



Huainan Mining Area Rehabilitation Project (P133000)

EAST ASIA AND PACIFIC | China | Urban, Resilience and Land Global Practice |
IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 13 | ARCHIVED on 28-Dec-2021 | ISR48815 |

Implementing Agencies: Huainan Project Management Office, People's Republic of China

Key Dates

Key Project Dates

Bank Approval Date: 11-May-2015

Effectiveness Date: 16-Sep-2015

Planned Mid Term Review Date: 15-Oct-2018

Actual Mid-Term Review Date: 15-Oct-2018

Original Closing Date: 30-Jun-2021

Revised Closing Date: 30-Jun-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objective is to remediate and create a public space at the JiuDa mining site in Huainan city.

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

No

Components Table

Name

Component 1: Environmental Remediation and Water Management:(Cost \$57.87 M)

Component 2: Infrastructure Improvement and Site Utilization:(Cost \$24.18 M)

Component 3: Capacity Building and Technical Assistance:(Cost \$3.02 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"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> Moderate	<input type="checkbox"/> Low

Implementation Status and Key Decisions

The progress towards achievement of the Project Development Objective and overall implementation are on track. Since the beginning of implementation, more than 150,000m³ of various solid wastes, scattered across an area of 94.90 hectares of land, have been removed and the sites cleaned. An old municipal solid waste dumpsite has been closed after the safe disposal of around 1 million m³ of waste accumulated over decades that polluted the areas' water, soil and air. The site has been converted to a public space, attracting 75,000 visitors for leisure, entertainment, and sightseeing presently. The project has enhanced the vegetation and plantation coverage from below 20% to 76% and the environment has been improved and biodiversity also has increased. This is evidenced by more migratory birds and wild animals witnessed by the citizens and reported by the local media. The remediation works have also turned the old mining areas into lakes surrounded by vegetation, one of which becoming a new habitat for migratory birds (mandarin ducks, second class national protected animals) since October 2017.



Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

To remediate the JiuDa mining site				
▶ KPI #1 Dump sites closed under the project (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	94.90	94.90	94.90
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 and end targets achieved. This is the result of combined activities across 9.3km2 subsidence area, including 1) removal of mining wastes/low graded coal by their owners; 2) removal of construction wastes for recycling; and 3) removal of municipal solid wastes (SW) to a safe dumping site constructed with good practices for SW management under the project. Data source: Datong local government.			
▶ KPI #2 Improved water quality in the remediated area (water quality grade) (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	Below Class V	Class V	Class V	Class V
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 and end targets achieved. Information source: Progress Report #11 submitted by Huainan PMO on July 2021. Measured by the project environmental monitoring agency.			

To create a public space in JiuDa mining site				
▶ KPI #3 Satisfaction of users of public space created under the project (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	70.00	72.00	75.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 target exceeded. The result shows the satisfaction level of users (men and women) of the public space financed by the project. Information source: Progress Report #11 submitted by Huainan PMO on July 2021.			
□ KPI #3.1 Satisfaction of female users (Percentage, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	68.00	72.00	75.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
□ KPI #3.2 Satisfaction of male users (Percentage, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	70.00	72.00	75.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
▶ KPI #4 Public space created (public park, tourist/exhibition centers and associated entertainment/ recreational facilities) (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	330.00	350.00	379.67
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 target exceeded. The areas include remediated land open to the public. Most of site facilities like service stations, visitor's centers are structurally completed with their interior decoration under implementation, targeting their full completion and becoming operational in April 2022. Information source: Project Progress Update by Huainan PMO on December 3, 2021.			

To remediate and create a public space at the JiuDa mining site



► KPI #5 Direct project beneficiaries (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	20,200.00	22,500.00	20,000.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 target achieved. Closure of the informal dumpsite has directly benefited 22,500 residents, of which 50% are from improved environment including reduced nuisances of wastewater, solid waste and odors; 30% are from improved infrastructure with better access to the downtown, provision of drainage services and 20% are from reduced risks due the flooding, reduced soil contamination and remediation activities. Data source: PIU – Municipal Landscaping and Construction Bureau and local government.			
□ KPI #5.1 Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	52.00	52.00	47.00

Overall Comments

End target exceeded.

Closure of the informal dumpsite has directly benefited 22,500 residents, of which 50% are from improved environment including reduced nuisances of wastewater, solid waste and odors; 30% are from improved infrastructure with better access to the downtown, provision of drainage services and 20% are from reduced risks due the flooding, reduced soil contamination and remediation activities.

Data source: PIU – Municipal Landscaping and Construction Bureau and local government.

Intermediate Results Indicators by Components

Component 1: Environmental Remediation and Water Management				
► IRI 1.1 Land area remediated with improved vegetation coverage (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	312.00	350.00	350.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 and final targets achieved. The result shows the cumulative land area remediated with improved vegetation coverage. Information source: Project Progress Update by Huainan PMO on December 3, 2021.			
► IRI 1.2 Vegetation cover of the remediated areas (Percentage) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	20.00	75.80	76.00	75.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	Final target exceeded. This is estimated by the Forestation Department. Detailed survey through aerial photographing has been scheduled. information source: Project Progress Update by Huainan PMO on December 3, 2021			
► IRI 1.3 Leachate collected and treated for safe disposal annually (Cubic Meter(m3), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	350.00	350.00	350.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	Final target achieved. Information source: Project Progress Update by Huainan PMO on December 3, 2021. Provided by PIU from operational logs from the Operating Company.			
► IRI 1.4 Area protected against 1/30 year floods (Square kilometer(km2), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	7.30	9.00	9.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	Final target achieved. This result shows the cumulative land area protected against 1/30 year floods thanks to the project financed rehabilitation of the small water streams within the project area for storm water drainage and rainwater harvesting for plant irrigation and landscaping. Information source: Project Progress Update by Huainan PMO on December 3, 2021.			
► IRI 1.5 Length of green paths constructed (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	20.40	28.82	28.82
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	Final target achieved. The information source: Project Progress Update by Huainan PMO on December 3, 2021. Construction results by PIU.			
► IRI 1.6 Length of the flood discharge canals rehabilitated (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	7.70	8.09	8.09
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2020 target achieved. The information source: Project Progress Update by Huainan PMO on December 3, 2021.			



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Component 2: Infrastructure Improvement and Site Utilization				
► IRI 2.1 Length of road rehabilitated/constructed (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.40	4.40	6.07
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 target exceeded. The contractor terminated the original contract. A new contractor was mobilized and construction is ongoing. The final target is expected to be achieved by late January 2022. Information source: Project Progress Update by Huainan PMO on December 3, 2021. Provided PIU – Municipal Landscaping and Construction Bureau.			
► IRI 2.2 Number of people employed through site utilization activities (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	185.00	350.00	430.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 annual target met. More operation and maintenance activities of the site are planned to have the result achieved. Site operation entity is taking over the completed project facilities. Information source: Project Progress Update by Huainan PMO on December 3, 2021.			
□ IRI 2.2.1 Number of women employed through site utilization activities (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	130.00	180.00	206.00
► IRI 2.3 Number of visitors to public space created (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	56,000.00	75,000.00	100,000.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 target exceeded. A big jump in the number of visitors is expected when all project facilities are completed by mid 2022. Currently some regions are still not fully open due to safety concerns. The result shows the actual number of visitors to the public space created under the Project annually. Estimated by the PIU by sampling survey is scheduled by PIU at the late implementation stage before loan closing. Source: Project Progress Update by Huainan PMO on December 3, 2021			
□ IRI 2.3.1 Number of Women visitors to public space created (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	24,000.00	34,000.00	48,000.00
► IRI 2.4 Total areas of tourist service center constructed (Square Meter(m2), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	2,000.00	3,998.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 target is yet to be achieved. The structural works have been completed and decoration works are ongoing. Full completion of all construction and full achievement of final target is expected by April 2022. Data source: Project Progress Update by Huainan PMO on December 3, 2021.			
► IRI 2.5 Number of Curbside Service Stations with Public Toilets Constructed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	3.00	5.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	2021 target achieved. The structural construction of all service stations has been completed. The interior decoration is ongoing. Three stations have been substantially completed. All facilities will be operational in April 2022. Data source: PIU.			
► IRI 2.6 Number of Irrigation Pumping Stations Constructed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	3.00	3.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	End target achieved. Construction of these pony pumping stations is completed. The installation of equipment has been substantially completed. Power supply feeding the pumping stations and pipe networks linking the service areas are have been completed by 70%. Commissioning will be ready in March, 2022. Data source: Project Progress Update by Huainan PMO on December 3, 2021.			

Component 3: Capacity Building and Technical Assistance

► IRI 3.1 Number of people trained at the skills training institutions (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	266.00	546.00	965.00
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022



Comments:	2021 target yet to be achieved. More training sessions with 450 attendees have been scheduled from December 2021 to March 2022 by the local government. Site operation entity has also schedule some training for future site operation. Source: Project Progress Update by Huainan PMO on December 3, 2021. Provided by Datong local government.			
<input type="checkbox"/> IRI 3.1.1 Number of women trained at the skills training institutions (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	173.00	291.00	463.00
<input type="checkbox"/> IRI 3.2 Technical Guidelines for mining subsidence area rehabilitation & redevelopment (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Non-Existent	Interim reports submitted.	final report submitted and disclosed on the government website; workshops held on Nov 30, 2021	Technical Guidelines disseminated on Website
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	Final report submitted and disclosed on the government website (http://fgw.huainan.gov.cn/xmgs/551594483.html). Workshops were held on Nov 30, 2021. Information source: Project Progress Update by Huainan PMO on December 3, 2021.			
<input type="checkbox"/> IRI 3.3 Project site management entity established and operational (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	23-Sep-2014	31-May-2021	10-Dec-2021	30-Jun-2022
Comments:	End target achieved. The site operation entity has been appointed in August 2021. Bank task team met the operator during the mission in October 2021, requesting that operation plan should be prepared with budget allocated and staff mobilized in the first quarter of 2022. Information source: Project Progress Update by Huainan PMO on December 3, 2021.			

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

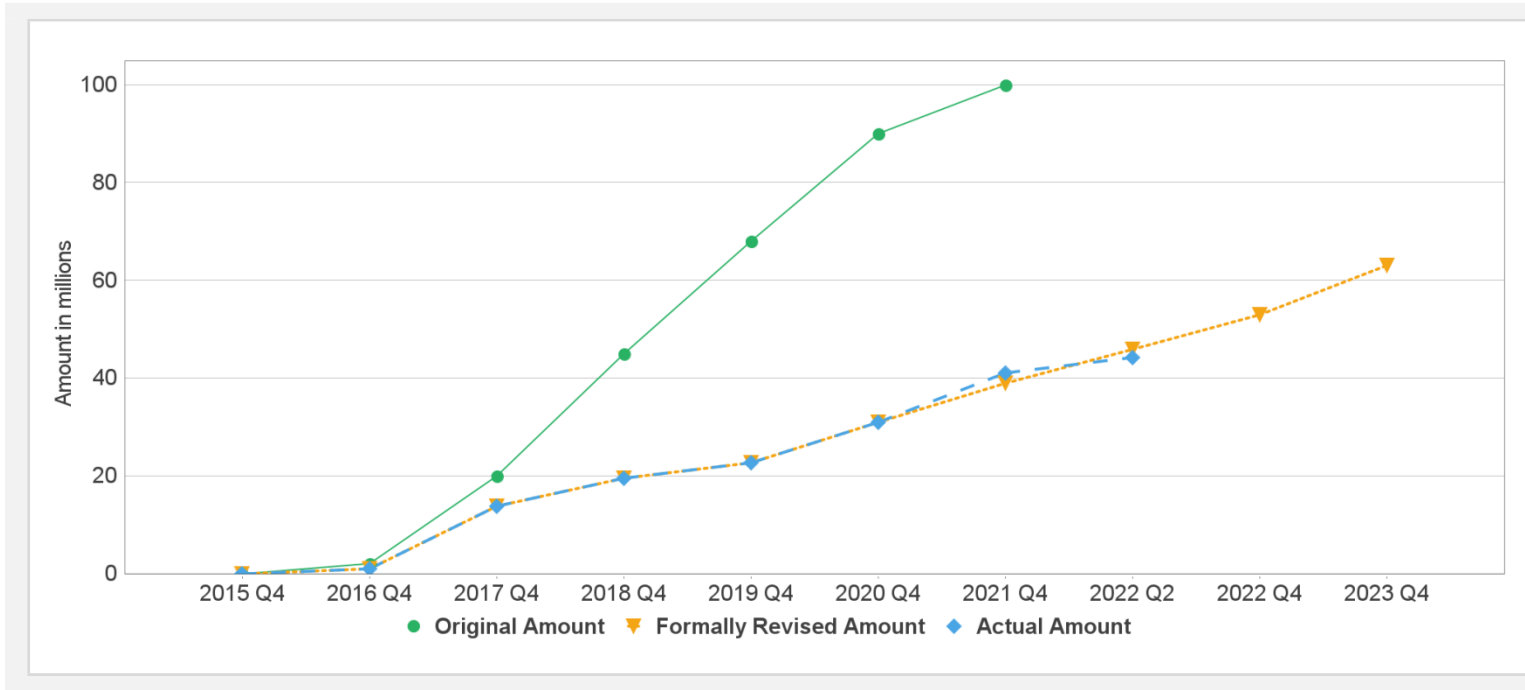
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P133000	IBRD-85120	Effective	USD	100.00	63.00	37.00	48.35	14.65	77%



Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P133000	IBRD-85120	Effective	11-May-2015	23-Jun-2015	16-Sep-2015	30-Jun-2021	30-Jun-2022

Cumulative Disbursements



PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC
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Restructuring History

Level 2 Approved on 22-Sep-2020 ,Level Approved on 02-Nov-2020 ,Level 2 Approved on 22-Nov-2021

Related Project(s)

There are no related projects.