



Zhejiang Qiandao Lake and Xin'an River Basin Water Resources and Ecological Environment Protection Project (P159870)

EAST ASIA AND PACIFIC | China | Environment, Natural Resources & the Blue Economy Global Practice | IBRD/IDA | Investment Project Financing | FY 2018 | Seq No: 9 | ARCHIVED on 29-Jun-2022 | ISR51736 |

Implementing Agencies: People's Republic of China, Zhejiang Provincial Construction Department

Key Dates**Key Project Dates**

Bank Approval Date: 06-Jun-2018

Effectiveness Date: 26-Nov-2018

Planned Mid Term Review Date: 09-Nov-2021

Actual Mid-Term Review Date: 12-Sep-2021

Original Closing Date: 30-Jun-2024

Revised Closing Date: 30-Jun-2024

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

To strengthen integrated pollution and watershed management and increase access to improved water supply in selected landscapes in support of Zhejiang's program for the protection of Qiandao Lake and Xin'an River Basin.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

Component 1: Landscape Management Improvement:(Cost \$86.02 M)

Component 2: Water Resources Management Improvement:(Cost \$54.36 M)

Component 3: Institutional Capacity Building, Monitoring and Project Management:(Cost \$9.25 M)

Overall Ratings

| Name | Previous Rating | Current Rating |
|--------------------------------------|---------------------------------------|---------------------------------------|
| Progress towards achievement of PDO | <input type="checkbox"/> Satisfactory | <input type="checkbox"/> Satisfactory |
| Overall Implementation Progress (IP) | <input type="checkbox"/> Satisfactory | <input type="checkbox"/> Satisfactory |
| Overall Risk Rating | <input type="checkbox"/> Moderate | <input type="checkbox"/> Moderate |

Implementation Status and Key Decisions

The Project is on track to achieve the development objectives. Over the past reporting period, good progress has been achieved in reducing pollutant loads and partially restoring river and lake basin ecosystems as reflected in the results target achievements. Physical progress of most activities has reached more than 60 percent of Project targets even under the Covid-19 pandemic. The Project's integrated watershed management approach has been adopted by key agencies. The IBRD loan disbursement rate has increased to 45 percent. 108 Bank financed contracts are awarded and implemented with half of contracts completed. Key activities have achieved substantial results, which included low-pollution impact farming, integrated riverbank restoration, degraded forest rehabilitation and resilience enhancement as well as improved access to rural water supply. The payment for the environmental services (PES) pilot has generated good lessons and experiences in developing market-based mechanisms for sustainable watershed management. Given that the majority of project activities are advancing on schedule and with good results, the progress towards achievement of the PDO and IP continue to be rated as Satisfactory.

The next Bank implementation review mission is tentatively scheduled for September 2022.



Risks

Systematic Operations Risk-rating Tool

| Risk Category | Rating at Approval | Previous Rating | Current Rating |
|--|--------------------|-----------------|----------------|
| Political and Governance | Low | Low | Low |
| Macroeconomic | Low | Low | Low |
| Sector Strategies and Policies | Moderate | Moderate | Moderate |
| Technical Design of Project or Program | Moderate | Moderate | Moderate |
| Institutional Capacity for Implementation and Sustainability | Substantial | Moderate | Moderate |
| Fiduciary | Moderate | Moderate | Moderate |
| Environment and Social | Moderate | Moderate | Moderate |
| Stakeholders | Moderate | Moderate | Moderate |
| Other | -- | Moderate | Moderate |
| Overall | Moderate | Moderate | Moderate |

Results

PDO Indicators by Objectives / Outcomes

| Strengthen integrated pollution and watershed management in the Qiandao Lake and Xin'an River Basin | | | | |
|---|--|-------------------|------------------|-------------|
| ► Nitrogen load reduction achieved under the project (Percentage, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 10.80 | 16.80 | 25.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| Comments: | The achievements of result targets for all indicators are based on the reviewed PPMO's latest progress report. The percentage of nitrogen load reduced in the reporting period compared to the baseline accounts for 24 percent of the end target. | | | |
| ► Phosphorus load reduction achieved under the project (Percentage, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |



| | | | | |
|--|---|-------------------|------------------|-------------|
| Value | 0.00 | 10.50 | 13.60 | 30.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| Comments: | The percentage of phosphorus load reduced in the reporting period is 3.1% percent. | | | |
| ► Decrease of soil erosion (Percentage, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 8.70 | 16.50 | 20.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| Comments: | The percentage of decrease of soil erosion achieved 39 percent of the total target during the current reporting period. | | | |

| | | | | |
|--|--|-------------------|------------------|-------------|
| Increase access to improved water supply in the Qiandao Lake and Xin'an River Basin | | | | |
| ► People provided with access to improved water sources (Number, Corporate) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 162,819.00 | 203,172.00 | 218,100.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| Comments: | The number of people provided with access to improved water sources increased 40,353 in this period. | | | |

Intermediate Results Indicators by Components

| | | | | |
|---|-------------|-------------------|------------------|-------------|
| Component 1: Landscape Management Improvement | | | | |
| ► Reduction in pesticide consumption in project areas (Tons/year, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 72.10 | 72.10 | 92.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► Reduction of phosphorus consumption in project areas (Tons/year, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 769.60 | 769.60 | 1,380.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |



| ► Reduction of nitrogen consumption in project areas (Tons/year, Custom) | | | | |
|---|--|-------------------|------------------|-------------|
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 1,537.00 | 1,537.50 | 3,080.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► Areas of degraded monoculture plantations converted to mixed stands with multiple species (Hectare(Ha), Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 4,747.00 | 5,879.00 | 10,470.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► Areas of denuded forests fully planted with multiple tree and shrub species (Hectare(Ha), Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 1,416.00 | 1,898.40 | 2,260.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► Number of tree species introduced by the project to diversify forest ecosystems (Number, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 9.00 | 52.00 | 54.00 | 40.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► Decrease of pest incidence in project areas (Percentage, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 30.00 | 30.00 | 15.67 | 10.00 |
| Date | 01-Jul-2018 | 30-Jun-2020 | 30-Apr-2022 | 30-Jun-2024 |
| Comments: | The baseline of 30 percent was confirmed during the project preparation, based on pest seriously damaged areas. which was identified as key areas for forest restoration at early preparation stage. | | | |

Component 2: Water Resources Management Improvement

► Length of river bank rehabilitated (Kilometers, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|----------|-------------------|------------------|------------|
| Value | 0.00 | 208.00 | 208.62 | 204.00 |



| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
|---|-------------|-------------------|------------------|-------------|
| ► Number of overflow weir dams upgraded and rehabilitated (Number, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 15.00 | 82.00 | 85.00 | 85.00 |
| Date | 30-Jun-2019 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► Increase in delivery capacity of safe water supply (Cubic Meter(m3), Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 34,295.00 | 37,858.00 | 38,400.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► New piped household water connections under the project (Number, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 46,520.00 | 58,049.00 | 62,300.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |

Component 3: Institutional Capacity Building, Monitoring, and Project Management

| ► Number of research and study programs (by topic) conducted (Number, Custom) | | | | |
|--|-------------|-------------------|------------------|-------------|
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 3.00 | 3.00 | 5.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► Number of workshops organized (Number, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 2.00 | 2.00 | 5.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| ► Project staff and beneficiaries trained (person days) (Days, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 6,066.00 | 6,586.00 | 19,300.00 |



| | | | | |
|---|---|-------------------|------------------|-------------|
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| <input type="checkbox"/> Number of beneficiaries trained --Female (person days) (Days, Custom Breakdown) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 1,851.00 | 2,061.00 | 5,790.00 |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| <input type="checkbox"/> Number of project management staff trained (person days) (Days, Custom Supplement) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 1,789.00 | 1,949.00 | 2,100.00 |
| <input checked="" type="checkbox"/> Project monitoring system established and put into operation (Yes/No, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | No | Yes | Yes | Yes |
| Date | 01-Jul-2018 | 30-Jun-2021 | 30-Apr-2022 | 30-Jun-2024 |
| Comments: | The project monitoring system was established in December 2020 and is fully functional going forward. | | | |

Performance-Based Conditions

Data on Financial Performance

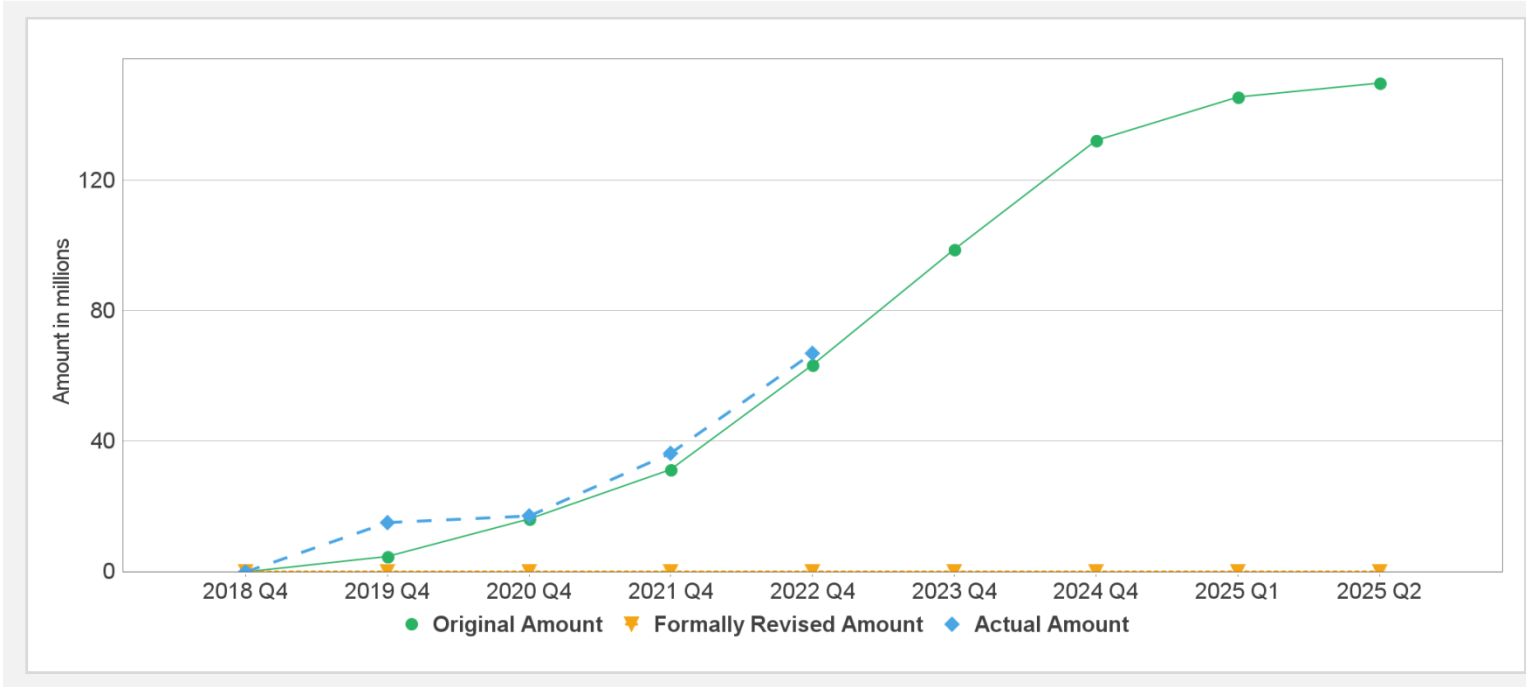
Disbursements (by loan)

| Project | Loan/Credit/TF | Status | Currency | Original | Revised | Cancelled | Disbursed | Undisbursed | % Disbursed |
|---------|----------------|-----------|----------|----------|---------|-----------|-----------|-------------|-------------|
| P159870 | IBRD-88560 | Effective | USD | 150.00 | 150.00 | 0.00 | 67.29 | 82.71 | 45% |

Key Dates (by loan)

| Project | Loan/Credit/TF | Status | Approval Date | Signing Date | Effectiveness Date | Orig. Closing Date | Rev. Closing Date |
|---------|----------------|-----------|---------------|--------------|--------------------|--------------------|-------------------|
| P159870 | IBRD-88560 | Effective | 06-Jun-2018 | 10-Aug-2018 | 26-Nov-2018 | 30-Jun-2024 | 30-Jun-2024 |

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.