name() (src/EcoPawToken.sol#0x61-63) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._name() (src/EcoPawToken.sol#0x61-63) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._symbol() (src/EcoPawToken.sol#0x64-66) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._decimals() (src/EcoPawToken.sol#0x67-69) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._totalSupply() (src/EcoPawToken.sol#0x6a-6c) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._balances(address) (src/EcoPawToken.sol#0x6d-70) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._allowances(address,address) (src/EcoPawToken.sol#0x71-74) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._mint(uint256,uint256) (src/EcoPawToken.sol#0x75-78) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._burn(uint256) (src/EcoPawToken.sol#0x79-82) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._approve(address,uint256) (src/EcoPawToken.sol#0x83-86) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._transfer(address,address,uint256) (src/EcoPawToken.sol#0x87-90) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._transferFrom(address,address,uint256) (src/EcoPawToken.sol#0x91-94) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._revertIfNotOwner() (src/EcoPawToken.sol#0x95-98) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isOwner() (src/EcoPawToken.sol#0x99-102) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x103-106) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x107-110) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x111-114) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x115-118) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x119-122) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x123-126) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x127-130) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x131-134) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

```
INFO:Detectors:
  ERC20._isApprovedForTransfer(address,address) (src/EcoPawToken.sol#0x135-138) [function]
    Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
```

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## • AUDIT GOALS: • ECO PAW Token

The focus of this audit was to verify whether the smart contract is secure, resilient, and working properly according to the specs. The audit activity can be grouped in three categories. Security: Identifying the security-related issue within each contract and system of contracts. Sound architecture: Evaluating the architect of a system through the lens of established smart contract best practice and general software practice. Code correctness and quality: A full review of contract source code. The primary area of focus includes

- Correctness.
- Section of code with high complexity.
- Readability.
- Quantity and quality of test coverage.

## Here is our assessment and recommendations, in order of importance.

- Critical severity: No critical severity issues were found.
- High severity: No high severity issues were found.
- Medium severity: No medium severity issues were found.
- Low severity No low severity issues were found.

## • NO. OF ISSUE PER SEVERITY • ECO PAW Token

Open	Severity	0	0	0
	High	0	0	0

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## • NOTE • ECO PAW Token

In our recent security review, we wish to inform stakeholders that no critical or high-severity issues were detected within the BEP20 EcoPawToken contract. Nonetheless, we have proposed some amendments to adhere to best practices and diminish the potential for future vulnerabilities.

It is crucial to underscore that our examination is strictly confined to the aforementioned BEP20 contract and mirrors the current understanding of acknowledged security protocols as of this communication's publication date. We have not conducted any review of the broader Eco Paw project.

Moreover, we explicitly want to clarify that Algo Alliance has no direct or indirect involvement with the Eco Paw project. Our engagement was solely limited to conducting a security audit of the specific token contract. This information should not be construed as investment advice. Any decision to invest in digital assets should always be preceded by thorough deliberation and a comprehensive grasp of the associated risks.

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