



National Park Service

Great American Outdoors Act – National Parks and Public Land Legacy Restoration Fund

Data Sheets for Adjustments to Fiscal Year 2021 Projects

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 19.41

Planned Funding FY 2021: \$0 (*change of -\$5,083,000 from FY 2021 list*)

Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Purchase and Install 8 Modular Housing Units to Replace Deteriorated Housing Units Parkwide To Be Determined

Project Number: GAOA ID #N039, NPS PMIS #311845

Unit/Facility Name: Yellowstone National Park

Region/Area/District: Upper Colorado Basin

Congressional District: WYAL

State: WY

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
0	253314	40	0.00
0	253291	40	0.00
0	253298	40	0.00
0	253264	40	0.00
0	253315	40	0.00
0	253299	40	0.00
0	253290	40	0.00
0	253262	40	0.00
40710900	4272	100	0.70
40710900	4268	88	1.0
40710900	4278	100	0.86
40710900	4274	100	0.10

Project Removal Justification:

After the initial project list was submitted, the National Park Service Investment Review Board (IRB) conducted a secondary review and concluded that additional time is needed to scope, evaluate, and plan this investment.

Project Description:

This project installs up to eight replacement housing units to provide safe and healthy living quarters for NPS employees. The project includes the full scope from purchase to delivery, foundation, installation, and connection to utilities.

A previous project funded through Line Item Construction in fiscal year 2020 installed 64 new modular housing units to replace obsolete trailers. This project continues the effort to improve employee living condition and will be funded if additional units are determined to be needed. Units will be purchased off existing supply contract. The deteriorated units scheduled for replacement in the LIC project have a range of maintenance and structural issues such as deteriorated siding, roofs, outdated electrical and plumbing components, and rodent infestation.

Scope of Benefits (SB):

This project will provide housing for staff. The modular units will meet the requirements of the Architectural Barriers Act Accessibility Standard (ABAAS) and provide efficiencies in operations and maintenance.

Investment Strategy (IS):

This project expands a previous series of trailer replacement projects originally described in previous construction plans. While the park initially considered phased construction projects of multiplex buildings, review of project costs and scope indicated the Service would save money by purchasing and installing modular homes instead.

Consequences of Failure to Act (CFA):

There are no other housing options in these remote areas. With no place to live there would be fewer employees to meet the park needs.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.65
API Rating:	n/a	58.46
API/FCI Score:	(40%)	18.06
SB Score:	(20%)	1.02
IS Score:	(20%)	0.33
CFA Score:	(20%)	0.00
Total Score:	(100%)	19.41

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: No

VE Study: Scheduled: FY2021/Q2

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 0	0
Capital Improvement Work:	\$ 0	0
Total:	\$ 0	0

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 0
FY 2021 Legacy Restoration Fund (this PDS):	\$ 0
Future Funding to Complete Project:	\$ 0
Total:	\$ 0

Class of Estimate: B

Estimate Escalated to FY 2021/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 0
LRF Design Funds Received:	\$ 0
Planning Funds Received from Other Fund Sources:	\$ 0
Design Funds Received Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: N/A
- Actual: N/A

Project Complete

- Scheduled: N/A
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$0

Projected: \$0

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 49.50

Planned Funding FY 2021: \$0 (*change of -\$3,503,000 from FY 2021 list*)

Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Replace Sugarlands Maintenance Facilities

Project Number: GAOA ID #N053, NPS PMIS #293231

Unit/Facility Name: Great Smoky Mountains National Park

Region/Area/District: South Atlantic - Gulf

Congressional District: TN01

State: TN

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
0	253845	57	0.00
0	253846	48	0.00
0	253844	57	0.00
0	253843	57	0.00
35100000	64179	53	0.19
35410100	64312	53	0.01
35410300	64183	48	0.00
35410300	64181	60	0.22
35410500	64182	38	0.00
35410500	64200	48	0.08
35410700	64178	61	0.15
35600100	64176	60	0.16
35600100	64180	60	0.02
35600200	64177	50	0.57
35600200	64199	31	0.00
35800400	64175	60	0.00
40660100	103790	60	0.67
40660100	58142	92	0.35
40660100	103777	69	0.77
40760100	58125	88	0.24

Project Removal Justification:

After the initial project list was submitted, the National Park Service Investment Review Board (IRB) conducted a secondary review and concluded that additional time is needed to scope, evaluate, and plan this investment.

Project Description:

The Sugarlands District maintenance yard and related administrative facilities in Great Smoky Mountains National Park serves as an operational hub for the entire facility maintenance division. The buildings, driveways, and parking areas associated with the maintenance yard have not been renovated or rehabilitated in decades. There are safety hazards, inadequate space or capacity for park maintenance and operations personnel, and facilities that are entirely insufficient for essential park operations and maintenance. The condition of many buildings is so poor that replacement and disposal is likely the only practical option. This project will complete predesign project programming and budgeting and develop a Design Build RFP for the rehabilitation or replacement of facilities and associated utilities, parking, and grounds.

Scope of Benefits (SB):

- 1.2 Improve ADA Accessibility
- 1.4 Remediate Poorest FCI Facilities
- 2.1 Reduce or Eliminate Deferred Maintenance
- 2.4 Remove, Replace, or Dispose of Assets
- 3.1 Address Safety Issues
- 3.2 Protect Employees / Improve Retention
- 4.1 Modernize Infrastructure

Investment Strategy (IS):

- The park facility maintenance division is critical to ensuring the more than 12 million visitors received by the park annually can continue to recreate safely.
- Various systems have reached the end of their useful lives, resulting in increasingly frequent and expensive corrective maintenance costs. Structural components, including the roof and exterior walls, show deterioration that will likely result in structural damage. Repair or replacement of these facilities will:
 - Increase efficiency and productivity of park staff by consolidating departments into single locations.
 - Increase retention of workers familiar with park facilities.
 - Provide fire suppression to protect the government's investment.

Consequences of Failure to Act (CFA):

- Failure to complete this project means park operations and maintenance personnel will continue working in structures with multiple safety concerns such as overcrowding, tripping hazards, animal intrusions, ergonomic and environmental hazards, and possible exposure to hazardous materials. They will also continue to use the unsafe and deteriorated asphalt driveway and parking areas in the maintenance yards.
- Lack of space for proper placement of emergency equipment increases emergency response time and increases risk to the public as well as to historic structures.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.169
API Rating:	n/a	57.50
API/FCI Score:	(40%)	27.78
SB Score:	(20%)	1.98
IS Score:	(20%)	12.76
CFA Score:	(20%)	6.98
Total Score:	(100%)	49.50

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: No

VE Study: Scheduled: FY2022/Q1

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 0	0
Capital Improvement Work:	\$ 0	0
Total:	\$ 0	0

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 0
FY 2021 Legacy Restoration Fund (this PDS):	\$ 0
Future Funding to Complete Project:	\$ 0
Total:	\$ 0

Class of Estimate: B

Estimate Escalated to FY 2021/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 0
LRF Design Funds Received:	\$ 0
Planning Funds Received from Other Fund Sources:	\$ 0
Design Funds Received Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: N/A
- Actual: N/A

Project Complete

- Scheduled: N/A
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$0

Projected: \$0

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 49.50

Planned Funding FY 2021: \$95,346,000 (*change of +\$8,586,000 from FY 2021 list*)

Funding Source: Legacy Restoration Fund

Project Identification

Project Title: FY22+ Project Planning & Compliance

Project Number: N/A

Unit/Facility Name: N/A

Region/Area/District: Multiple

Congressional District: Multiple

State: Multiple

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
N/A	N/A	N/A	N/A

Project Increase Justification:

Funding for cancelled FY21 projects (N039 and N053) has been re-allocated to FY22+ Project Planning and Compliance, increasing its total by \$8,586,000.

Project Description:

Funding will be used to complete planning and compliance required for current and future Legacy Restoration Fund (LRF) projects. This includes:

- **Planning:** This activity supplies critical budgetary resources needed to develop construction plans and specifications essential for acceptable completion of major maintenance, repair, and replacement construction projects for the LRF. In addition to final design documents, this funding typically supports pre-design project programming and budgeting, schematic alternatives, and concept drawings.
- **Compliance:** This activity also provides funding for compliance needs related to addressing impacts to natural and cultural resources. Regulatory requirements that frame compliance activities include the National Environmental Policy Act (NEPA), Section 106 of the National Historic Preservation Act, executive orders, and state requirements. Examples of compliance support include archeological surveys, hazardous material surveys, preparation of historic structure documentation, coordination with State/Tribal Historic Preservation Offices, and environmental assessments.

Planning and compliance funding are a necessary component of any construction project, supporting activities including project pre-planning, development, and scope and cost validation. This activity enhances the NPS's ability to conduct legally defensible, scientifically based analyses that facilitate sound decision-making. It also provides support for compliance needs associated with major construction projects.

At the FY 2021 funding level, planning and compliance funding will:

- Support the Pre-designs, Final Designs and Supplemental Services for successful execution of the LRF.
- Support project planning and project development for large-scale or complex construction projects that will be submitted for LRF funding in future years.
- Provide funding for compliance.

Scope of Benefits (SB):

N/A

Investment Strategy (IS):

N/A

Consequences of Failure to Act (CFA):

N/A

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	N/A
API Rating:	n/a	N/A
API/FCI Score:	(40%)	0
SB Score:	(20%)	0
IS Score:	(20%)	0
CFA Score:	(20%)	0
Total Score:	(100%)	0

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: No

VE Study: N/A

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 0	0
Capital Improvement Work:	\$ 0	0
Total:	\$ 0	0

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 0
FY 2021 Legacy Restoration Fund (this PDS):	\$ 95,346
Future Funding to Complete Project:	\$ 0
Total:	\$ 95,346

Class of Estimate: N/A

Estimate Escalated to N/A

Planning and Design Funds (dollars in thousands):

Planning Funds Received from Other Fund Sources:	\$ N/A
Design Funds Received Other Fund Sources:	\$ N/A

Major Milestones

Construction Award/Start

- Scheduled: N/A
- Actual: N/A

Project Complete

- Scheduled: N/A
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: N/A

Projected: N/A

Net Change: N/A



National Park Service

Great American Outdoors Act – National Parks and Public Land Legacy Restoration Fund

Data Sheets for Fiscal Year 2022 Projects

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 66.11 / 01
Planned Funding FY 2022: \$71,200,000
Funding Source: Legacy Restoration Fund - Transportation

Project Identification

Project Title: Replace the Yellowstone River Bridge
Project Number: GAOA ID #N086, NPS PMIS #225354
Unit/Facility Name: Yellowstone National Park
Region/Area/District: Upper Colorado Basin
Congressional District: WYAL
State: WY

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
0	255085	92.00	0.00
40760100	4403	92.00	0.52
40760500	45303	92.00	0.53

Project Description:

This project will replace the 604 linear foot, structurally deficient, steel girder Yellowstone River Bridge between Tower Junction and the Yellowstone River Picnic area with a new steel girder bridge. Work will include realignment of the approach roads in the vicinity of the bridge.

Scope of Benefits (SB):

The Yellowstone River Bridge was constructed in 1961 and has exceeded its intended design life. This park road and bridge are critical as this route provides the only access to the gateway community of Cooke City, Montana during the winter. A 2018 bridge safety inspection rating concluded the bridge is “seriously deficient... [presenting] a safety hazard but can remain in service at reduced loads or with frequent inspections.”

Deficiencies and concerns include widespread concrete deterioration, limited resistance to seismic events, risk of superstructure corrosion, severe bank sloughing, footings vulnerable to scour, and steep grades and winding approach roads that are hard to navigate in the winter ice and snow. The poor road conditions along this segment also contribute to an increased potential for traffic crashes and vehicle damage. Insufficient guardrails leave steep drop-offs near the roadway unguarded, which also contributes to the unsafe conditions along this portion of the roadway.

Investment Strategy (IS):

Given the condition of the existing bridge, rehabilitation was evaluated and rejected as just a temporary fix that would not address all the deficiencies. Replacement of the bridge will address all of the concerns, eliminating the need for recurring repairs and corrective maintenance on expansion joints, deteriorated concrete curbs, sidewalks, deck, and railings.

The new bridge is designed for a 75-year life span. Once complete, the park will initiate preventive maintenance activities to maintain the road and bridge in good condition. The need for recurring maintenance such as repainting steel girders will be eliminated with the new weathering steel girders. Improved design will prevent major failure in the event of a seismic event.

Consequences of Failure to Act (CFA):

The bridge and road will continue to deteriorate if this bridge is not replaced. Additional structural deterioration may require load restrictions or closure. These restrictions and any closures could greatly impact the gateway community of Cooke City, Montana, along with its visitors and operations as this is the only winter access route to that community. Conflicts with pedestrians and vehicles will continue to impact traffic flow and cause safety concerns.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.41
API Rating:	n/a	92.00
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	12.38
IS Score:	(20%)	13.07
CFA Score:	(20%)	0.66
Total Score:	(100%)	66.11

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Completed 08/2018

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 38,836	55
Capital Improvement Work:	\$ 32,364	45
Total:	\$ 71,200	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 5,735
FY 2022 Legacy Restoration Fund (this PDS):	\$ 71,200
Future Funding to Complete Project:	\$ 0
Total:	\$ 76,935

Class of Estimate: B

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 30
LRF Design Funds Received:	\$ 5,070
Planning Funds Received from Other Fund Sources:	\$ 346
Design Funds Received Other Fund Sources:	\$ 289

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$520,000

Projected: \$520,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 93.30 / 02
Planned Funding FY 2022: \$19,407,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Ahwahnee Hotel and Correct Critical Safety Hazards
Project Number: GAOA ID #N088, NPS PMIS #154910B
Unit/Facility Name: Yosemite National Park
Region/Area/District: California – Great Basin
Congressional District: CA19
State: CA

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35291700	84769	60	0.00
35291700	85811	100	0.31
35291700	83740	50	0.00
35291700	84566	60	0.00
35291700	84563	60	0.01
35291700	84562	60	0.00
35291700	84564	60	0.00
35291700	85818	60	0.00
35291700	84741	60	0.00
35291700	84565	60	0.00
35310000	84810	31	0.30

Project Description:

This project provides seismic retrofits to the Ahwahnee hotel to comply with current seismic safety standards. Work includes installing structural bracing, lateral load resisting components in floor, and shear walls in the dining room and the kitchen. Additional work includes reinforcing the fireplace, stone chimney; anchoring the exterior stone veneer; replacing large plate glass windows in the dining room and the solarium; rehabilitating other historic windows at the ground floor in public spaces; installing structural bracing of the porte cochere (the covered entryway) and entry walkway; and rehabilitating exterior log columns, rafter tails, soffits and panels.

The project will also replace the kitchen floor structure, which is failing and requires annual inspection and shoring work. Other kitchen improvements will be made to address accessibility issues and to improve operating and energy efficiency. More efficient heating, ventilation, and air conditioning systems will be installed in the dining room and kitchen.

In addition, elements of the hotel that are affected by of the seismic retrofit work will be replaced or rehabilitated as appropriate, including attic insulation, fireproofing, fire separation, utilities, and other interior finishes.

Scope of Benefits (SB):

This project will have a direct benefit to park visitors. Each year, approximately 38,000 visitors stay at the Ahwahnee as lodging guests; another 300,000 shop or dine in the facility. The project will improve visitor and staff health and safety, including enhanced seismic resistance throughout the hotel and fire safety in the kitchen. Heating, ventilation, and air conditioning upgrades in the dining room will improve visitor comfort. Historic elements impacted by the seismic work—including terraces, windows, and finishes—will be restored.

The project will address \$18 million of maintenance/repair work.

Investment Strategy (IS):

Seismic stability improvements will ensure the building can better withstand earthquake events. In addition, the improvements significantly improve the safety of visitors and employees and reduce the magnitude of disaster repair costs—especially for minor seismic events

The hotel is operated by the park concessioner. The concessions operation at Yosemite is the largest single concessions contract in the National Park Service.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-40 years for the kitchen improvements, 50-75 years for the steel seismic bracing.

Consequences of Failure to Act (CFA):

Failure to act will result in the structure remaining out of compliance with federal seismic safety standards, increasing the risk to visitors, staff, and the historic resource. The kitchen floor structure has significantly deteriorated and will fail if no action is taken.

Failure to replace the dining room HVAC will result in compromised comfort for visitors and eventual failure of the existing air handler. Kitchen utility infrastructure will continue to deteriorate and require frequent repairs.

Failure to act will leave the Ahwahnee continuing to deteriorate, resulting in loss of the building's historic fabric. Some of the loss may not be recoverable. Delay will make any later effort larger in scope, more difficult and more costly.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.514
API Rating:	n/a	60.09
API/FCI Score:	(40%)	39.53
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	13.77
Total Score:	(100%)	93.30

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Completed 12/2020

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands		Percent
Maintenance/Repair Work:	\$	18,346	95
Capital Improvement Work:	\$	1,061	5
Total:	\$	19,407	100

Project Funding History (entire project):

History	Dollars in thousands	
Funded to Date:	\$	1,403
FY 2022 Legacy Restoration Funding (this PDS):	\$	19,407
Future Funding to Complete Project:	\$	0
Total:	\$	20,810

Class of Estimate: B

Estimate Escalated to FY 2021/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	0
LRF Design Funds Received:	\$	0
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	1,403

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q4
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$450,000

Projected: \$412,000

Net Change: - \$38,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 60.10 / 03
Planned Funding FY 2022: \$45,200,000
Funding Source: Legacy Restoration Fund - Transportation

Project Identification

Project Title: Rehabilitate Sections of the East Rim Drive
Project Number: GAOA ID #N065, PMIS ID #241696
Unit/Facility Name: Crater Lake National Park
Region/Area/District: California – Great Basin
Congressional District: OR02
State: OR

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40660100	75513	58.00	0.49
40660100	75512	58.00	1.00
40660100	75501	56.00	0.01
40660100	75514	58.00	1.00
40660100	75499	58.00	0.00
40660100	75497	58.00	0.00
40660100	75511	58.00	0.04
40660100	75503	50.00	0.19
40660100	75507	58.00	0.16
40660100	75508	58.00	0.21
40660100	75506	58.00	0.04
40660100	75504	67.00	0.03
40660100	75509	58.00	0.06
40660100	75498	58.00	0.00
40660100	75515	50.00	0.10
40760100	75125	52.00	0.07
40760100	74788	81.00	0.23

Project Description:

This project will improve approximately 19 miles of roadway on East Rim Drive with a combination of pavement overlays and full depth pavement rehabilitation. Guard wall repair will be completed on several historic rock walls that have been damaged by rockfall. This project will also rehabilitate a portion of road pavement on the Cloudcap Spur Road. All associated parking areas along the East Rim Drive will be rehabilitated and will include appropriate accessibility-compliant slopes, markings, curb cuts, accessible walkways, and overlooks that comply with Architectural Barriers Act Accessibility Standards.

Scope of Benefits (SB):

East Rim Road extends along the southern, eastern, and northern rim of the Crater Lake caldera. This project will eliminate all backlog maintenance related to this road's features and will provide greater visitor access to this side of the park. This project will also serve to stabilize a significant historic resource and allow visitors to experience a smooth and stable historic roadway alignment by rehabilitating the narrow, wavy, pot-holed, and rockfall damaged pavement currently associated with the existing route. It will also apply modern safety standards for sight lines, curvature, and elevation changes, that will be balanced with the need to preserve the historic integrity of the roadway. Rehabilitation of the road will ensure a consistent travel width and a more stable shoulder.

This section of Rim Road, designed by the Bureau of Public Roads, retains the greatest historic integrity of all remaining park road features. East Rim also reveals the National Park Service's roadside landscape design intent of the period, a unique design feature of Crater Lake that will be preserved for the enjoyment of future generations.

Improving the facilities in this less-visited area of the park is key to the park's strategy to create quality visitor experiences that will allow them to disperse use from areas of the park that receive heavier visitor use. East Rim is currently one of the less visited areas of the park, where visitors can enjoy natural quiet and dark skies.

Investment Strategy (IS):

The total cost of facility ownership will be reduced significantly when the roadway is repaired using modern engineering techniques and standards. Planned operations and maintenance activities will remain constant, however, improved conditions resulting from the project will allow for operations and maintenance to be focused on preventative maintenance rather than corrective and unscheduled maintenance. Repair of the road will also serve to better protect the lake and the park's natural and cultural resources. The improved roadway grades will divert stormwater from entering Crater Lake's pristine and famously clear water. Drainage features will be repaired to prevent further erosion issues that are prevalent throughout East Rim Drive as a result of the highly erosive soils. Visitors, concessions operations, and Commercial Use Permits will have safer and more reliable access to the road throughout the open season.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 20-30 years.

Consequences of Failure to Act (CFA):

This road is structurally failing, posing risks to visitor safety and the integrity of a significant historic resource. East Rim Road was constructed using 1930s technology and methods, and little change to the road base or alignment has occurred since that time. As a result, larger modern vehicles will continue to be driven too fast on narrow, windy, bumpy, and inconsistent road surfaces, posing a safety concern for all travelers. The existing safety concerns extend beyond just vehicle traffic. Bicyclist safety will decrease because bicycle tires are particularly vulnerable to the poor quality of the road surface. Additionally, drainages would not be repaired and would continue to threaten the quality of critically important water resources. Access to this section of roadway could be reduced due to current or worsening conditions. Seasonal opening of this road will continue to be delayed in the spring/early summer as critical repairs are made, which impacts the visiting public's ability to access the views, campground, and other experiences on the east side of Crater Lake.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.21
API Rating:	n/a	58.47
API/FCI Score:	(40%)	31.06
SB Score:	(20%)	14.06
IS Score:	(20%)	14.98
CFA Score:	(20%)	0.00
Total Score:	(100%)	60.10

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Completed 07/2020

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 45,200	100
Capital Improvement Work:	\$ 0	0
Total:	\$ 45,200	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 1,715
FY 2022 Legacy Restoration Fund (this PDS):	\$ 45,200
Future Funding to Complete Project:	\$ 0
Total:	\$ 46,915

Class of Estimate: A

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 1,300
LRF Design Funds Received:	\$ 100
Planning Funds Received from Other Fund Sources:	\$ 126
Design Funds Received from Other Fund Sources:	\$ 189

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q3
- Actual: N/A

Project Complete

- Scheduled: FY 2027/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$479,000

Projected: \$479,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 72.70 / 04
Planned Funding FY 2022: \$9,327,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Replace Mammoth Wastewater Collection System
Project Number: GAOA ID #N059, NPS PMIS #311631
Unit/Facility Name: Yellowstone National Park
Region/Area/District: Upper Colorado Basin
Congressional District: WYAL
State: WY

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40710900	4268	88.00	1.00

Project Description:

This project will rehabilitate the sewer main that collects and conveys wastewater from Mammoth Hot Springs in Yellowstone National Park to the wastewater treatment plant in Gardiner, Montana. The deteriorated condition of the sewer main results in significant plant maintenance costs and led the Gardiner Park County Water and Sewer District to bring a lawsuit against the National Park Service (NPS). In response, the NPS has replaced or rehabilitated the sections of pipe associated with the highest levels of infiltration.

A significant portion of this wastewater line is located directly under the park's North Entrance Road, which experiences heavy traffic during high-visitation months. Trenchless replacement methods will be used where possible to minimize disruption to traffic and damage and repairs to asphalt. Using "Cured-in-Place Pipe" (CIPP) to line existing pipe sections will make use of the infrastructure that is already underground while achieving the end goal of providing infrastructure that will last long into the future. Using pipe-bursting where possible will result in the installation of completely new sections of pipe but involve less excavation than traditional trenching. Both of these methods can achieve similar results as but cost substantially less than direct trenching.

Scope of Benefits (SB):

Completing the rehabilitation of the Mammoth to Gardiner sewer line will reduce groundwater infiltration, some of which is thermally influenced and contains arsenic, and reduce sludge contamination at the Gardiner wastewater treatment plant. The sludge will no longer be classified as hazardous waste and can be disposed of in a normal manner. Utilizing trenchless methods of pipe lining will ensure minimal disruption to visitors along the roadway as well as minimizing resource impacts.

Investment Strategy (IS):

Using trenchless methods will significantly reduce the cost of the project because excavation of trenches would impact road surfaces and other surface assets, which would need to be repaired. Rehabilitating and maintaining the existing sewer line also avoids the cost of having to construct and operate a separate wastewater treatment plant at Mammoth Hot Springs.

Following project completion, the line will require less corrective maintenance to address leaks and clogs. The newly installed pipe lining has an expected life cycle of 50 years and will prevent groundwater infiltration, thereby reducing the arsenic levels in the sludge at the Gardiner wastewater plant. Current arsenic levels in the sludge are high enough to be classified as hazardous waste, which drives up disposal costs.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 50 years.

Consequences of Failure to Act (CFA):

If this project is not accomplished, substantial groundwater infiltration will continue and is likely to increase over time as the sewer line and manholes continue to deteriorate. Costs for disposal of arsenic contaminated sludge (hazardous waste) may be passed on to the NPS and may even become a limiting factor of how much sewage, if any, the NPS can send to the Gardiner plant.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	1.00
API Rating:	n/a	88.00
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	11.69
IS Score:	(20%)	20.00
CFA Score:	(20%)	1.01
Total Score:	(100%)	72.70

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 12/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 9,327	100
Capital Improvement Work:	\$ 0	0
Total:	\$ 9,327	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 1,738
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 9,327
Future Funding to Complete Project:	\$ 0
Total:	\$ 11,065

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	948
LRF Design Funds Received:	\$	790
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$646,000

Projected: \$646,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 66.80 / 05
Planned Funding FY 2022: \$24,897,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Stabilize Riverbank at High Priority Areas along Towpath Trail and Valley Railway
Project Number: GAOA ID #N097, NPS PMIS #224822
Unit/Facility Name: Cuyahoga Valley National Park
Region/Area/District: Great Lakes
Congressional District: OH10, OH13
State: OH

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40751100	23333	90.00	1.00
40751100	23335	90.00	1.00
40751100	23336	90.00	1.00
40751100	23329	90.00	1.00
40751100	23330	90.00	1.00
40770000	25843	90.00	0.13
40770000	25850	90.00	0.16
40770000	25848	90.00	0.33

Project Description:

This project will stabilize the Cuyahoga riverbank along the Ohio and Erie Canal Towpath Trail, along the Valley Railway, and along a connector trail in Peninsula, from the Towpath Trail to the Cuyahoga Valley Scenic Railroad. Stabilization will utilize natural rock rip rap and bioengineering techniques. This project also includes clearing the banks, placing rip rap, rebuilding banks, planting native vegetation to stabilize the soil, and remediation of the construction site and equipment access routes.

Scope of Benefits (SB):

The eroded areas along the Towpath Trail are negatively impacting the park's most important trail, adversely affecting park visitors. Repair of the eroded riverbank areas, in turn, will have direct positive visitor impacts. An estimated 1.5 million visitors use the trail each year; it is a critical asset that visitors rely on for an enjoyable and safe trail experience. By reducing erosion of the riverbanks and providing increased riparian habitat, water quality and aquatic habitat will also improve.

Investment Strategy (IS):

The eroded areas will be repaired using the sustainable guidelines of the park's Programmatic Environmental Assessment for Riverbank Management. Permanent repair of eroded riverbank areas will reduce annual operation and maintenance costs by reducing the amount of temporary patching and repairs required along the edge of the trail—particularly after major rain events. Making holistic repairs through this project will be less expensive than reacting when more erosion occurs. Once repaired, the trail will no longer be subject to regular damage due to floods at these locations, reducing unscheduled and emergency repairs.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 40 years.

Consequences of Failure to Act (CFA):

Failure to act will allow bank erosion to continue, increase sedimentation of the waterway, and cause loss of riverside vegetation and riparian habitat. Excessive riverbank erosion could result in unsafe conditions, requiring closures. As part of a larger trail network, these closures affect visitors beyond park boundaries. In some areas, if left unchecked, bank erosion could cut through the towpath embankment, allowing the watered section of the Ohio and Erie Canal to drain. Failure to act will allow bank erosion to continue, increase sedimentation, and cause loss of riverside vegetation and riparian habitat.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.43
API Rating:	n/a	90.00
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	10.47
IS Score:	(20%)	14.10
CFA Score:	(20%)	2.23
Total Score:	(100%)	66.80

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 07/2021

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 24,538	99
Capital Improvement Work:	\$ 359	1
Total:	\$ 24,897	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 3,777
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 24,897
Future Funding to Complete Project:	\$ 0
Total:	\$ 28,674

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 1,108
LRF Design Funds Received:	\$ 2,110
Planning Funds Received from Other Fund Sources	\$ 559
Design Funds Received from Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2023/Q1
- Actual: N/A

Project Complete

- Scheduled: FY 2023/Q4
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$447,000

Projected: \$447,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 89.10 / 06
Planned Funding FY 2022: \$36,577,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Stabilize Alcatraz Wharf
Project Number: GAOA ID #N068, NPS PMIS #215726
Unit/Facility Name: Golden Gate National Recreation Area
Region/Area/District: California – Great Basin
Congressional District: CA12
State: CA

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40130400	97524	100.00	0.79

Project Description:

This project will make critical repairs to and seismically strengthen the concrete wharf on Alcatraz Island, a contributing feature of the Alcatraz Island National Historic Landmark District built in 1939. Work will include repair of the historic, steel-cased concrete piles, concrete beams, and concrete slabs. These elements are in fair to poor condition, with varying degrees of damage. Two new seismic resisting elements will be installed to bring the wharf up to a seismic Risk Category III structure. Concrete repairs and seismic improvements will be undertaken in a single phase of construction.

Scope of Benefits (SB):

The Alcatraz wharf has a direct connection to visitor recreation and the preservation of the Alcatraz National Historical Landmark District, an iconic international tourist destination for 1.6 million annual visitors, and a significant feature of the San Francisco Bay Area. This project ensures the wharf will be safe for visitor and staff use. It prevents loss of a contributing historic structure to a national historic landmark site and addresses \$33 million of maintenance/repair work and facility deficiencies.

The project will result in significant operational benefits. In particular, the strengthened pier will allow uninterrupted access to Alcatraz facilities not only for visitors, but also for contractors who will perform numerous future rehabilitation projects on the island. It also ensures protection of park assets and visitor amenities located on the wharf such as restrooms, dock office and store, interpretive programs and exhibits, accessible site furnishings, and the accessible tram.

Investment Strategy (IS):

Stabilization of the island's only point of access ensures that visitors have consistent access to the island, and that future project work can be completed more efficiently. This project builds on more than \$1 million in previous repairs to the concrete wharf completed by the NPS in 2001, in addition to improvements to the gangway and replacement of fender piles by the concessionaire in 2010 and 2018. A single phase of construction will save on contractor mobilization and more effectively use leveraged partner funds that were provided to complete the design.

Operations and maintenance will be equally shared between the NPS and the Concessionaire, which uses the wharf for visitor access. Maintaining Alcatraz's access ensures more than \$60 million in annual NPS revenues from these continued visitor services, much of which funds other park projects.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 40-75 years.

Consequences of Failure to Act (CFA):

Failure to complete this project would have significant impacts to the National Historic Landmark District. Without action, deterioration of the concrete wharf will continue to accelerate which could eventually limit or restrict access to Alcatraz Island. This would impact the recreational access and programming for 1.6 million annual visitors.

Failure to complete this project would also impact other assets along with natural and cultural resources on Alcatraz. The wharf is the single point of access, and its structural issues may eventually limit or restrict staff working on the island to complete other projects. Future work on historic buildings could be halted and buildings could fall into a state of neglect. Regular Alcatraz operations (including emergency operations) would be significantly impacted and constrained. Collapse of the wharf could also cause impacts to the aquatic habitat of the San Francisco Bay. The wharf supports the island's water and wastewater infrastructure, and a diesel fuel line for the island's power generating system. Should the wharf fail, the island's basic infrastructure would suffer a significant interruption in service, and the damaged systems could leak or discharge into the Bay.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.79
API Rating:	n/a	100.00
API/FCI Score:	(40%)	32.00
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	17.10
Total Score:	(100%)	89.10

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Completed 12/2020

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 32,872	90
Capital Improvement Work:	\$ 3,705	10
Total:	\$ 36,577	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 2,850
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 36,577
Future Funding to Complete Project:	\$ 0
Total:	\$ 39,427

Class of Estimate: B

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	750
LRF Design Funds Received:	\$	0
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	2,100

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q4
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$11,000

Projected: \$11,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 71.5 / 07
Planned Funding FY 2022: \$20,112,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate and Improve Old Faithful Water Treatment System and Demolish Abandoned Wastewater Treatment Plant
Project Number: GAOA ID #N094, NPS PMIS #310533
Unit/Facility Name: Yellowstone National Park
Region/Area/District: Upper Colorado Basin
Congressional District: WYAL
State: WY

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35500500	10487	100.00	0.05
40710300	4277	88.00	0.25
40710900	4278	100.00	0.86

Project Description:

This project will address treatment process improvements at the Old Faithful Water Treatment Plant and demolish the abandoned "old" Old Faithful wastewater treatment plant which was replaced by this new facility in 2001. A new addition to the existing treatment building will be constructed to house an arsenic removal system which will include chemical storage tanks, chemical feed pumps, mixers, valves, piping, instrumentation, controls and settling basins. The project will also include replacement of the treatment plant electrical service and the motor control center, which will be sized to accommodate the new equipment. System piping, pumps and other equipment that has reached the end of its service life will be removed and replaced. A temporary treatment system will be installed that will allow for continued production and treatment of water during the construction period. Components of the raw water intake system will also be repaired or replaced and secured from tampering.

The abandoned plant occupies 1.75 acres and includes a 48,000-gallon septic tank, drying beds, clarifier, digester, aeration tanks, underground utilities, and a control building. Most of the demolition work involves concrete removal, both above and below grade. Due to the abandoned plant's proximity to employee housing, fracturing of all concrete structures will be accomplished by use of expanding epoxy, thereby minimizing disturbance to residents in the area. All demolished material will be transported to an approved disposal site outside the park. Some components of the plant may be recycled. Re-grading of the site will follow demolition.

Scope of Benefits (SB):

The Old Faithful water treatment system is the only potable water supply for domestic services as well as fire protection within the Old Faithful developed area. The Old Faithful Water Treatment Plant (OFWTP) has a design capacity of 800,000 gallons per day (GPD).

Water quality studies have shown that the concentration of arsenic fluctuates in the raw water and occasionally reaches levels that are difficult for the current plant to remove. The new automated treatment system will consistently reduce the arsenic content of the potable water to acceptable levels, thereby meeting state and federal water quality requirements and showing responsiveness to an EPA administrative order. Security of the potable water system will be further enhanced as a result of improvements to water intake structures.

The former Old Faithful wastewater treatment plant has been abandoned for approximately 20 years. With failing concrete structures, catwalks, and other abandoned equipment still in place, the site is a safety hazard for employees and residents, as well as an eyesore in the Old Faithful government area. The park will eliminate nearly \$12.8 million of maintenance/repair work with the demolition and site restoration project.

Investment Strategy (IS):

Completion of this project will provide for a safe, secure, and reliable potable water system with enhanced water quality in sufficient capacity for both domestic purposes and fire protection throughout the Old Faithful developed area. This project will automate the arsenic removal process and eliminate the labor hours currently required to closely monitor and adjust the treatment process.

No facility operations and maintenance will be required once the abandoned wastewater plant is removed. Demolition of the plant also opens up a 1.75 acre site for potential future use. Maintenance liability for the abandoned facility will continue to exist until the plant is demolished.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-40 years.

Consequences of Failure to Act (CFA):

The current design of the plant does not allow for the consistent treatment for arsenic removal without continuous monitoring and adjustments by the plant operators, which has led to issuance of an administrative order by the Environmental Protection Agency (EPA) for corrective action by NPS. There are also concerns with the security and condition of the plant's raw water intake structure that need immediate attention.

Not removing the abandoned plant will leave the unsightly abandoned utility system components in place. Ongoing visual impacts, employee and visitor safety hazards, and maintenance concerns would also continue.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.243
API Rating:	n/a	96.00
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	12.22
IS Score:	(20%)	18.68
CFA Score:	(20%)	0.60
Total Score:	(100%)	71.50

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 02/2022 Completed N/A

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 10,455	52
Capital Improvement Work:	\$ 9,657	48
Total:	\$ 20,112	100

Project Funding History (entire project):

History	Dollars in thousands	
Funded to Date:	\$	3,750
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$	20,112
Future Funding to Complete Project:	\$	0
Total:	\$	23,862

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	2,045
LRF Design Funds Received:	\$	1,704
Planning Funds Received from Other Funding Sources:	\$	0
Design Funds Received from Other Funding Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$1,461,000

Projected: \$706,000

Net Change: -\$755,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 66.80 / 08
Planned Funding FY 2022: \$7,125,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Restore Canal Prism and Historic Dry Stone Wall
Project Number: GAOA ID #N073; NPS PMIS #241449
Unit/Facility Name: Chesapeake and Ohio Canal National Historical Park
Region/Area/District: North Atlantic - Appalachian
Congressional District: MD08
State: MD

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40180300	253580	80.00	0.03
40751100	251526	100.00	0.81
40800000	49958	27.00	0.63

Project Description:

This project will restore a portion of the deteriorated canal prism and historic dry stone stacked wall located adjacent to the towpath in the Chesapeake and Ohio Canal National Historical Park. Remediation will consist of restoring the canal prism through the removal of vegetation, silt, and debris; backfilling voids behind the wall and underneath the canal prism; installing an underdrain/liner system to intercept future groundwater; restoring the clay liner to prevent leakage from the canal; stabilizing adjacent tributaries to prevent additional sediment from accumulating within the canal; stabilizing the existing dry stone wall; and restoring the work area.

Scope of Benefits (SB):

Benefits of this project include reducing the risk of failure of the aging dry laid stone wall and potential impairment of the Potomac Interceptor, a major sewer line adjacent to the wall beneath the canal prism. The project will also restore hydraulic connectivity within the canal prism—in December 2015 and January 2016, sinkholes developed adjacent to the towpath in the canal prism forcing the park to dewater this reach to make interim repairs. Completing this project will allow the section to be rewatered and will significantly reduce the amount of water infiltrating the wall foundation, preventing future stability issues. Reestablishing water flow connectivity avoids stagnant water and allows recreational visitors to enjoy the canal in its historic appearance. Water flow also supports the interpretive canal boat operation in Georgetown.

Investment Strategy (IS):

This project will mitigate problems in the project area before they culminate in failure. Repairs will permit the NPS to focus existing operations and maintenance funding on preventative maintenance to sustain the asset in good condition.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 40-50 years.

Consequences of Failure to Act (CFA):

As conditions continue to deteriorate, risks of wall failure will continue to accumulate. Consequences of failure to act include life safety, environmental concerns due to rupture of the 65 million gallon per day wastewater line adjacent to the wall, loss of towpath continuity, and continued lack of hydraulic connectivity along the canal prism.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.06
API Rating:	n/a	69.00
API/FCI Score:	(40%)	24.01
SB Score:	(20%)	14.64
IS Score:	(20%)	20.00
CFA Score:	(20%)	8.15
Total Score:	(100%)	66.80

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Not Required

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 5,577	78
Capital Improvement Work:	\$ 1,548	22
Total:	\$ 7,125	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 706
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 7,125
Future Funding to Complete Project:	\$ 0
Total:	\$ 7,831

Class of Estimate: B

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 0
LRF Design Funds Received:	\$ 0
Planning Funds Received from Other Fund Sources:	\$ 385
Design Funds Received from Other Fund Sources:	\$ 321

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q3
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q2
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$250,000

Projected: \$250,000

Net Change: \$ 0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 90.90 / 09
Planned Funding FY 2022: \$10,128,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Cave Trails: New Entrance to Frozen Niagara
Project Number: GAOA ID #N098; NPS PMIS #239273
Unit/Facility Name: Mammoth Cave National Park
Region/Area/District: North Atlantic - Appalachian
Congressional District: KY02
State: KY

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40751100	75737	100.00	0.63

Project Description:

This project will replace and upgrade deteriorated cave trail assets along Frozen Niagara Route, New Entrance Route, and Drapery Room. Work includes construction of hardened trail surface, installation of curbing along each side of trails, replacement of existing handrails with stainless steel handrails, and reconstruction and upgrade of steps along routes. Project includes hardening cave surface at two gathering areas & installing new benches in gathering areas. Electrical and communication conduits will be installed under the trail surfaces to facilitate existing and future electrical and communications cables.

The trail surfaces along these routes are comprised of a variety of materials including concrete, aggregate, dirt, and fiberglass reinforced plastic and recycled lumber. Along the Frozen Niagara section, there are currently at least 10 separate trail assets creating a patchwork of different materials. All existing trail materials will be replaced to provide a consistent trail surface.

Scope of Benefits (SB):

The trail assets along the cave trail route between the New Entrance and the Frozen Niagara Entrance are deteriorating due to heavy visitor use. Conditions are challenging for workers, and it is difficult to bring in materials. In addition, the lack of rails and other restraints allows park visitors to stray off the toured routes, causing damage to both cultural and natural resources.

Investment Strategy (IS):

The last major investment in cave trails along this tour route occurred during the Civilian Conservation Corps (CCC) period in the 1930s. When this project is completed, the park expects to alleviate most of the existing issues and help to ensure a safe and high-quality visitor experience for decades. This investment will protect park cultural and natural resources and reduce unscheduled and emergency repairs. After project completion, the facilities and systems addressed by this project should not require major recapitalization or modernization for the next 50 years.

Consequences of Failure to Act (CFA):

Without action, the existing trails will continue to deteriorate and visitors will continue journeying off the trail, posing risks to natural and cultural resources.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.63
API Rating:	n/a	100.00
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	10.90
Total Score:	(100%)	90.90

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Completed 10/2020

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 10,128	100
Capital Improvement Work:	\$ 0	0
Total:	\$ 10,128	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 829
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 10,128
Future Funding to Complete Project:	\$ 0
Total:	\$ 10,957

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 0
LRF Design Funds Received:	\$ 0
Planning Funds Received from Other Funding Sources:	\$ 145
Design Funds Received from Other Funding Sources:	\$ 684

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q3
- Actual: N/A

Project Complete

- Scheduled: FY 2023/Q4
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$2,706,000

Projected: \$2,706,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 69.00 / 10
Planned Funding FY 2022: \$25,410,000
Funding Source: Legacy Restoration Fund - Transportation

Project Identification

Project Title: Rehabilitate Park Roads and Road Structures
Project Number: GAOA ID #N063; NPS PMIS #317512
Unit/Facility Name: Great Smoky Mountains National Park
Region/Area/District: South Atlantic - Gulf
Congressional District: TN01, NC11
State: NC, TN

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40660100	60625	70.00	0.63
40660100	60627	70.00	0.70
40660100	59874	81.00	0.93
40660100	103530	70.00	0.08
40660100	60622	70.00	0.63
40660100	103536	73.00	0.49
40660100	60626	70.00	0.70
40660100	103538	62.00	0.08
40660100	103534	73.00	0.93
40660100	103532	73.00	0.08
40760100	58125	88.00	0.69
40760100	57821	71.00	0.50
40760100	57758	64.00	0.31
40760100	55726	100.00	0.18
40760100	57754	77.00	0.21
40760100	64185	88.00	0.08
40760100	57688	70.00	0.62
40760500	114547	100.00	0.19
40760500	60868	88.00	0.06
40760500	60800	100.00	0.02
40760500	62004	70.00	0.10

Project Description:

This project will implement pavement preservation treatments and install pavement markings on Heintooga Ridge Road and Balsam Mountain Campground Road. Lakeview Drive East will also be repaved.

The Noland Creek Bridge will have its deck replaced and its bearings cleaned and painted. Work will also repair erosion at abutments, replace expansion joints, and repoint stone masonry wingwalls.

A portion of Newfound Gap Road will also be rehabilitated. The work includes repairing and rehabilitating guard walls, removing and resetting stone curb, replacing and repairing drainage structures. Drainage will be improved by stabilizing and reestablishing roadside turf ditches, and by overlaying and reconstructing asphalt and stone paved ditches. Additional work includes stabilizing and reseeding road shoulders, installing pavement markings, and replacing road signs.

Scope of Benefits (SB):

With annual visitation just over 12 million, many of the park visitors are navigating unfamiliar roads. Visitor experiences are enhanced by safe, well-marked, and smooth roads and bridges. Roads with good conditions mean that popular destinations are easier to access. Stabilization of road shoulders and edge of pavement will help reduce accidents and damage to roadside vegetation.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-40 years.

Investment Strategy (IS):

While the project addresses significant backlogged maintenance, it also substantially reduces corrective maintenance by eliminating potholes, cracks, and dips from settling pavement. Completing this project now will arrest further degradation of the infrastructure and reduce the need for more expensive road rehabilitation and bridge rehabilitation or replacement in the future. This project will bring the road and road features into good condition.

Consequences of Failure to Act (CFA):

Not implementing this work leaves these transportation assets on a "run to failure" course that will ultimately result in more expensive project investments in the future. Uneven road surfaces due to deteriorating pavement mean that visitors will continue to face safety risks of potholes, unstable shoulders, and poor roadway drainage.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.22
API Rating:	n/a	77.52
API/FCI Score:	(40%)	22.71
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	6.29
Total Score:	(100%)	69.00

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 10/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 25,410	100
Capital Improvement Work:	\$ 0	0
Total:	\$ 25,410	100

Project Funding History (entire project):

History	Dollars in thousands	
Funded to Date:	\$	4,095
FY 2022 Legacy Restoration Fund (this PDS):	\$	25,410
Future Funding to Complete Project:	\$	0
Total:	\$	29,505

Class of Estimate: B

Estimate Escalated to FY 22/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	2,520
LRF Design Funds Received:	\$	1,575
Planning Funds Received from Other Funding Sources:	\$	0
Design Funds Received from Other Funding Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2023/Q1
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q3
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$497,000

Projected: \$497,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 83.20 / 11
Planned Funding FY 2022: \$32,834,000
Funding Source: Legacy Restoration Fund - Transportation

Project Identification

Project Title: Rehabilitate Sections of Blue Ridge Parkway in Virginia
GAOA ID #N062; NPS PMIS #256595
Unit/Facility Name: Blue Ridge Parkway
Region/Area/District: South Atlantic - Gulf
Congressional District: VA06, VA05
State: VA

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40660100	47742	93.00	0.33
40660100	47814	93.00	0.61
40660100	47816	93.00	0.45
40660100	87420	93.00	0.48
40660100	47740	93.00	0.32
40660100	47810	93.00	0.61
40660100	47813	93.00	0.61
40660100	47812	93.00	0.61
40760100	47775	90.00	0.35
40760100	226389	100.00	0.26
40760100	47549	100.00	0.78
40760100	47550	100.00	0.42
40760100	226391	100.00	0.26

Project Description:

This project will rehabilitate and resurface the Blue Ridge Parkway sections 1L and 1M in Virginia. The primary objective of this project is to improve the condition and extend the life of the Blue Ridge Parkway mainline including slope stabilization along road segments in Virginia. Rehabilitation work would be comprised of resurfacing, restoration, and rehabilitation, as well as edge erosion rehabilitation, pavement marking, crack sealing, and light pavement patching. The project also includes signage and pavement markings improvements for sight and distance aimed at enhancing safety (MUTCD standard), installation of geogrid pavers to mitigate shoulder rutting and pavement edge erosion, shoulder stabilization with aggregate topsoil and turf establishment, stone curb removal and resetting, asphalt sidewalk reconstruction at overlook parking areas, guardrail and stone guardwall repair and reconstruction, and inspecting and evaluating culverts, headwalls, inlets, ditches, and outfalls for needed cleaning, reconditioning and replacement.

Scope of Benefits (SB):

This project will reconstruct failing features associated with two parkway segments in Virginia. The poor road conditions along the project segments contribute to an increased possibility for crashes and vehicle damage. Rehabilitating the mainline roadway and associated overlooks and parking area features will allow for continued safe enjoyment of the park's primary visitor recreational feature. The parkway receives approximately 15 million visitors per year. These parkway segments are high priority assets.

Investment Strategy (IS):

This project will address approximately \$33 million of maintenance/repair work on several mission critical assets. The current average pavement condition rating (PCR) for the project area is rated as fair and will continue to deteriorate. With the completion of this project by 2024, the PCR will be rated as excellent. Following project completion, the NPS will initiate properly scheduled pavement management regimes (e.g., periodic preventative maintenance) to maintain the condition of the road and extend its life.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-40 years.

Consequences of Failure to Act (CFA):

Failure to complete this project will result in further deterioration of the pavement condition and associated roadway features. This will lead to loss of services, continued and increased risk to public and employee health and safety from road accidents, continued damage to public and private property, as well as increased damage to roadside natural resources.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.26
API Rating:	n/a	94.92
API/FCI Score:	(40%)	39.22
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	3.98
Total Score:	(100%)	83.20

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 12/2021

Project Costs and Status**Project Cost Estimate (this PDS):**

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 32,834	100
Capital Improvement Work:	\$ 0	0
Total:	\$ 32,834	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 6,899
FY 2022 Legacy Restoration Fund - (this PDS):	\$ 32,834
Future Funding to Complete Project:	\$ 0
Total:	\$ 39,733

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	3,429
LRF Design Funds Received:	\$	3,470
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2023/Q1
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q2
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$913,000

Projected: \$913,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 69.50 / 12
Planned Funding FY 2022: \$30,912,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Parkwide Water and Wastewater Systems
Project Number: GAOA ID #N076, PDS PMIS #290451
Unit/Facility Name: Everglades National Park
Region/Area/District: South Atlantic - Gulf
Congressional District: FL26
State: FL

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35500400	67252	100.00	0.86
35500500	67255	65.00	0.50
40710300	77921	65.00	0.44
40710400	79281	40.00	1.00
40710700	81110	88.00	0.35
40710800	81063	88.00	0.35
40710900	100629	71.00	0.85
40710900	100348	80.00	0.98
40710900	100370	88.00	0.98
40710900	87114	63.00	0.89

Project Description:

This project will replace the potable water distribution and wastewater collection systems in the Flamingo District; the Pine Island District; the Shark Valley District; the Loop Road District including the Tamiami Ranger Station; and the Trail Center housing area. Work includes rehabilitating the reverse osmosis potable water treatment plant in Flamingo and replacing the wastewater treatment plants in the Flamingo and Pine Island districts—including new, hurricane rated, climate-controlled structures to ensure they are protected from storms. Other work includes replacing potable water distribution lines and wastewater collection lines with new piping, repairing and replacing potable water well houses, sewage lift stations, septic tanks, wet wells, manholes, water/sewer meters, pumps, and associated systems. All of the assets upgraded through this project are necessary for the distribution of potable water, as well as the collection and treatment of wastewater in Everglades National Park.

Scope of Benefits (SB):

Everglades National Park welcomes one million visitors annually. Safe drinking water and wastewater treatment is one of the most basic provisions supporting visitor services and employee efforts. The systems also support employees at their workplaces and employee housing. This project will mitigate health and safety hazards from wastewater systems and piping networks that are well beyond their lifecycle, bringing all systems up to current code requirements.

The potable water systems are also needed for fire suppression systems and fire hydrants, including protection of historic structures. Any disruption in the availability of the water supply or wastewater service also directly affects park campgrounds and concession-operated lodging, impacting up to 39,000 visitors who stay overnight in the park during the high visitation season.

Replacement of this infrastructure will include hurricane rated buildings and equipment, elevated above storm surge levels of 15 feet, ensuring the systems are more resilient to severe weather events.

Investment Strategy (IS):

This project addresses deficiencies in the water and wastewater infrastructure that supports visitors, recreational services, and the protection of primary park resources. Various components of these utility systems have reached the end of their lifecycle, resulting in increasingly frequent and expensive corrective maintenance, complicated by the fact that replacement parts are becoming difficult to find. Following project completion, the park will be able to divert resources currently used for corrective maintenance to other priorities, including preventative maintenance work to keep the new systems in acceptable condition. This project directly supports the park's concessions program, from which the park receives substantial franchise fees.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-50 years.

Consequences of Failure to Act (CFA):

Failure to complete this project would have direct impacts to both public/employee health & safety and natural/cultural resources. Due to their deteriorated state, current wastewater systems and piping are at risk of periodic failure, often leading to sewage spills. Uncorrected, wastewater collection systems will be at high risk of failure, while lift stations and vaults will continue to deteriorate. If left unchecked, these systems will eventually have to be taken out of service and closed to both public and staff. Existing treatment plants and lift stations will continue to be inoperable during increasingly frequent tropical storms and associated storm surges. Natural resources will be damaged due to erosion and contamination from leaking water and wastewater systems. In some instances, the park will lose the ability to support fire suppression, potentially resulting in extensive damage to the park's cultural resources and essential non-historic facilities.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.49
API Rating:	n/a	74.80
API/FCI Score:	(40%)	39.52
SB Score:	(20%)	3.05
IS Score:	(20%)	18.04
CFA Score:	(20%)	8.89
Total Score:	(100%)	69.50

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Scheduled 05/2022

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 30,194	98
Capital Improvement Work:	\$ 717	2
Total:	\$ 30,912	100

Project Funding History (entire project):

History	Dollars in thousands	
Funded to Date:	\$	5,764
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$	30,912
Future Funding to Complete Project:	\$	0
Total:	\$	36,676

Class of Estimate: C

Estimate Escalated to FY 22/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	3,144
LRF Design Funds Received:	\$	2,620
Planning Funds Received from Other Funding Sources:	\$	0
Design Funds Received from Other Funding Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$677,000
Projected: \$675,000
Net Change: -\$2,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 66.3 / 13
Planned Funding FY 2022: \$22,969,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Replace Morefield and Wetherill Water Lines
Project Number: GAOA ID #N075, NPS PMIS #317500
Unit/Facility Name: Mesa Verde National Park
Region/Area/District: Upper Colorado Basin
Congressional District: CO03
State: CO

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40710400	45720	65	0.15
40710400	48020	65	0.69
40760100	45586	77	0.20
40760100	48027	62	0.09

Project Description:

This project will replace the water line serving the Morefield housing area, campground, and concession operations. It will also replace the water line serving the Wetherill Mesa and Badger House Community comfort station. New lines, valves, valve vaults, air releases, and manholes will be installed using a mixture of open trench and boring methods to reduce the project's impacts on ground surface and existing facilities. In areas where excavation is required, the project will restore the ground surface or facility, including repaving asphalt. Multiple sections of piping have been previously replaced to address leaks. In order to reduce costs, these sections will be left in place and connected to the new piping. Work will also install a new precast box culvert with increased sized to improve clearing of debris. New valve vaults will allow park staff to operate valves without entering confined spaces.

Scope of Benefits (SB):

The Morefield area serves all campers at Mesa Verde National Park (MEVE), seasonal and permanent park residents, and a large concessions operation.

The Wetherill Mesa is a critical component in providing water for visitor and employee use at Chapin Mesa—particularly in the Headquarters and Mesa Top Loops area. The new water system will also serve structural fire and wildland fire protection infrastructure.

Investment Strategy (IS):

The Morefield domestic waterline replacement project includes a water supply pipe that operates under high-pressure up steep grades to fill the Morefield storage tank. The mixture of pipe materials in the existing line results in the system's difficulty in handling the pressure without causing leaks or failures. Replacement of this pipe system with pipe materials compatible for the operational pressures is a proactive approach to addressing the aging, failing supply pipe.

The existing waterline that serves Wetherill Mesa is the original pipeline installed during the Mission 66 development of Wetherill Mesa and the frequency of leaks is increasing as this piping continues to deteriorate and

fail. Increased visitor use of Wetherill Mesa requires replacing aged and failing water service pipe to the visitor contact station, concession facility, and the public comfort stations.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-40 years.

Consequences of Failure to Act (CFA):

Failure to act will result in the continued deterioration of the existing systems, with leaks, water loss, and degraded service impacting both visitors and staff. Park maintenance staff will continue to respond to unplanned corrective maintenance needs which draws resources away from other park priorities. The park cannot rely on meeting its structural and wildland fire protection needs with the limitations of the current system.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.93
API Rating:	n/a	65.00
API/FCI Score:	(40%)	15.80
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	10.50
Total Score:	(100%)	66.30

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 02/2022 Completed N/A

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 22,426	98
Capital Improvement Work:	\$ 544	2
Total:	\$ 22,969	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 4,283
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 22,969
Future Funding to Complete Project:	\$ 0
Total:	\$ 27,252

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 2,336
LRF Design Funds Received:	\$ 1,947
Planning Funds Received from Other Fund Sources:	\$ 0
Design Funds Received from Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q4
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$267,000

Projected: \$267,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 72.70 / 14
Planned Funding FY 2022: \$128,674,000
Funding Source: Legacy Restoration Fund - Transportation

Project Identification

Project Title: Rehabilitate Sections of the Colonial Parkway
Project Number: GAOA #N074, NPS PMIS #317459
Unit/Facility Name: Colonial National Historical Park
Region/Area/District: North Atlantic - Appalachian
Congressional District: VA01, VA02
State: VA

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40660100	56260	79.00	0.07
40660100	56258	79.00	0.60
40660100	56259	79.00	0.06
40760100	99197	45.00	0.31
40760100	99201	42.00	0.30
40760100	99202	44.00	0.19
40760100	49952	100.00	0.36
40760100	99203	32.00	0.30
40760100	99196	45.00	0.33
40760100	102867	44.00	1.00
40760100	99199	42.00	0.70
40760100	102864	44.00	1.00
40760100	99204	32.00	0.29
40760100	99200	42.00	0.34
40760500	51116	87.00	0.09
40760500	51121	87.00	0.08
40760500	51107	87.00	0.19
40760500	49992	100.00	0.29
40760500	49990	100.00	0.04
40760500	51120	87.00	0.13
40760500	51119	87.00	0.15
40760500	49991	100.00	0.34
40760500	49989	100.00	0.25
40760500	110735	100.00	0.06
40761000	51125	100.00	0.13

Project Description:

This project will repair, rehabilitate, and reconstruct approximately 10 miles of the oldest sections of the Colonial Parkway, from Yorktown through Williamsburg, including associated roadway-related components.

Work will include replacing exposed aggregate concrete pavement and exposed aggregate curbs; patching asphalt pavement on access ramps; rehabilitating bridges; rehabilitating the Williamsburg tunnel to include safety upgrades; addressing culverts and historic brick headwalls; reconditioning shoulders and ditches; replacing steel-

backed timber guardrails; installing additional steel-backed timber guardrail; replacing pavement markings; replacing traffic signs; and installing stormwater management systems that incorporate best management practices.

Scope of Benefits (SB):

This project would fund the first major, holistic rehabilitation project since the Parkway's full length was opened for traffic in 1957. It will address serious deficiencies in five roadway segments, bridges, pull-offs, access ramps, drainage structures, road shoulders, signs, and guardrails within those sections, as well as the Williamsburg Tunnel. Original historic fabric and materials will be preserved in place wherever feasible.

The rehabilitated parkway, bridges, and tunnel in these roadway sections will provide safer and more efficient vehicular access for 2 million annual visitors. Approximately 60 percent of the pavement surface in these segments will be replaced. Rehabilitation of the bridges will improve their bridge health index and extend their lifecycle. Rehabilitation to the stormwater drainage systems and improvements achieved by incorporating best management practices will decrease erosional impacts to cultural and natural resources associated with the Chesapeake Bay.

Investment Strategy (IS):

Completion of this project will ensure restoration and protection of the highly visited, heavily traveled, Colonial Parkway. Modernization of this critical infrastructure will provide an extended lifecycle of 40-50 years. The park will incorporate preventative maintenance activities to maintain the improved condition of the roadway, bridges, tunnel, and drainage features.

Consequences of Failure to Act (CFA):

Failure to fund this project will result in the continued degradation of the Parkway and its associated structures, increased visitor safety concerns, and will require a larger investment to correct these deficiencies. The condition of these assets will experience more rapid degradation the longer that the current needs remain unaddressed. Visitor safety will continue to decrease while resource damage will continue to increase. Drivers will continue to endure deteriorating pavement, inadequate guardrails and barriers, poor drainage, poor tunnel lighting, bridge wall spalling and joint failures, inadequate traffic markings, and deteriorating signage.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.33
API Rating:	n/a	71.36
API/FCI Score:	(40%)	39.45
SB Score:	(20%)	17.28
IS Score:	(20%)	15.88
CFA Score:	(20%)	0.09
Total Score:	(100%)	72.70

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Completed 06/2015

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 128,164	100
Capital Improvement Work:	\$ 510	0
Total:	\$ 128,674	100

Project Funding History (entire project):

History	Dollars in thousands	
Funded to Date:	\$	18,236
FY 2022 Legacy Restoration Fund - (this PDS):	\$	128,674
Future Funding to Complete Project:	\$	0
Total:	\$	146,910

Class of Estimate: B-

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	6,376
LRF Design Funds Received:	\$	11,752
Planning Funds Received from Other Fund Sources:	\$	43
Design Funds Received from Other Fund Sources:	\$	65

Major Milestones

Construction Award/Start

- Scheduled: FY 2023/Q1
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$474,000

Projected: \$474,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 67.70 / 15
Planned Funding FY 2022: \$27,352,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate and Repair Structures and Landscapes
Project Number: GAOA ID #N072; NPS PMIS #317529
Unit/Facility Name: Minute Man National Historical Park
Region/Area/District: North Atlantic - Appalachian
Congressional District: MA03, MA05
State: MA

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35100000	64145	70	0.56
35290100	63979	93	0.25
35290800	64211	87	0.48
35290800	64153	93	0.29
35291700	64102	85	0.55
35291700	64231	93	0.34
35291700	64070	12	0.87
35291700	64087	70	0.96
35300200	64084	65	1.00
35300200	64092	23	1.00
35300200	63671	93	0.71
35300200	63971	85	1.00
35300200	64133	83	1.00
35300300	64063	41	1.00
35800500	64085	88	0.21
40750300	65326	80	0.05
40750300	65324	80	0.08
40750300	65331	80	0.03
40750300	241976	80	1.00
40750300	65333	72	0.05
40750300	65328	87	0.06
40750300	65332	87	0.03
40750300	65330	80	0.03
40750300	65327	87	0.47
40750300	63954	80	0.08
40750300	64212	80	0.09
40750300	65329	80	0.10
40751100	65167	65	1.00
40760100	107006	88	0.00
40760100	107001	88	0.00
40760200	63940	93	1.00
40760200	81695	80	0.27
40760800	71755	58	0.07
40760800	116825	51	0.15

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40760800	71765	51	0.07
40760800	71764	58	0.16
40760800	71760	58	0.20
40760800	71761	58	0.22
40760800	71757	58	0.22
40780100	63955	37	1.00
40780100	63997	29	1.00
40780100	63958	48	0.49
40780300	63939	80	0.06
40780300	64276	40	0.69
40780300	63956	80	0.04
40780300	63941	52	0.84
40780300	64234	31	0.69
40780300	63957	80	1.00
40780300	63959	80	0.02
40780300	64058	52	0.37

Project Description:

This project includes rehabilitation of building exteriors, interiors, and systems at fifteen historic structures, including eight witness structures, ten cultural landscapes, a section of the Battle Road Trail, thirteen monuments, and replacement of more than three hundred signs.

Rehabilitation work on witness structures includes the Major John Buttrick House, Elisha Jones House, James Carty Barn, Farwell Jones House, East Quarter School House, George Hall House, Stow Hardy House, Sam Brooks House, Hartwell Tavern, Park Ranger Headquarters at the Rego House, Captain William Smith House, Jacob Whittemore House, Wayside House and Barn, Joshua Brooks House, and the Inferrera House and Garage. Monuments and Plaques will be conserved. Septic systems will be replaced. Cultural landscapes throughout the park will be rehabilitated. Damaged and missing signs will be replaced. Sections of 5.5-mile Battle Road Trail will be repaired from Meriam's Corner to Fiske Hill.

Scope of Benefits (SB):

The combined undertakings in this project will return primary historic structures and landscapes to good condition. Rehabilitated historic buildings may be used for park operations or may be leased. The Battle Road Trail and North Bridge Trail will be rehabilitated. The park's deteriorated and missing signs will be replaced, and 13 monuments will receive conservation treatments. All of this work will be accomplished in time for 2025, which will celebrate the 250th anniversary of "the shot heard round the world" in April 1775, and the USA 250th Anniversary.

Investment Strategy (IS):

Leases will help generate revenue that will be reinvested to maintain those structures. The work associated with this project will also provide the park with revenue to address annualized preventative maintenance and recurring maintenance requirements for each asset, along with project scopes and cost estimates for cyclic maintenance activities beyond the park's capacity for submission for project funding.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-40 years.

Consequences of Failure to Act (CFA):

Not accomplishing the work associated with these proposed actions will severely constrain the park's ability to successfully implement its Strategic Investment Strategy. In addition, the condition of the parks primary resources will remain deteriorated during the USA 250th Anniversary celebrations, negatively impacting the visitor experience.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.18
API Rating:	n/a	69.38
API/FCI Score:	(40%)	27.05
SB Score:	(20%)	16.63
IS Score:	(20%)	20.00
CFA Score:	(20%)	4.02
Total Score:	(100%)	67.70

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 04/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 25,618	94
Capital Improvement Work:	\$ 1,734	6
Total:	\$ 27,352	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 2,370
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 27,352
Future Funding to Complete Project:	\$ 0
Total:	\$ 29,722

Class of Estimate: C+

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 1,185
LRF Design Funds Received:	\$ 1,185
Planning Funds Received from Other Funding Sources:	\$ 0
Design Funds Received from Other Funding Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q4
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$627,000

Projected: \$595,000

Net Change: -\$32,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 82.01 / 16
Planned Funding FY 2022: \$11,621,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Fort Hancock Potable Water and Wastewater System
Project Number: GAOA ID #N077, NPS PMIS #291531
Unit/Facility Name: Gateway National Recreation Area
Region/Area/District: North Atlantic - Appalachian
Congressional District: NJ06
State: NJ

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35500400	83298	82.00	0.79
35500400	21611	82.00	0.01
35500400	28146	82.00	0.04
40710300	88976	65.00	0.26
40710900	83267	69.00	0.20

Project Description:

This project will rehabilitate the failing wastewater systems at Fort Hancock by removing antiquated underground lines, demolishing out-of-service treatment equipment, and rejuvenating overgrown percolation beds. This project will also rehabilitate the potable water distribution systems at Sandy Hook.

Project work includes safety upgrades to the main lift station; elimination of a lift station on US Coast Guard property; removal of three unused secondary clarifiers and the unused denitrification equipment; and restoring proper drainage at the reed basin percolation beds. Rehabilitation of the water distribution system will ensure proper water pressure, flow rates, and fire protection service at Fort Hancock and the Marine Academy of Science and Technology (MAST) campus and allow for additional revenue generating leases at this site.

Scope of Benefits (SB):

The Fort Hancock water distribution piping has been unchanged since the 1950s, and some sections date back to the turn of the 20th century. The system suffers from typical age-related problems such as leakage, high maintenance costs, and poor reliability. Periodic flooding caused by Atlantic storm surges exacerbate the system's existing problems.

Benefits of this project include improving sanitation quality and wastewater system functionality. The project will also provide more efficient and effective wastewater treatment, safety, and electrical code improvements at the Officer's Row lift Station; lower risk of environmental damage due to leaks, overflow, and failure; and will result in the increased protection of park resources. This project will also improve the degree to which NPS owned and managed structures are compliant with Life Safety codes, building codes, and related laws, regulations, and policies.

The replacement system will be properly sized, with adequate capacity to serve current Fort Hancock and MAST campus needs and the increased demands expected with future revenue-generating campus additions, conversions, and reactivations. The new sewer system will function reliably and efficiently well into the future, ensuring that visitor satisfaction levels remain high, and partner/tenant relationships remain strong.

Investment Strategy (IS):

This project affects a high priority mission-dependent asset in the park and will deliver a new utility system that the park is committed to maintain. It also demonstrates a major investment that could result in measurable net savings for the NPS, which strongly supports financial sustainability efforts. The rehabilitated wastewater system will improve operational efficiency while eliminating most of the corrective maintenance that is required to keep the existing wastewater system operational.

Completion of this project supports health and safety through proper park operations and support for visitors, staff, and partners served by the system, and assures the system is in compliance with applicable laws, regulations, and policy.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-50 years.

Consequences of Failure to Act (CFA):

Total system failure becomes more likely with each year of additional system deterioration. Leaving out-of-service equipment at the wastewater treatment plant also continues to place added demands on the maintenance staff. Increasing failures, infiltration, and unscheduled corrective repairs will continue to occur until the system is replaced. Points of failure include piping breaks, tank leakage, and other unforeseen weaknesses throughout the system. The sludge drying and percolation beds will continue to lose function and are likely to overflow at times.

The existing undocumented wastewater collection piping system does not allow for reconfiguration or for adaptation to changing building occupancy. The pipe network is deteriorating, experiencing ground water infiltration, and is far beyond its expected lifecycle. Maintenance staff will be forced to continue mitigating multiple safety hazards at the Officer's Row Lift Station, and the Coast Guard Lift Station will require extra staff time to maintain because it will remain in the USCG secure perimeter.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.24
API Rating:	n/a	76.00
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	18.40
IS Score:	(20%)	20.00
CFA Score:	(20%)	3.61
Total Score:	(100%)	82.01

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 01/2022

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 11,501	99
Capital Improvement Work:	\$ 120	1
Total:	\$ 11,621	100

Project Funding History (entire project):

History	Dollars in thousands	
Funded to Date:	\$	895
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$	11,621
Future Funding to Complete Project:	\$	0
Total:	\$	12,516

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	488
LRF Design Funds Received:	\$	407
Planning Funds Received from Other Funding Sources	\$	0
Design Funds Received from Other Funding Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q3
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$819,000

Projected: \$819,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 69.81 / 17
Planned Funding FY 2022: \$9,563,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Park Wastewater Treatment Facilities
Project Number: GAOA ID #N079, NPS PMIS #317446
Unit/Facility Name: Sequoia and Kings Canyon National Park
Region/Area/District: California – Great Basin
Congressional District: CA23
State: CA

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35500400	237961	52	0.99
40710800	65315	88	0.85
40710800	67584	88	0.61
40760100	73909	53	0.08
40760100	73914	33	0.61

Project Description:

This project, located in the Ash Mountain developed area of Sequoia National Park, will rehabilitate and replace critical components of the wastewater treatment facilities including two pump stations and controls, the associated signage, fencing, access road, and electrical and monitoring systems. It will replace the deteriorated head-works and overflow, replace the chlorination system, and rehabilitate the deteriorated treatment dosing building and deteriorated disposal fields. Replacement of these components is in accordance with typical industry life-cycle replacement standards.

Scope of Benefits (SB):

This project will provide sustainable wastewater treatment capacity for the Ash Mountain Historic District within Sequoia National Park, which serves 1.2 million visitors each year. Most importantly, it will ensure protection of visitor and employee health and safety by ensuring safe and efficient wastewater treatment. The facility serves the park visitors and park employees that utilize the Historic District of Ash Mountain. The Ash Mountain Historic District is the first stop for the park's public transit system for visitors entering the park through the Ash Mountain Entrance Station. The scope of benefit for this project includes continued sewage treatment service for the visitor center, park headquarters, fire management building, warehouse, motor pool shops facility, nursery, recreation hall, and over 40 operations and housing units. This project, which will address maintenance/repair work on high priority assets, will also benefit the park through increased operational efficiencies utilizing new innovative technologies, decreasing operational and maintenance costs. The project will also correct fire and electrical code violations making the treatment plant safer to operate.

Investment Strategy (IS):

This project will significantly decrease the cost and frequency of corrective maintenance at the wastewater treatment facility through replacement of inefficient components that are beyond or at the end of their life cycle. The new, more efficient components include innovative technologies that will make operations more efficient and effective. Correcting code violations will reduce liability for fines associated with current code violations. Financial sustainability will also be achieved by investing in a high-priority asset ensuring this critical infrastructure remains in good condition to support the park's mission.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 40-50 years.

Consequences of Failure to Act (CFA):

Failure to address the backlogged maintenance and code violations ultimately prevents or hinders effective sewage treatment throughout the Historic District of Ash Mountain. As the system continues to degrade, corrective maintenance needs and outages will be more frequent, potentially leading to negative impacts on public's experience and enjoyment. There would also be significant impacts to park operations; the Ash Mountain Historic District is the operational base for 150 permanent and seasonal employees supporting park-wide operations. Safe operations at the treatment facility cannot be sustained as the equipment continues to age and run to failure.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.60
API Rating:	n/a	62.80
API/FCI Score:	(40%)	36.46
SB Score:	(20%)	10.92
IS Score:	(20%)	20.00
CFA Score:	(20%)	2.43
Total Score:	(100%)	69.81

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled N/A Completed 01/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 8,773	92
Capital Improvement Work:	\$ 790	8
Total:	\$ 9,563	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 1,451
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 9,563
Future Funding to Complete Project:	\$ 0
Total:	\$ 11,014

Class of Estimate: B-

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 162
LRF Design Funds Received:	\$ 810
Planning Funds Received from Other Fund Sources:	\$ 159
Design Funds Received from Other Fund Sources:	\$ 319

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$76,000

Projected: \$76,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 78.40 / 18
Planned Funding FY 2022: \$29,089,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Underground Utilities
Project Number: GAOA ID #N080, NPS PMIS #266697
Unit/Facility Name: Bandelier National Monument
Region/Area/District: Upper Colorado Basin
Congressional District: NM03
State: NM

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40710300	5320	50	0.53
40710300	46795	65	0.45
40710900	31480	60	0.87
40710900	31618	64	0.46
40710900	31609	100	0.58
40711100	31543	65	0.87
40711200	46797	65	0.97
40720100	226945	40	0.68

Project Description:

This project will replace the 60+ year old utility distribution and collection systems parkwide to address maintenance/repair work and code deficiencies. Work includes improving underground primary and secondary potable water distribution for required storage and fire flow; improving electrical and natural gas distribution for anticipated loads; and upgrading communication systems to meet current and future demands. An integrated utility corridor will be constructed under roads and existing conduit routes will be reused in order to reduce impacts in sensitive natural and cultural resource areas.

Primary electrical service will be replaced in areas not addressed by a 2017 primary electrical service project. Additional work will rehabilitate existing sewer collection mains, replace all secondary sewer lines, and provide sanitary functionality via lift station to correct and reopen the historic visitor restroom across from Frijoles Creek rendered inoperable due to past fire and flood impact.

Scope of Benefits (SB):

Rehabilitation of the wastewater collection system will eliminate contamination of Frijoles Creek as recommended in the 2007 Water Resources Foundation Report. Replacement of these utilities account for major and measurable contributions to meet established goals and objectives of the Department, Bureau, and Park which include providing a sustainable, safe, and efficient working environment for park staff. The project will address life safety/health and code violations making the Park's developed areas safer for employees and visitors. The project also helps preserve the Bandelier Civilian Conservation Corps National Historic Landmark District through improved fire protection measures. This project will address approximately \$27M of maintenance/repair work.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-50 years.

Investment Strategy (IS):

This project is based on a preliminary engineering analysis and subsequent cost estimate that meets the design and specification requirements of Los Alamos County, the park's utility provider. Replacement of utility lines will have a substantial positive impact to park operations by eliminating the likelihood of system failures. The existing systems require frequent, unscheduled repairs, which have put a strain on park operations and budgets. Completion of this project will ensure the utility systems are more reliable, allowing the park to reduce its spending on back-up power generation, portable restrooms, emergency contracted repair services, and maintenance staff overtime associated with frequent system service interruptions. Once repaired, the systems replaced by this project will no longer need unscheduled or corrective maintenance. Utilizing NPS authority to be reimbursed for utilities furnished to concessioners, partners, and other users of services (54 U.S.C. 101901), the improvements made by this project will help the park recover all costs for utilities provided to non-federal entities. These recovered costs will help offset the operations and maintenance costs of these systems.

Consequences of Failure to Act (CFA):

Failure to address the maintenance/repair work, life safety, health and utility code violations associated with these systems will result in a greatly diminished visitor experience and create an unsafe/unhealthy environment for employees. Delaying rehabilitation of these utility systems will result in continued and recurring outages for visitors and employees and could expose individuals to unnecessary safety risks. Due to the age of these existing utility systems, complete failure could occur; and extended service outages, gas leaks, or water supply contamination may cause extended closures to park facilities. Delaying or not implementing the wastewater collection system rehabilitation effort may similarly result in continued contamination of Frijoles Creek and pose a significant health risk to visitors and employees.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.72
API Rating:	n/a	63.63
API/FCI Score:	(40%)	39.66
SB Score:	(20%)	13.57
IS Score:	(20%)	20.00
CFA Score:	(20%)	5.17
Total Score:	(100%)	78.40

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 02/22 Completed N/A

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 27,174	93
Capital Improvement Work:	\$ 1,915	7
Total:	\$ 29,089	100

Project Funding History (entire project):

History	Dollars in thousands	
Funded to Date:	\$	5,423
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$	29,089
Future Funding to Complete Project:	\$	0
Total:	\$	34,512

Class of Estimate: C

Estimate Escalated to FY 22/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	2,958
LRF Design Funds Received:	\$	2,465
Planning Funds Received from Other Funding Sources:	\$	0
Design Funds Received from Other Funding Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$428,000

Projected: \$353,000

Net Change: - \$75,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 82.30 / 19
Planned Funding FY 2022: \$26,789,000
Funding Source: Legacy Restoration Fund - Transportation

Project Identification

Project Title: Rehabilitate Sections of Blue Ridge Parkway in North Carolina
Project Number: GAOA ID #N067, NPS PMIS #317466
Unit/Facility Name: Blue Ridge Parkway
Region/Area/District: South Atlantic - Gulf
Congressional District: NC10, NC11
State: NC

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40660100	48764	93.00	0.21
40660100	87291	93.00	0.29
40660100	48770	93.00	0.34
40660100	48766	93.00	0.21
40660100	48765	93.00	0.31
40660100	48769	93.00	0.33
40660100	48767	93.00	0.33
40660100	87290	93.00	0.24
40660100	48768	93.00	0.33
40660100	87268	93.00	0.31
40760100	226395	100.00	0.30
40760500	4825	100.00	0.01
40760500	4826	100.00	0.02
40761000	4831	100.00	0.03
40761000	4830	100.00	0.09
40761000	4829	100.00	0.01
40761000	4828	100.00	0.02

Project Description:

This project will rehabilitate and resurface the Blue Ridge Parkway sections 2M and 2N in North Carolina. The primary objective of this project is to improve the condition and extend the life of the Blue Ridge Parkway mainline including slope stabilization along road segments in North Carolina.

Rehabilitation work would be comprised of resurfacing, restoration, and rehabilitation, as well as edge erosion rehabilitation, pavement marking, crack sealing, and light pavement patching. The project also includes signage and pavement markings improvements for sight and distance aimed at enhancing safety (MUTCD standard), installation of geogrid pavers to mitigate shoulder rutting and pavement edge erosion, shoulder stabilization with aggregate topsoil and turf establishment, stone curb removal and resetting, asphalt sidewalk reconstruction at overlook parking areas, guardrail and stone guardwall repair and reconstruction, and inspecting and evaluating culverts, headwalls, inlets, ditches, and outfalls for needed cleaning, reconditioning and replacement.

Scope of Benefits (SB):

This project will reconstruct failing features associated with two parkway segments in North Carolina. The poor road conditions along the project segments contribute to an increased possibility for crashes and vehicle damage.

Rehabilitating the mainline roadway and associated overlooks and parking area features will allow for continued safe enjoyment of the park's primary visitor recreational feature. The parkway receives approximately 15 million visitors per year. These parkway segments are high priority assets.

Investment Strategy (IS):

This project will address approximately \$27M of maintenance/repair work on several mission critical assets. The current average pavement condition rating (PCR) for the project area is rated as fair and will continue to deteriorate. With the completion of this project by 2024, the PCR would be rated as excellent. Following project completion, the NPS will initiate properly scheduled pavement management regimes (e.g., periodic preventative maintenance) to maintain the condition of the road and extend its life.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-40 years.

Consequences of Failure to Act (CFA):

Failure to complete this project will result in further deterioration of the pavement condition and associated roadway features. This will lead to loss of services, continued and increased risk to public and employee health and safety from road accidents, continued damage to public and private property, as well as increased damage to roadside natural resources.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.27
API Rating:	n/a	95.88
API/FCI Score:	(40%)	39.87
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	2.43
Total Score:	(100%)	82.30

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 12/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 26,789	100
Capital Improvement Work:	\$ 0	0
Total:	\$ 26,789	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 4,441
FY 2022 Legacy Restoration (this PDS):	\$ 26,789
Future Funding to Complete Project:	\$ 0
Total:	\$ 31,230

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	2,215
LRF Design Funds Received:	\$	2,214
Planning Funds Received from Other Funding Sources:	\$	4
Design Funds Received from Other Funding Sources:	\$	8

Major Milestones

Construction Award/Start

- Scheduled: FY 2023/Q1
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q2
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$757,000

Projected: \$757,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 74.61 / 20
Planned Funding FY 2022: \$40,456,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Replace Wastewater Plant at South Rim Village
Project Number: GAOA ID #N055; NPS PMIS #257282
Unit/Facility Name: Grand Canyon National Park
Region/Area/District: Lower Colorado Basin
Congressional District: AZ01
State: AZ

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
0	255012	77.00	0.00
35500400	34560	88.00	0.50
40710900	72089	78.00	0.38

Project Description:

This project will replace the South Rim Wastewater Treatment Plant (plant). The existing plant, constructed in the 1970s, services all visitor, resident staff housing, lodging, and support facilities at the Village South Rim of the Grand Canyon.

Maintenance/repair work will be reduced by replacing the control and lab building, headworks, aeration basins, solids digesters, dewatering system, pumps, tertiary treatment, generator, piping systems, and SCADA system. The project will also include upgrading the new control building with modern code compliant HVAC and electrical systems, adding fire alarms and fire suppression systems throughout the facility, construction of an equalization basin, adding a receiving and processing system for vault toilet waste.

The existing plant equipment and processes are outmoded, inefficient, and overloaded. The facility struggles treating current flows and loads to consistently meet Arizona State Department of Environmental Quality (ADEQ) permitted effluent water quality standards. Copper and ammonia levels are repeatedly exceeded during high flow periods.

There are health, safety and environmental concerns due to the lack of fire suppression systems and the existing basins and piping throughout the facility are corroded and continually leak. The continued increase in visitation and the conversion of low-flow fixtures over the last few years has increased wastewater concentration levels, placing additional strain on the current treatment processes, and increasing the bio-solid production. The current bio-solid de-watering and disposal process is time intensive and expensive, due to undersized and inefficient drying bed infrastructure.

In 2018, Arizona Department of Environmental Quality issued a Consent Order for this facility related to bio-solid disposal. The park has made significant operational adjustments that would be relieved with the new facility.

Scope of Benefits (SB):

The Wastewater Treatment Plant treats the wastewater generated by visitors to the South Rim of the Grand Canyon. The wastewater treatment protects the natural environment on the South Rim. The WWTP maintains a healthy environment for visitors and prevents disease.

Investment Strategy (IS):

This project will address \$35M in maintenance/repair work. The modernized wastewater equipment will ensure the plant can efficiently process the peak season wastewater demands. The park currently supports the operation of this facility through cost recovery from parties using the utilities and will continue to recover costs for the new facility.

After project completion the facilities and systems addressed by this project should not require major rehabilitation or replacement for approximately 25-40 years.

Consequences of Failure to Act (CFA):

Replacing the existing facility will eliminate repeated violations of the Arizona State Wastewater Permit and prevent future consent orders. Failure of the wastewater treatment plant could lead to a violation of their discharge permit, which would require the Wastewater Treatment Plant to shut down, closing visitation to the South Rim.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.37
API Rating:	n/a	81.00
API/FCI Score:	(40%)	39.70
SB Score:	(20%)	11.30
IS Score:	(20%)	19.56
CFA Score:	(20%)	4.05
Total Score:	(100%)	74.61

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Scheduled 11/2021

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 34,929	86
Capital Improvement Work:	\$ 5,528	14
Total:	\$ 40,456	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 7,543
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 40,456
Future Funding to Complete Project:	\$ 0
Total:	\$ 47,999

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	4,114
LRF Design Funds Received:	\$	3,429
Planning Funds Received:	\$	0
Design Funds Received:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q2
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$146,000
Projected: \$144,000
Net Change: -\$2,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 80.30 / 21
Planned Funding FY 2022: \$25,077,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Failing Upper Plaza at Perry's Victory & International Peace Memorial
Project Number: GAOA ID #N078, NPS PMIS #272171
Unit/Facility Name: Perry's Victory and International Peace Memorial
Region/Area/District: Great Lakes
Congressional District: OH09
State: OH

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35800800	71125	100.00	0.07
40660100	73455	35.00	1.00

Project Description:

This project will restore the structure supporting the upper plaza and the associated waterproofing membrane. Interior spaces below the upper plaza will be modified to meet current needs and improve functionality. Restrooms and exterior plaza spaces will be made compliant with accessibility standards. Building systems will be installed to meet current demands and address condensation issues below the upper plaza and inside the tower. The upper plaza finishes will be restored by reusing historic materials. Perimeter walls below the upper plaza will be repaired and waterproofed, while a portion of the historic fabric will be maintained. Surface finishes at the lower plaza will be removed and reset to address tripping hazards. Accessible ramps will be installed for access to the lower and upper plazas, and the surrounding parking area and sidewalks will be altered to improve visitor access to the memorial. Portions of the memorial will receive a fire suppression system and security measures to improve safety.

Scope of Benefits (SB):

This project addresses maintenance/repair work while improving facility conditions and safety around the monument, plaza areas, and other surrounding landscapes. Additional improvements will ensure that facilities, especially restrooms and plaza areas, meet the Architectural Barriers Act Accessibility Standards (ABAAS). This project will also improve life safety and security systems, making the park's developed areas safer for employees and visitors.

Investment Strategy (IS):

The NPS has previously made significant investments to address deficiencies at the monument and grounds. Those investments included repair and sealing of the monument, column, and observation deck. This project builds upon those previous investments by replacing the upper plaza to prevent further water infiltration, reducing future corrective maintenance needs, and allowing more of the visiting public to have complete access to the site.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-40 years.

Consequences of Failure to Act (CFA):

If the existing structure below the upper plaza is not restored, the historic fabric and suitability of the upper plaza will continue to significantly degrade, and permanent loss of additional historic aspects and functionality will result, including the possibility that the tower will no longer be accessible to visitors. Further deterioration and a

lack of adequate facility functionality will occur if maintenance/repair work is not addressed and system upgrades are not implemented. Condensation issues within the tower and below the upper plaza would also not be addressed, resulting in a less desirable experience for visitors and compromising the structure and building systems. Significant portions of the memorial will remain non-accessible to visitors with disabilities. Visitors, employees, and the historic structures themselves will be at risk if new portions of the fire suppression and security systems are not installed.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.07
API Rating:	n/a	67.50
API/FCI Score:	(40%)	39.06
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	1.24
Total Score:	(100%)	80.30

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 12/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 21,457	86
Capital Improvement Work:	\$ 3,620	14
Total:	\$ 25,077	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 4,675
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 25,077
Future Funding to Complete Project:	\$ 0
Total:	\$ 29,752

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 2,550
LRF Design Funds Received:	\$ 2,125
Planning Funds Received from Other Fund Sources:	\$ 0
Design Funds Received from Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q3
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$190,000

Projected: \$173,000

Net Change: -\$17,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 80.70 / 22
Planned Funding FY 2022: \$7,673,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Floyd Bennett Field Wastewater Collection System at Jamaica Bay
Project Number: GAOA ID #N066, NPS PMIS #291651
Unit/Facility Name: Gateway National Recreation Area
Region/Area/District: North Atlantic - Appalachian
Congressional District: NY08
State: NY

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40710900	77589	77.00	1.00

Project Description:

This project will rehabilitate the Floyd Bennett Field (FBF) sanitary sewer system at the Jamaica Bay unit of Gateway National Recreation Area. The scope of the project includes elimination of two lift stations and replacement or new construction of several other lift stations. The existing gravity sewer piping will be replaced as needed and will be cleaned, grouted, and relined where feasible and financially prudent. The active portions of the wastewater collection systems (piping, manholes, lift stations) are beyond their expected lifecycle, require an increasing amount of repair, and need to be replaced. The 1,000-acre FBF, a former metropolitan airport and naval air station, now supports multiple NPS educational and recreation opportunities, and several tenant and partner sites.

Scope of Benefits (SB):

This project will improve the degree to which NPS structures and systems are compliant with life safety codes and other mandates. The wastewater collection system modifications will reduce the number of lift stations to be maintained and equip the master lift station with the adequate pumping capacity to handle all campus waste and discharge it through the force main to the Rockaway municipal wastewater system outside of the park. Rehabilitation or replacement of lift stations with modern technology will reduce the frequency of corrective maintenance and outages. Manhole maintenance and pipe re-lining will restore the condition of the wastewater collection system and ensure reliable service to the buildings and facilities at the FBF campus. Visitors and partner agencies will be able to enjoy all of the FBF facilities with little or no interruptions due to wastewater system failures.

Investment Strategy (IS):

The project supports financial sustainability efforts, by eliminating the continued need for frequent and expensive corrective repairs. Completion of this project supports the health and safety of park operations, and supports visitors, staff, and partners served by the system.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 40-50 years.

Consequences of Failure to Act (CFA):

The existing wastewater collection piping systems and major components of the sewage lift stations are far beyond their expected lifecycle. Total system failure becomes more likely as the system components continue to degrade

over time. Increasing equipment failures, groundwater infiltration, and the need for emergency repairs will continue to occur until the system is rehabilitated. The older lift stations, manholes, and piping will also require increasingly frequent corrective repairs, resulting in further service outages. Working conditions and employee safety at NPS sites will not be improved and nearby resources will not be protected from wastewater contamination.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	1.00
API Rating:	n/a	77.00
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	0.70
Total Score:	(100%)	80.70

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Scheduled 02/2022

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 7,673	100
Capital Improvement Work:	\$ 0	0
Total:	\$ 7,673	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 1,431
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 7,673
Future Funding to Complete Project:	\$ 0
Total:	\$ 9,104

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 780
LRF Design Funds Received:	\$ 650
Planning Funds Received from Other Funding Sources:	\$ 0
Design Funds Received from Other Funding Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q3
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q3
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$571,000

Projected: \$571,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 70.7 / 23
Planned Funding FY 2022: \$22,630,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate or Replace the Chisos Mountains Lodge
Project Number: GAOA ID #N093, NPS PMIS #259631
Unit/Facility Name: Big Bend National Park
Region/Area/District: Arkansas – Rio Grande – Texas - Gulf
Congressional District: TX23
State: TX

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35290800	82851	67	0.59
35291000	83812	71	0.83
35291700	83832	35	0.51
35291700	83841	35	0.27
35291700	83842	35	0.14
35291700	83838	35	0.27
35291700	83830	35	0.44
35291700	83839	35	0.27
35291800	83821	55	0.91
40660100	54631	71	0.96
40660100	54629	78	1.00
40660100	54634	78	0.72
40750300	247041	65	0.81
40760100	53233	88	0.19

Project Description:

This project will rehabilitate or replace the Chisos Mountains Lodge and update the supporting pedestrian and vehicle circulation throughout the hotel complex. The Lodge currently includes a 72-room motel complex that was built as part of the Mission 66 program and is eligible to be listed on the National Register of Historic Places. It serves as the only restaurant, lounge, lodge registration, and gift shop in the 800,000 acre National Park. This project will also address maintenance/repair work for the motel units and rehabilitate or replace the existing Visitor Center and Camp Store.

Scope of Benefits (SB):

After more than 50 years of service, the lodge's foundation is differentially settling and shifting because it was constructed on unmitigated bentonite clay soils. The foundation's movement due to the expansive soils is compromising the building's structural integrity and occupant safety. The building is now in critical condition and is not serviceable due to this structural instability and related public health concerns. Additionally, portions of the facility are not compliant with the Architectural Barriers Act Accessibility Standards (ABAAS) and the building's HVAC systems, when combined with the building envelope failures and deficiencies, are not energy efficient.

The building's foundation and structural elements continue to shift and crack, creating hazardous deterioration of other critical systems. A 2018 structural investigation report revealed significant cracks in walls, ceilings, and floors, some of which have been patched or caulked in previous years but continue to open up. Roofing cracks

cause leaks in the kitchen during rain events, and movement is extreme enough in some cases that the roofing support connections are destabilized. A 2019 public health assessment identified significant cracks in the kitchen walls and concerns about sewer and drainage lines that may be impacted by this movement. The ceiling in the food preparation area is in a partial state of collapse and is temporarily braced in numerous locations. Water infiltration causes mold issues, and cracks in walls and floors create rodent and pest concerns.

Investment Strategy (IS):

Completing this project will result in a safe, stable, code-compliant structure that contributes to the visitor experience in this area of the park. The building cannot be fully used or leased in its current condition, severely limiting the park's ability to provide visitor services or recover operations and maintenance costs. After this project is completed, the park will have the ability to work with a concessioner to provide visitor services in this remote national park.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-40 years.

Consequences of Failure to Act (CFA):

Failure to complete this project will lead to further differential settling and shifting of the foundation. Continued deterioration of this facility will cause worsening safety issues to persist, will exacerbate immediate public health concerns, and will fail to improve accessibility compliance and energy efficiency. The deteriorating state of the current facility is resulting in a continued interruption to visitor use and amenities. Failure to proceed with this project will make a new concessions contract infeasible.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.39
API Rating:	n/a	55.93
API/FCI Score:	(40%)	31.82
SB Score:	(20%)	15.73
IS Score:	(20%)	20.00
CFA Score:	(20%)	3.15
Total Score:	(100%)	70.70

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 03/2021 Completed N/A

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 15,936	70
Capital Improvement Work:	\$ 6,694	30
Total:	\$ 22,630	100

Project Funding History (entire project):

History	Dollars in thousands	
Funded to Date:	\$	4,219
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$	22,630
Future Funding to Complete Project:	\$	0
Total:	\$	26,849

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	2,301
LRF Design Funds Received:	\$	1,918
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q3
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$88,000

Projected: \$84,000

Net Change: -\$4,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 86.50 / 24
Planned Funding FY 2022: \$9,119,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Texas White House
Project Number: GAOA ID #N082, NPS PMIS #290111
Unit/Facility Name: Lyndon B. Johnson National Historical Park
Region/Area/District: Arkansas – Rio Grande – Texas - Gulf
Congressional District: TX21
State: TX

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35290100	14799	87.00	0.95
35800800	14877	77.00	1.00
40660100	54365	88.00	1.00
40710900	77148	42.00	0.00
40710900	94935	78.00	0.27
40720100	236620	30.00	0.00
40750300	236624	93.00	0.16

Project Description:

This project will address maintenance/repair work, structural concerns, code deficiencies, and deterioration of historic features in the Texas White House, nearby communications buildings, and the surrounding site. The work will ensure the long-term integrity of a critical park resource and allow it to be reopened to the public.

Work includes repairing building envelopes; replacing outdated electrical, mechanical, HVAC, and alarm systems; and stabilizing the foundation. Structural deficiencies will be addressed throughout the facilities, and hazardous materials will be abated. Aged and deteriorated site utility systems and site drainage will also be replaced and rehabilitated to sustain the expected visitor loads and to withstand extreme weather events.

The communications buildings will be repurposed to provide much needed restroom facilities and expand visitor amenities. The project also includes accessibility and fire egress improvements throughout the site.

Scope of Benefits (SB):

The Texas White House—where LBJ spent 25% of his presidency—is a fundamental park resource and the centerpiece of the LBJ Ranch District. The house hosted 80,000+ visitors/year before closing due to structural and environmental concerns in 2018. The Texas White House is a primary destination for the park's visitors. The park's visitor experience has been heavily impacted by the structure's closure.

This project aligns with the stated park purpose, which includes protecting the historic structure and cultural landscapes at the Park. Improvements to the building's critical systems will ensure the historic fabric of the structure is protected from the Hill Country environment; modern, integrated monitoring and alarm systems will ensure that park staff can rapidly respond to incidents. The project will also significantly improve accessibility for visitors and employees throughout the Texas White House and surrounding site.

Investment Strategy (IS):

Completing this project will restore the Texas White House to good condition, significantly reducing the frequency and expense of corrective maintenance projects and allowing park staff to focus primarily on routine and preventative maintenance. The entire home has been closed to the public since 2018 due to mold and structural concerns. Historic structures will be rehabilitated using modern construction methods in conformance with historic preservation standards, with the goal of streamlining operations, maintenance, and management.

After project completion, this project should not require major rehabilitation or replacement for the next 15-20 years for the HVAC system, 40 years for the foundation and building envelope, and 50 years for the electrical system.

Consequences of Failure to Act (CFA):

Without action, the structure will remain closed to visitors due to structural concerns. Additionally, failure to address the maintenance/repair work, HVAC issues, life safety concerns, and health and accessibility code violations will result in a greatly diminished experience for park visitors and create an unsafe/unhealthy environment for employees and visitors. If the existing structures are not properly stabilized and restored, the historic fabric and suitability of the facilities will continue to significantly degrade, and permanent loss of historic fabric and functionality could result. Failure to replace or rehabilitate site utilities will result in the park's amenities being insufficient to handle visitor loads; failure to address drainage issues will leave the site less resilient against extreme weather events.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.91
API Rating:	n/a	70.71
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	6.50
Total Score:	(100%)	86.50

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 02/2022

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair:	\$ 7,702	84
Capital Improvement Work:	\$ 1,417	16
Total:	\$ 9,119	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 1,700
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 9,119
Future Funding to Complete Project:	\$ 0
Total:	\$ 10,819

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	927
LRF Design Funds Received:	\$	773
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q3
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$149,000
Projected: \$145,000
Net Change: -\$5,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 55.00 / 25
Planned Funding FY 2022: \$15,726,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Replace Swiftcurrent Water Distribution System
Project Number: GAOA ID #N090, NPS PMIS #307606
Unit/Facility Name: Glacier National Park
Region/Area/District: Missouri Basin
Congressional District: MTAL
State: MT

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35500500	7941	55.00	0.14
40710300	6863	65.00	1.00
40760100	103833	77.00	1.00

Project Description:

This project will replace the water system at Swiftcurrent. The effort will include removal and replacement of the well pump and main water line from the existing well. A new well will be installed to serve as a second water source and will be connected with a new water main line. The existing water storage tank will be rehabilitated, and a new water storage tank will be constructed to ensure the system has adequate fire suppression capacity. A dedicated storage tank supply and distribution main will be added to the system, supporting water systems that serve concessionaires, campgrounds, administrative facilities, and picnic areas.

A new telemetry system and new meters will be installed to improve water system monitoring, and the chlorination building will be rehabilitated. To further improve system reliability during power outages, a new generator building will be constructed and a new emergency generator with a new automatic transfer switch will be installed.

Where asbestos cement pipe is found or if existing underground pipe conflicts with the design of the new system it will be demolished, and disturbed pavement and natural landscape areas will be restored. This includes the access road to the storage tanks.

Scope of Benefits (SB):

The existing water system in Swiftcurrent was installed over 50 years ago and is well beyond estimated design life. These underground pipe systems supply various concession properties, a campground, multiple residences, and a picnic area, serving over 100,000 visitors per year. Concessions properties include a motel, rental cabins, a restaurant, and a general store. This project will address existing concerns related to this aged and failing system, making the Park's developed areas safer for employees and visitors.

Equipment is aged and failing. Existing leaks are reported, requiring maintenance staff to spend limited time and funding, chasing leaks from location to location, including the loss of approximately 20,000-30,000 gallons of water per day, with unknown cause. The current systems were installed with single points of failure, leading to risks of total service interruptions if major or critical components fail.

Installation of the new well and storage tank will ensure the system can draw and store the necessary capacity of water needed for fire suppression. New piping will provide clean and reliable domestic water to the area.

Investment Strategy (IS):

This project will improve the safety of this potable water system, eliminate waste, save money, provide for structural fire protection, ensure a reliable water supply, and extend the lifespan of the system. Replacing the water system will ensure operations are more sustainable and efficient, significantly reducing the cost and frequency of corrective maintenance activities necessary, and allowing the park to focus on regular, preventative maintenance. Utilizing NPS authority to be reimbursed for utilities furnished to concessioners, partners, and other users of services (54 U.S.C. 101901), the improvements made by this project will help the park recover all costs for utilities provided to non-federal entities.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-40 years.

Consequences of Failure to Act (CFA):

Allowing the existing water system at Swiftcurrent to remain in place presents concerns for the health and safety of both staff and visitors. The system will continue to deteriorate and ultimately fail. Without replacement, the system will continue to lose 20,000 to 30,000 gallons of water per day. The ability to address structural or wildland fire will continue to be questionable without an adequate supply of water and distribution systems. Revenue will continue to be lost due to the inability to reliably meter water usage in concession areas.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	1.00
API Rating:	n/a	65.67
API/FCI Score:	(40%)	31.76
SB Score:	(20%)	8.31
IS Score:	(20%)	14.65
CFA Score:	(20%)	0.28
Total Score:	(100%)	55.00

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Scheduled 02/2022 Completed N/A

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 12,292	78
Capital Improvement Work:	\$ 3,434	22
Total:	\$ 15,726	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 2,932
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 15,726
Future Funding to Complete Project:	\$ 0
Total:	\$ 18,658

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Requested:	\$	1,599
LRF Design Funds Requested:	\$	1,333
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$733,000

Projected: \$733,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 72.80 / 26
Planned Funding FY 2022: \$30,812,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Painted Desert Community Complex
Project Number: GAOA ID #N083, NPS PMIS #267538
Unit/Facility Name: Petrified Forest National Park
Region/Area/District: Intermountain
Congressional District: AZ01
State: AZ

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35100000	69124	100	0.81
35100000	69434	100	0.61
35291000	84796	100	0.70
35291500	69431	92	0.33
35300300	69454	83	0.96
35300300	69534	83	1.00
35300300	69451	83	1.00
35300300	69531	83	1.00
35410500	69430	92	0.89
35600100	69425	92	0.60
35800400	69444	92	0.95
40750300	232462	100	1.00
40750300	111069	100	1.00

Project Description:

This project will rehabilitate buildings within the Painted Desert Community Complex National Historic Landmark to correct maintenance/repair work and address ongoing structural deficiencies, code and accessibility violations, and restore significantly modified historic features. Building and site wall foundations will be stabilized to address long term on-going movement. Building envelopes will be repaired and some areas will be restored to match the original historic design and construction. Select interior spaces will be renovated to meet current needs of the complex and restoration of specific historic design elements will be prioritized. Outdated building and utility systems will be replaced, including upgrading electrical and mechanical systems to meet current demands or replacing the systems that have exceeded their lifecycle. The public restrooms will be updated to improve visitor experience, promote water conservation, and facilitate cleaning. The project also includes installation of additional photo-voltaic panels to harness renewable energy and promote facility sustainability.

Scope of Benefits (SB):

This project will address life safety, health, and code violations making the Park's developed areas safer for employees and visitors. The facility will be upgraded to meet the Architectural Barriers Accessibility Standards (ABAAS) and will be compliant with fire egress code requirements. Relocating the fossil demonstration lab to the central plaza will result in expanded visitor access to the park's ongoing science programs.

Investment Strategy (IS):

Resolving these structural, building envelope, interior, and related critical system issues in one holistic rehabilitation effort is the most economically viable and logistically efficient way to execute this project while minimizing visitor impacts. The Painted Desert Community Complex is the park's primary visitation and administrative hub for this iconic national park unit, as well as a National Historic Landmark that serves as a significant example of Mission 66 architecture. Petrified Forest serves over 640,000 visitors annually, ranking it in the top 30 percent of national park units. Improving these facilities to address significant code compliance and maintenance deficiencies will allow the park to better serve visitors and employees. A photovoltaic power system will be included, reducing the cost to operate by approximately \$30,000 per year.

Consequences of Failure to Act (CFA):

The park will be unable to provide for core visitor services without comprehensive rehabilitation of these facilities. Over 35 employees are duty stationed at this complex and several management reviews and safety reports have documented the deteriorated conditions of staff office buildings and housing units. The historic fabric and suitability of the facilities will continue to significantly degrade, and permanent loss of additional historic aspects and functionality will result if the existing structures are not properly stabilized and restored. Significant portions of the facilities will remain non-accessible to individuals with disabilities if interior renovations are not completed. Employees and visitors will remain exposed to increased hazards for structural fire and life safety concerns if deficiencies in the electrical, fire suppression, and alarm systems are not addressed.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.96
API Rating:	n/a	92.31
API/FCI Score:	(40%)	39.23
SB Score:	(20%)	13.55
IS Score:	(20%)	20.00
CFA Score:	(20%)	0.02
Total Score:	(100%)	72.80

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 02/22

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 27,173	88
Capital Improvement Work:	\$ 3,639	12
Total:	\$ 30,812	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 5,745
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 30,812
Future Funding to Complete Project:	\$ 0
Total:	\$ 36,557

Class of Estimate: C

Estimate Escalated to: FY 22/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	3,133
LRF Design Funds Received:	\$	2,611
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q4
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 04/21

DOI Approved: YES

Annual Operations & Maintenance Costs \$

Current: \$440,000

Projected: \$411,000

Net Change: -\$29,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 90.90 / 27
Planned Funding FY 2022: \$7,624,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Schoodic Point Water and Wastewater Systems
Project Number: GAOA ID #N056; NPS PMIS #312255
Unit/Facility Name: Acadia National Park
Region/Area/District: North Atlantic - Appalachian
Congressional District: ME02
State: ME

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40710300	81105	65.00	0.22
40710900	81106	88.00	0.68

Project Description:

This project will rehabilitate the potable water and the wastewater systems in Acadia's Schoodic District, which were constructed circa 1970s, modified at various times in the years following, and are aged beyond their useful lives. Over 250,000 visitors use facilities in this remote site each year. Improved water and wastewater treatment systems will decrease the likelihood of environmental contamination and compromised health and safety of visitors and employees.

The project addresses ongoing maintenance/repair work by upgrading the systems for continued service. Work includes renovation of deteriorated lift stations with new pumps, mechanical components, and controls; repair of the supervisory control and data acquisitions (SCADA) system; inspection and replacement of wastewater collection lines; well house reconstruction, and improvements to minimize freezing potential.

Scope of Benefits (SB):

Rehabilitation of these critical utility systems will allow for continuation of recreational opportunities for visitors at numerous developed areas. Facilities will remain open and visitor safety-related potable water and wastewater services will be improved.

Investment Strategy (IS):

Regular scheduled maintenance will remain unchanged after these facility improvements are completed. However, rehabilitation of aged and deteriorating water distribution and wastewater collection components will reduce future corrective and emergency maintenance repairs associated with those activities. Unscheduled maintenance due to system freezes and control failures will be significantly reduced, protecting public areas from wastewater leaks and allowing the park to redirect its staff to address deficiencies at other high priority facilities.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-40 years.

Consequences of Failure to Act (CFA):

Failure to proceed with this project will result in sections of the water system that continue to freeze during normal winter conditions, hampering fire protection capabilities and potable water availability. To combat freezing, the existing system must continually operate the well pump, wasting electrical energy and thousands of gallons of

water. Failure to address wastewater system needs may result in equipment failure, causing a significant health risk to visitors and employees from sanitary sewage overflows in numerous public use areas.

Water and wastewater utility systems at Schoodic will continue to require manual operation, dependent on constant on-site oversight by system operators. Without a SCADA system, discovering and responding to system issues after regular working hours will be challenging.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.39
API Rating:	n/a	76.50
API/FCI Score:	(40%)	40.00
SB Score:	(20%)	10.90
IS Score:	(20%)	20.00
CFA Score:	(20%)	20.00
Total Score:	(100%)	90.90

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 09/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 6,409	84
Capital Improvement Work:	\$ 1,215	16
Total:	\$ 7,624	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 1,421
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 7,624
Future Funding to Complete Project:	\$ 0
Total:	\$ 9,045

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 775
LRF Design Funds Received:	\$ 646
Planning Funds Received from Other Funding Sources:	\$ 0
Design Funds Received from Other Funding Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2023/Q3
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$202,000

Projected: \$202,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 76.40 / 28
Planned Funding FY 2022: \$9,887,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Primary Park Water Systems
Project Number: GAOA ID #N089, NPS PMIS #240821
Unit/Facility Name: Organ Pipe Cactus National Monument
Region/Area/District: Lower Colorado Basin
Congressional District: AZ03
State: AZ

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35231200	72673	52.00	0.02
35300200	72624	63.00	0.05
35300200	72626	75.00	0.04
35300200	72602	75.00	0.09
35300200	72621	75.00	0.03
35300200	72618	75.00	0.03
35300200	72615	63.00	0.03
35300200	72611	75.00	0.02
35300200	72594	63.00	0.04
35300200	72493	63.00	0.04
35300300	72627	75.00	0.02
35300300	72888	83.00	0.01
35310000	72663	75.00	0.07
35310000	72488	61.00	0.07
35310000	72665	75.00	0.23
35801100	99654	53.00	0.02
40710300	72350	65.00	0.71
40750100	72666	76.00	0.01
40760100	72452	63.00	0.94
40760100	72685	63.00	0.28
40760100	72866	88.00	0.26
40760100	72862	63.00	0.16
40760100	72473	63.00	0.69
40760100	72387	88.00	0.31
40760100	72870	88.00	0.53
40760200	74253	71.00	0.05
40760200	72867	63.00	0.23
40760200	72485	63.00	0.88
40760200	72482	63.00	0.30
40760300	92462	63.00	0.05

Project Description:

This project will replace various components related to the domestic and fire protection water distribution system to address various system deficiencies. New underground primary and secondary water distribution lines will be

constructed to meet potable water needs and required flow for fire protection. A failing water supply well and two water storage tanks will be replaced. Undersized pipe and all existing asbestos-cement (Transite) distribution main lines will be replaced to comply with Arizona Department of Environmental Quality requirements. All valves will be replaced, including valve boxes and hydrants, throughout the system to ensure proper functionality. Existing meters will be replaced with remote read capable meters, to include magnetic flow meters near initiation of the water supply. A supervisory control and data (SCADA) system will be installed for remote monitoring and control purposes. Replacement of distribution lines will involve excavation across at least 12 park roads, which will require subsequent surface repairs.

Scope of Benefits (SB):

Organ Pipe Cactus National Monument hosts over 250,000 annual recreation visits each year. The park's visitation and operation is completely dependent on an adequate water supply and distribution in the arid Sonoran desert.

This project aligns with recommendations from numerous resource management documents; the improvements will minimize disturbances and increase protection of natural and cultural resources. The work addresses recapitalization and modernization of critical and non-critical systems. This project will address life safety, health, and utility code deficiencies, making the Park's developed areas safer for employees and visitors.

Investment Strategy (IS):

Organ Pipe Cactus National Monument's primary wells have collapsed in the past due to their age and need to be redeveloped to be more resilient in the face of climate change and drought. Several of the park's water mains date to the original development period of the park (1960's) and are prone to frequent failure. Investment in replacing these weak elements of the park's water system will support visitation to this special desert ecosystem for decades to come.

Following project completion, unscheduled repair and corrective maintenance costs are expected to decrease. Maintaining the water system in good condition is a high priority, and the new well, tank, and pipe components will allow for more sustainable preventive and recurring maintenance schedules. The replacement system will use more durable materials and components to provide maximum efficiency for pumping, distribution, and water conservation.

After project completion, the systems addressed by this project should not require major recapitalization or modernization for at least the next 50 years.

Consequences of Failure to Act (CFA):

Failure to address the maintenance, life safety, health, and utility code discrepancies will result in a diminished experience for park visitors and create an unsafe/unhealthy environment for employees and visitors. Delaying rehabilitation of this utility system will result in continued and recurring water outages for visitors and employees. As the system degrades, additional leaks will continue to emerge that may impact the park's fire protection and fire-fighting capabilities. Leaks also serve as potential points of contamination of the park's water supply and could pose a significant health risk to all visitors and employees—potentially forcing a complete shutdown of the park and its facilities for an extended time.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.32
API Rating:	n/a	69.37
API/FCI Score:	(40%)	38.68
SB Score:	(20%)	14.54
IS Score:	(20%)	20.00
CFA Score:	(20%)	3.18
Total Score:	(100%)	76.40

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 06/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 7,738	78
Capital Improvement Work:	\$ 2,149	22
Total:	\$ 9,887	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 1,913
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 9,887
Future Funding to Complete Project:	\$ 0
Total:	\$ 11,800

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 1,075
LRF Design Funds Received:	\$ 838
Planning Funds Received from Other Fund Sources:	\$ 0
Design Funds Received for Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q1
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$733,000

Projected: \$733,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 82.30 / 29
Planned Funding FY 2022: \$52,588,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate/Replace Canyon & Grant Village Wastewater Collection and Treatment Systems
Project Number: GAOA ID #N091, NPS PMIS #310402
Unit/Facility Name: Yellowstone National Park
Region/Area/District: Upper Colorado Basin
Congressional District: WYAL
State: WY

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
0	253831	100.00	0.00
0	253830	100.00	0.00
35500400	15090	100.00	0.42
35500500	10384	78.00	1.00
40710900	4272	100.00	0.70
40710900	4276	100.00	0.79

Project Description:

This project will address deficiencies associated with the Canyon Village and Grant Village wastewater collection and treatment systems. The project's scope of work includes replacement of headworks, process tanks, sludge handling, and advanced wastewater treatment processes, rehabilitation or replacement of wastewater collection systems, replacement of pumps, motors, blowers, tanks, piping, controls, and buildings that house treatment processes, improvement to lift stations and controls, replacement of back-up generators and controls, replacement of lift station and back-up generation enclosures, and installation of collection and treatment process telemetry.

Scope of Benefits (SB):

This project addresses extensive maintenance/repair work by eliminating deficiencies associated with critical systems such as wastewater collection piping, lift stations, and treatment systems while providing for the health and well-being of the park visitors and staff as well protection of natural resources. Once work is complete, the system will require far less corrective maintenance, and will feature improved energy efficiency and reduced operational requirements. A reliable wastewater system would be in place for 2.7 million annual visitors at Canyon Village and 2.1 million annual visitors at Grant Village each year.

Investment Strategy (IS):

The replacement systems will be more efficient and less costly to manage, and their improved reliability will also require less unscheduled, corrective, and emergency maintenance. More efficient monitoring of system performance will be possible with the implementation of telemetry and remote supervisory control and data acquisition (SCADA) systems.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 40-50 years.

Consequences of Failure to Act (CFA):

Failure to address numerous, serious deficiencies associated with the Canyon Village and Grant Village wastewater collection and treatment systems will allow for their continued and ever-accelerating deterioration, requiring more frequent and costly repairs and the potential for a complete system failure. In the event of a system failure, visitor facilities may need to close and there is the potential to have a catastrophic spill of sewage into major Yellowstone bodies of water.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.64
API Rating:	n/a	96.33
API/FCI Score:	(40%)	39.87
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	2.43
Total Score:	(100%)	82.30

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 02/22

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 39,063	75
Capital Improvement Work:	\$ 12,985	25
Total:	\$ 52,588	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 9,805
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 52,588
Future Funding to Complete Project:	\$ 0
Total:	\$ 62,393

Class of Estimate: C

Estimate Escalated to FY 22/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 5,348
LRF Design Funds Received:	\$ 4,457
Planning Funds Received from Other Fund Sources:	\$ 0
Design Funds Received from Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2026/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: YES

Annual Operations & Maintenance Costs \$

Current: \$1,409,000

Projected: \$1,394,000

Net Change: -\$15,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 73.60 / 30
Planned Funding FY 2022: \$7,029,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Hurricane Ridge Day Lodge
Project Number: GAOA ID #N092, NPS PMIS #184745
Unit/Facility Name: Olympic National Park
Region/Area/District: Columbia – Pacific Northwest
Congressional District: WA06
State: WA

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35290700	21569	65.00	0.566

Project Description:

This project will rehabilitate the Hurricane Ridge Day Lodge (HRDL). The project will improve the electrical and plumbing systems, fire detection and notification systems, and the elevator to meet current code. The roof will be replaced and structurally improved, windows, doors, exterior wall covering and floor coverings will be replaced, and interior walls will be repainted. The restrooms, interior and exterior access routes, and parking will be improved to comply with the Architectural Barriers Act Accessibility Standards. Extensive concrete work and modification of the unisex restroom adjacent to the main level entry will be completed to provide two restrooms and rehabilitation of the three lower level restrooms. Component renewal of the heating and ventilation system and the underground fuel storage tank that serves the system will be completed.

Scope of Benefits (SB):

This project will bring the facility into compliance with current structural, electrical, plumbing, mechanical, fire, and accessibility codes. Structural issues resulting in air and water penetration into the building will be resolved. The critical systems that protect the building and provide for visitor safety and enjoyment will be renewed.

Investment Strategy (IS):

The last major renovation of the Hurricane Ridge Day Lodge occurred in 1983. This project will address all current maintenance/repair work and code compliance issues. The systems and building elements included in this project have all reached the end of their lifecycles. This is the most opportune time to complete this project work. Repairing a facility and its systems at the end of their lifecycles (and before any of the systems have experienced major failures) is the most efficient and prudent expenditure of public funds. Following construction, the building will be safer, more energy efficient, and fully accessible for 300,000 annual visitors. Concession operations will be able to continue serving visitors, generating revenues that will contribute to ongoing operation of the facility, helping ensure it is maintained in good condition.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-40 years.

Consequences of Failure to Act (CFA):

Numerous elements of the structure will continue to be non-compliant with current codes. Most notably, visitor access and safety will remain below modern standards. Due to the severe weather conditions in the area, unplanned system failures during the winter season could contribute to catastrophic damage to the facility, resulting in the

need for much costlier repairs and risk of injury to park visitors and staff. Waiting to repair or replace systems after they fail often includes repairing additional damages, driving costs up.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.566
API Rating:	n/a	65.00
API/FCI Score:	(40%)	32.00
SB Score:	(20%)	20.00
IS Score:	(20%)	20.00
CFA Score:	(20%)	1.60
Total Score:	(100%)	73.60

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 04/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair:	\$ 6,679	95
Capital Improvement Work:	\$ 350	5
Total:	\$ 7,029	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 945
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 7,029
Future Funding to Complete Project:	\$ 0
Total:	\$ 7,974

Class of Estimate: B-

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 370
LRF Design Funds Received:	\$ 431
Planning Funds Received from Other Fund Sources:	\$ 42
Design Funds Received from Other Fund Sources:	\$ 102

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q2
- Actual: N/A

Project Complete

- Scheduled: FY 2023/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$39,000

Projected: \$36,000

Net Change: - \$3,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 68.40 / 31
Planned Funding FY 2022: \$54,357,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate Park Water Systems
Project Number: GAOA ID #N085, NPS PMIS #317515
Unit/Facility Name: Big Bend National Park
Region/Area/District: Arkansas – Rio Grande – Texas - Gulf
Congressional District: TX23
State: TX

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35500200	107145	65	0.38
40710300	55654	65	0.39
40710300	53121	77	0.48
40710300	56027	65	0.99
40750100	55751	83	0.04
40760100	53102	13	0.90
40760100	53231	88	0.10
40760100	53101	30	0.80
40760100	53096	20	0.82
40760100	54556	42	0.73
40760100	53099	30	0.76
40760100	53088	53	0.85
40760100	54492	75	0.17
40760100	53098	30	0.90
40760100	53091	13	0.90
40760100	90989	53	0.78
40760100	53094	46	0.94
40760100	53087	63	0.76
40760100	53103	53	0.94
40760300	54546	83	0.99

Project Description:

This project will rehabilitate and improve the water systems at Oak Springs, Chisos Basin, and Panther Junction. When combined, these systems serve roughly 58 percent of park visitors in peak seasons. The project will rehabilitate chlorination buildings, replace/expand water storage capacity, correct performance, and monitoring issues, and install modern supervisory control and data acquisition (SCADA) systems. This project will replace outdated and leaking distribution lines, valves, reduced pressure assemblies, water fill stations, and fire hydrants throughout these systems. Replacement distribution lines may have larger diameters to accommodate increased demands and fire suppression flow requirements.

Distribution lines may be installed via directional drilling to minimize impacts in wilderness areas. Much of the water line route has integral retaining walls and in some sections the elevation changes as much as 1,300 ft. Roughly 39 percent of the route is in recommended wilderness.

Where utilities run underdeveloped areas and the park cannot utilize directional drilling, the project includes funding for restoration of pavement, landscaping, and trails.

Scope of Benefits (SB):

The park's visitation has increased nearly 500 percent since the water systems were originally built. Both visitors and employees depend on reliable potable water in the park's arid environment. These systems also provide water for existing fire suppression and hydrant systems. Fire suppression systems cannot be installed in many park residences and visitor facilities because of inadequate or unreliable water supply, storage capacity, flow rates, or pressure. This project will resolve those issues.

Investment Strategy (IS):

Completion of this project will provide more reliable systems that will meet or exceed flow capacity requirements for domestic water and fire protection for years to come. Installation of remote-read meters will allow for more efficient collection and monitoring of meter data. Installation of SCADA systems will allow maintenance staff to streamline the oversight of these systems allowing the operations to run more smoothly and cost-effectively. Ongoing service disruptions and repair costs will be significantly reduced.

The Chisos Basin area provides the park's only overnight concession hotel (72 rooms) and restaurant. This system also serves a year-round visitor center, a year-round campground with 60 individual and 7 group sites, and residences for 28 NPS and concession staff and their families.

The Rio Grande Village system provides water to the year-round campground (100 individual and 4 group campsites), park housing for 19 NPS staff or partners and their families, a recreational vehicle (RV) park with 25 slips, an RV dump station, a concessionaire store and shower facility, a visitor center, Customs and Border Patrol livestock facilities, and the Boquillas Port of Entry, the only such international border crossing facility in the NPS.

The Panther Junction system provides year-round water to park headquarters, the main visitor center, a public school, Border Patrol facilities, the Big Bend Natural History Association offices, a concession store, and residences for 129 NPS staff or partners and their families. It also supports water tankers that supply water to irrigation systems, resource management projects, and parkwide remote, off-the-grid residences.

The NPS will charge non-NPS users of these systems a utility rate based upon Director's Order 35B, which guides the sale of National Park Service produced utilities.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 30-40 years.

Consequences of Failure to Act (CFA):

The Chisos Basin/Oak Springs water delivery system is critical infrastructure that has exceeded its design lifecycle by 23 years. It is the single-point-of-failure to supply the Basin water system. The Basin storage tanks are insufficient for the potable water and fire suppression demand, especially with expected prolonged drought conditions as the climate warms and dries. The other water systems at the Rio Grande Village and the Panther Junction have also reached or exceeded their expected lifecycle and are undersized for current visitor and operational demands. Failure to act will result in continued service interruptions that will affect both employees and visitors; without upgrading the systems, the NPS could also find itself unable to properly suppress structural and wildland fires.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.47
API Rating:	n/a	52.35
API/FCI Score:	(40%)	37.30
SB Score:	(20%)	10.93
IS Score:	(20%)	20.00
CFA Score:	(20%)	0.17
Total Score:	(100%)	68.40

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 02/2022 Completed N/A

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 40,998	75
Capital Improvement Work:	\$ 13,359	25
Total:	\$ 54,357	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 10,134
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 54,357
Future Funding to Complete Project:	\$ 0
Total:	\$ 64,491

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 5,528
LRF Design Funds Received:	\$ 4,606
Planning Funds Received from Other Fund Sources	\$ 0
Design Funds Received from Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q3
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$486,000
Projected: \$486,000
Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 51.00 / 32
Planned Funding FY 2022: \$10,921,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Replace Headquarters Wastewater System
Project Number: GAOA ID #N084, NPS PMIS #307440
Unit/Facility Name: Glacier National Park
Region/Area/District: Missouri Basin
Congressional District: MTAL
State: MT

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
0	253607	40	0.00
35100000	7879	70	0.11
35500400	7886	65	0.92
40710900	6887	77	0.62
40750300	231560	30	0.47
40760100	107694	52	1.00

Project Description:

This project will replace the existing wastewater system in the Headquarters area. The existing collection system was installed over 50 years ago and is now beyond its estimated design life. Replacement of the system includes a reconfigured run of pipes and manholes. Work includes removal of the lift station's propane generator and its underground propane tank. The existing lift station duplex wastewater pumps will be replaced, and a new telemetry system will be installed. Selective restoration of the lift station building will be performed.

The project will also remove the existing, inadequately sized, natural gas emergency back-up generator outside of headquarters building 295. A new generator building will be constructed nearby to house a new, larger natural gas generator to provide backup power for the headquarters building and lift station. Work includes installing a new automatic transfer switch and associated wiring.

Scope of Benefits (SB):

Replacement of the wastewater system and backup electric system in the Headquarters area will help ensure park operations are more sustainable, safe, and efficient. This project will address health concerns related to the age of the sewer system, significantly reducing the potential for failure, and making the Park's developed areas safer for employees and visitors.

Upgrades to the backup generators will ensure that operations remain stable even during power interruptions. In particular, the headquarters building is the park's command and control center and houses the Park Dispatch Center. Consistent and reliable power will ensure that communication with park staff and emergency personnel are not interrupted and allow the park to respond more effectively and address specific health and life safety concerns in all weather conditions.

Investment Strategy (IS):

This project will improve the function of this wastewater system, eliminate leaks, reduce the number and cost of corrective maintenance projects, eliminate clogs, and extend the lifespan of the system by 50 years.

Converting generator operations to natural gas rather than propane or diesel will provide annual fuel savings by not having to pay for propane to be delivered by truck. The generator providing backup power to the park headquarters will be housed in a new structure, which will be constructed with durable, low-maintenance materials such as cement board siding and metal roofing to minimize maintenance costs. While the new structure will require periodic maintenance such as painting to upkeep, it will protect the electrical systems from weather and environmental damage, increasing their reliability and resiliency in this harsh winter environment.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-30 years.

Consequences of Failure to Act (CFA):

Failure to act will cause the system to continue to deteriorate, leading to longer downtimes and costlier repairs in the future. Standard preventative maintenance activities on a new system are manageable, whereas corrective maintenance activities are usually unplanned efforts that draw resources away from other routine needs.

Likewise, failure to replace the headquarters generator will expose the park command, control, and dispatch activities to risk of failure during power outages. Park visitor and staff health and life safety will be compromised. With the limits of the current system, an extended outage in the winter could also result in major damage to the facility and mechanical infrastructure.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.48
API Rating:	n/a	55.67
API/FCI Score:	(40%)	27.52
SB Score:	(20%)	6.46
IS Score:	(20%)	16.89
CFA Score:	(20%)	0.13
Total Score:	(100%)	51.00

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes
VE Study: Scheduled 02/2022 Completed N/A

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 8,491	82
Capital Improvement Work:	\$ 1,979	18
Total:	\$ 10,921	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 2,036
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 10,921
Future Funding to Complete Project:	\$ 0
Total:	\$ 12,957

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	1,111
LRF Design Funds Received:	\$	925
Planning Funds Received from Other Fund Sources:	\$	0
Design Funds Received from Other Fund Sources:	\$	0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$134,000
Projected: \$125,000
Net Change: -\$9,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 49.80 / 33
Planned Funding FY 2022: \$11,253,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Rehabilitate South Campground
Project Number: GAOA ID #N087, NPS PMIS #317454
Unit/Facility Name: Zion National Park
Region/Area/District: Upper Colorado Basin
Congressional District: UT02
State: UT

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35240100	65738	55	0.95
40180300	238488	25	0.32
40660100	65471	27	0.57
40660100	65474	36	1.00
40660100	65484	36	0.92
40710300	65593	65	0.03
40710900	89598	88	0.91
40720100	115777	40	0.17
40750100	65610	93	0.19
40750100	65608	60	0.60
40750300	65605	54	0.26
40750800	65611	30	0.07
40751000	65581	52	0.32
40760100	104928	77	0.33
40760100	65428	77	0.58

Project Description:

This project rehabilitates several visitor facilities and amenities. Work includes rehabilitation of the South Campground, an historic comfort station, and the Watchman Amphitheater.

The South Campground project scope includes total rehabilitation of roads, utilities, and approximately 128 campsites. Vehicle pads will be repaved, and visitor use areas will be resurfaced and delineated, and site furnishings will be replaced. Three outdated comfort stations will be demolished to allow for their replacement via a Recreation Fee project, which is scheduled to execute concurrently. Work will also address deficiencies in dumpster enclosures and pathways. The campground road system will be partially reconfigured and repaved. Road gates will be installed and the overall site will be restored to improve aesthetics and visitor comfort.

The Historic Comfort Station rehabilitation project will update utilities and fixtures while preserving the character of the historic South Campground Comfort Station. Pathways will be improved to enhance the visitor experience and improve accessibility.

The Watchman Amphitheater project scope includes total rehabilitation of the facility to achieve compliance with accessibility standards. Accessible seating and stage areas will be installed. Pavement and a storm drain will be replaced to reduce hazards and conform to the Architectural Barriers Act Accessibility Standards.

Scope of Benefits (SB):

All facilities within the campground are in poor condition and have continued to be used beyond their design life, resulting in a maintenance/repair work need that requires total rehabilitation of the campground. Despite its condition, campsites at the South Campground are filled to 90-100 percent occupancy annually. Around 100,000 visitors utilize the campground each year, and it is one of two most heavily used campgrounds in the Main Canyon. Restoration of the existing campsites will improve the visitor experience. Additionally, due to this campground's relationship to the South Entrance and transportation system, the majority of Zion's 4.3 million annual visitors will be positively impacted by this rehabilitation. Benefits will also extend to NPS employees due to the annual reduction in facility maintenance, invasive plant removal, and ditch maintenance.

The South Campground comfort station does not comply with accessibility standards and utilizes inefficient fixtures. Rehabilitation will address these issues, allowing the facility to operate more efficiently and effectively.

The Watchman Amphitheater has significant accessibility deficiencies. Individuals with disabilities will greatly benefit from reconfigurations and improvements to this facility.

Investment Strategy (IS):

The cost to operate the improved sites will be offset by the reduction in maintenance needs through replacement of non-efficient features, improved irrigation efficiency, improved delineation, and repaving of roads. Overall, these improvements will benefit visitors and provide the park with a better mechanism to control access and increase fees in the future.

The South Campground comfort station was constructed in 1934 and is the campground's only historic restroom. While it still functions with its current configuration and features, it requires excessive corrective maintenance activities.

Improved accessibility at the Watchman Amphitheater will greatly benefit individuals with disabilities, including visitors seeking interpretive presentations and NPS employees leading ranger programs.

Consequences of Failure to Act (CFA):

Failure to act will allow all of these facilities to continue to deteriorate, impeding visitor access and reducing visitor satisfaction.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.29
API Rating:	n/a	54.33
API/FCI Score:	(40%)	17.74
SB Score:	(20%)	12.26
IS Score:	(20%)	19.80
CFA Score:	(20%)	0.00
Total Score:	(100%)	49.80

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 02/2022 Completed N/A

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 7,926	70
Capital Improvement Work:	\$ 3,327	30
Total:	\$ 11,253	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 2,413
FY 2022 Recreation Fee:	\$ 1,916
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 11,253
Future Funding to Complete Project:	\$ 0
Total:	\$ 15,582

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 667
LRF Design Funds Received:	\$ 954
Planning Funds Received from Other Fund Sources:	\$ 713
Design Funds Received from Other Fund Sources:	\$ 79

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q1
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$717,000
Projected: \$714,000
Net Change: -\$3,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 55.0 / 34
Planned Funding FY 2022: \$21,963,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Demolish Outdated Infrastructure to Enhance Scenic Features and Visitor Experience
Project Number: GAOA ID #N061, NPS PMIS #284991
Unit/Facility Name: Lake Mead National Recreation Area
Region/Area/District: Lower Colorado Basin
Congressional District: NV04, NV03
State: NV

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35240100	85372	7.00	0.90
35240100	39200	34.00	0.92
35240200	35548	25.00	0.85
35240200	102284	12.00	0.93
35240200	36980	25.00	0.86
35240200	102352	12.00	0.90
35240200	102347	12.00	0.90
35240200	102310	12.00	0.92
35240200	36979	25.00	0.81
35240200	236125	12.00	0.93
35240200	35543	65.00	0.86
35240200	102287	12.00	0.90
35240200	102353	12.00	0.90
35291700	85295	37.00	0.80
35291800	36098	12.00	0.87
35300200	36101	20.00	1.00
35300200	36102	13.00	1.00
35410500	36099	7.00	0.94
35410500	85374	7.00	0.85
35410500	85373	7.00	0.90
35410500	85375	7.00	0.87
35500200	39199	23.00	0.96
35500500	36153	52.00	0.86
35800500	39208	7.00	0.96
40130400	17969	41.00	1.00
40130400	43813	88.00	0.01
40130400	17987	58.00	1.00
40130400	17555	58.00	1.00
40130400	17934	58.00	1.00
40130400	17926	88.00	0.01
40130400	43812	88.00	0.01
40130400	43811	55.00	0.07
40130400	43814	58.00	0.98
40130400	18065	58.00	1.00

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40660100	42768	15.00	1.00
40660100	111476	15.00	0.80
40660100	42769	15.00	1.00
40710300	18074	27.00	0.94
40710300	17910	77.00	0.18
40710900	17672	88.00	0.12
40710900	17992	88.00	0.17
40710900	17912	88.00	0.39
40710900	17542	88.00	0.16
40710900	17594	88.00	0.18
40710900	18076	12.00	0.87
40710900	17974	88.00	0.18
40750100	17675	54.00	1.00
40760100	42186	53.00	0.85
40760100	43003	7.00	0.18
40760100	111471	15.00	0.82
40760100	111477	15.00	0.81
40760100	42255	12.00	0.89
40760200	42993	33.00	1.00

Project Description:

This project restores the park’s scenic features by removing unneeded, abandoned, and potentially dangerous structures and supporting infrastructure, and returns the sites to their natural conditions, enhancing the visitor experience.

Facilities will be decommissioned at Boulder Beach, Echo Bay, and Overton Beach. Demolition associated with water and wastewater systems include water tanks, a treatment plant and associated storage tanks, a treatment building, a wastewater system and lagoons, multiple mobile restrooms and dump stations, and comfort stations. The project will also demolish the Echo Bay Motel, concession facilities, a ranger station, housing units, a campground, a launch ramp, and all associated roads and parking areas, and utilities. Hazardous materials abatement will be conducted as necessary at all project locations.

The sites will be regraded and contoured to blend into the surrounding topography to facilitate proper storm water runoff and minimize erosion. All areas will be returned to their original condition with placement of native topsoil and desert plants harvested from within the park

Scope of Benefits (SB):

The park has long sought to remove these deteriorating structures. Demolishing the structures will eliminate \$64 million of backlogged maintenance/repair work. In addition, a total of 8 acres will be restored to its natural condition to support the native flora and fauna, and natural stormwater runoff patterns will be reestablished to prevent erosion. The project will remove this “attractive nuisance” which eliminates the risk of vandalism, improving safety conditions for visitors and park staff, including mitigation of hazardous materials. The restored landscape will be safe and available for the public to enjoy.

Investment Strategy (IS):

This demolition will remove 36,000 square feet at the Echo Bay motel and 36,000 square feet at the Overton Beach complex from the park’s Real Property Inventory—assets that would otherwise require some level of oversight and management to ensure they remain secure and maintained to a minimum level of safety. This project will also help reduce the frequency at which law enforcement have to respond to nuisance and vandalism calls. The park will be able to divert these resources to other, higher priority services and functions.

Consequences of Failure to Act (CFA):

Failure to address these issues will result in these sites becoming more of a burden and safety concern for maintenance and law enforcement staff. Life safety, health and code violations already create an unsafe and unhealthy environment for employees and visitors.

The abandoned buildings will continue to blight the surrounding area, with hazardous materials continuing to remain on-site. Ongoing deterioration of the buildings diminishes the natural beauty of all areas and will continue to divert park resources.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.29
API Rating:	n/a	35.13
API/FCI Score:	(40%)	29.83
SB Score:	(20%)	1.56
IS Score:	(20%)	14.68
CFA Score:	(20%)	8.93
Total Score:	(100%)	55.0

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Completed 10/17

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 5,279	24
Capital Improvement Work:	\$ 16,684	76
Total:	\$ 21,963	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 931
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 21,963
Future Funding to Complete Project:	\$ 0
Total:	\$ 22,894

Class of Estimate: C+

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 186
LRF Design Funds Received:	\$ 745
Planning Funds Received from Other Fund Sources:	\$ 0
Design Funds Received from Other Fund Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2023/Q4
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$3,072,000

Projected: \$0

Net Change: -\$3,072,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 69.00 / 35
Planned Funding FY 2022: \$12,572,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Demolish Excess Structures to Improve Safety, Operations, and Promote Financial Sustainability
Project Number: GAOA ID #N096, NPS PMIS #304727
Unit/Facility Name: Cape Cod National Seashore
Region/Area/District: North Atlantic - Appalachian
Congressional District: MA09
State: MA

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35291400	44140	7.00	1.00
35291500	44143	7.00	0.01
35291700	44128	7.00	0.01
35300200	80466	35.00	1.00
35300200	244237	42.00	1.00
35300200	39752	12.00	1.00
35300200	39610	12.00	1.00
35300200	80520	12.00	1.00
35300200	80541	12.00	1.00
35300200	80523	12.00	1.00
35300200	252368	0.00	1.00
35300200	80561	0.00	1.00
35300200	80554	12.00	1.00
35300200	253307	12.00	1.00
35300200	80553	12.00	0.69
35300200	80540	12.00	1.00
35300200	253306	12.00	1.00
35300200	44144	7.00	1.00
35300300	44175	12.00	1.00
35300300	44190	12.00	1.00
35300300	44189	12.00	1.00
35300300	44182	12.00	1.00
35300300	44181	12.00	1.00
35300300	44174	12.00	1.00
35300300	44188	12.00	1.00
35300300	44186	12.00	1.00
35300300	44179	12.00	1.00
35300300	44176	12.00	1.00
35300300	44178	12.00	1.00
35300300	44187	12.00	1.00
35300300	44184	12.00	1.00
35300300	44185	12.00	1.00
35300300	44183	12.00	1.00
35300300	44177	12.00	1.00

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
35300300	44180	12.00	1.00
35300500	80457	12.00	1.00
35300700	99925	13.00	1.00
35300700	80464	12.00	1.00
35410700	114112	0.00	1.00
35740100	106575	0.00	0.22
35740100	106574	0.00	1.00
40750300	108532	30.00	0.06

Project Description:

This project will demolish multiple non-historic, abandoned structures within Woodlands, the Highlands Center, and old MITRE site. The buildings are over 60 years old, of low-quality construction, structurally compromised, and contain hazardous materials. Their deterioration is accelerating and they are attractive nuisances that pose threats to safety.

Several houses are in sensitive locations including the Herring River floodplain, on the bluff, near ponds and salt marshes, and at former military sites. These buildings will be demolished, hazardous materials will be remediated, and the sites will be restored.

Scope of Benefits (SB):

These structures present an immediate health and/or safety hazard based on the frequent occurrences of vandalism. As the buildings continue to deteriorate, the public is exposed to wind-blown debris and other hazards. The Highlands Center near some of these buildings is used by the NPS and non-profit groups. There are outdoor visitor amenities, including trails, an ocean overlook platform, and a ballfield within close proximity of these structures. Many dog walkers use the area daily. The park's laboratories, maintenance storage areas, and curatorial facilities are also located at the Highlands Center. Park employees are indirectly at risk from the potential hazards and directly at risk when they respond to any trouble in nearby facilities. This demolition work will eliminate operating costs of facilities, life safety concerns, impacts to natural resources, and environmental issues due to hazardous materials in deteriorating structures.

Investment Strategy (IS):

This project decreases operational and maintenance requirements for the NPS. Time and money currently spent on monitoring these vacant deteriorated buildings and implementing temporary repairs to keep them secure from entry will be redirected to higher priority assets. Completion of the demolition will enable redevelopment at the Highlands Center site through leasing of other structures in this immediate area. With the removal of the MITRE structures and over a dozen residences, the completion of site restoration in a remote wooded areas will be completed. The completion of this project will avert \$17M of maintenance/repair work.

Consequences of Failure to Act (CFA):

This project decreases operational and maintenance requirements for the NPS; time and money currently spent on monitoring these vacant deteriorated buildings in scattered areas and the need for incremental repairs to keep them secure from entry will be redirected to higher priority assets, which will not occur if this goes unfunded.

If the demolition is not completed, redevelopment in Highlands Center area through leasing of other structures may not occur, and park rangers will continue to be exposed to hazardous conditions.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.76
API Rating:	n/a	11.81
API/FCI Score:	(40%)	38.44
SB Score:	(20%)	0.46

Category	Percent	Score
IS Score:	(20%)	19.00
CFA Score:	(20%)	11.10
Total Score:	(100%)	69.00

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 10/2021

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 448	4
Capital Improvement Work:	\$ 12,123	96
Total:	\$ 12,572	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 1,261
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 12,572
Future Funding to Complete Project:	\$ 0
Total:	\$ 13,833

Class of Estimate: C+

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 207
LRF Design Funds Received:	\$ 1,054
Planning Funds Received from Other Funding Sources:	\$ 0
Design Funds Received from Other Funding Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2024/Q2
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$287,000

Projected: \$0

Net Change: -\$287,000

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: 72.90 / 36
Planned Funding FY 2022: \$105,681,000
Funding Source: Legacy Restoration Fund - Transportation

Project Identification

Project Title: Rehabilitate Sections of the Natchez Trace Parkway
Project Number: GAOA ID #64, NPS PMIS #254233
Unit/Facility Name: Natchez Trace Parkway
Region/Area/District: Mississippi Basin
Congressional District: MS02, MS01
State: MS

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40660100	67705	75	1.43
40660100	114924	75	5.09
40660100	67713	75	4.76
40660100	80260	75	2.41
40660100	80252	75	1.26
40660100	67712	75	6.13
40660100	80259	75	3.04
40660100	80255	75	3.23
40660100	67717	75	5.25
40660100	67711	75	10.96
40660100	80256	75	3.36
40660100	80253	75	1.52
40660100	67715	75	4.08
40660100	67709	75	4.05
40660100	80257	75	3.34
40660100	80254	75	5.35
40660100	67719	75	2.92
40660100	67707	55	6.91
40760100	67681	88	0.59
40760100	238509	75	1.23
40760100	80247	63	0.94
40760100	80245	88	0.87
40760100	80244	88	1.09
40760100	67701	63	0.86
40760100	67691	75	0.76
40760100	80240	100	0.65
40760100	67678	88	0.28
40760100	67668	100	0.50
40760100	80246	71	0.27
40760100	67695	63	1.22
40760100	104072	88	1.42
40760100	67694	75	0.70
40760100	67673	88	0.28
40760100	104073	88	1.43

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40760100	104048	88	0.89
40760100	80243	88	1.23
40760100	67697	63	0.82
40760500	76103	100	0.15
40760500	76147	100	0.05
40760500	76137	100	0.07
40760500	76129	100	0.10
40760500	76125	100	0.16
40760500	76112	100	0.04
40760500	76109	100	0.04
40760500	76099	100	0.25
40760500	76096	100	0.25
40760500	76146	100	0.10
40760500	76144	100	0.09
40760500	76131	100	0.06
40760500	76130	100	0.21
40760500	76127	100	0.34
40760500	76124	100	0.04
40760500	76101	100	0.09
40760500	76149	100	0.02
40760500	76139	100	0.14
40760500	76126	100	0.29
40760500	76123	100	0.17
40760500	76122	100	0.25
40760500	76120	100	0.11
40760500	76117	100	0.06
40760500	76113	100	0.17
40760500	76105	100	0.04
40760500	76095	100	0.17
40760500	76142	100	0.17
40760500	76119	100	0.07
40760500	76108	100	0.03
40760500	76106	100	0.02
40760500	76104	100	0.11
40760500	76098	100	0.25
40760500	76148	100	0.04
40760500	76135	100	0.22
40760500	76111	100	0.17
40760500	76107	100	0.12
40760500	76097	100	0.32
40760500	76136	100	0.22
40760500	76133	77	0.09
40760500	76121	100	0.08
40760500	76145	100	0.09
40760500	76102	100	0.06
40760500	76100	100	0.05
40760500	76094	100	0.24
40760500	76093	100	0.25
40760500	76141	100	0.44
40760500	76140	100	0.08
40760500	76134	100	0.21
40760500	76132	100	0.07
40760500	76118	100	0.10

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
40760500	76115	100	0.07
40760500	76110	100	0.04

Project Description:

This project will improve approximately 50 miles of the Natchez Trace Parkway, including multiple public access routes and parking lots. The work includes rehabilitating the pavement structure by milling deteriorated pavement and making base and subgrade improvements as needed. Work also includes placement of new asphalt base and surface courses; sealing existing bridge joints; installing audible pavement markings and safety edges to reduce the number of accidents; repairing culverts; repairing bridges as recommended in Bridge Inspection Reports; and making accessibility improvements to parking areas (including ramps, striping, etc.) to ensure the facilities meet Architectural Barriers Act Accessibility Standards.

Scope of Benefits (SB):

The parkway receives approximately 6 million recreational visitors per year, and as many as 14 million visitors total. This section represents roughly one fifth of the total parkway length. In addition to the more stable and manageable road and bridge surfaces, safety of the mainline parkway will be increased for both motorists and bicyclists with the incorporation of audible pavement markings and an asphalt safety edge. A safety edge is an angled edge of pavement which provides a more manageable transition from the shoulder to pavement to prevent overcorrection. Additional work will ensure that visitor parking facilities will meet accessibility standards.

Investment Strategy (IS):

Repairing significant maintenance/repair work of the parkway will improve the condition of the parkway. Planned operations and maintenance activities will remain constant, however, improved conditions resulting from the project will allow for operations and maintenance to be focused on preventative maintenance rather than corrective and unscheduled maintenance.

After project completion, the facilities and systems addressed by this project should not require major rehabilitation or replacement for the next 25-40 years.

Consequences of Failure to Act (CFA):

Without this work, the condition of the pavement will continue to deteriorate, creating rough and uneven driving surface and substantial edge rutting. Fatalities have increased on the parkway in recent years, from around 6 in 2005 to 11 in 2017; many resulted from lane departures, which may have been prevented by audible safety edges. Unless this project is completed, the roadway will continue to deteriorate, driving up the costs for future repairs, and leaving drivers without basic safety and accessibility improvements.

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.44
API Rating:	n/a	90.42
API/FCI Score:	(40%)	33.08
SB Score:	(20%)	19.82
IS Score:	(20%)	20.00
CFA Score:	(20%)	0.00
Total Score:	(100%)	72.90

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: Yes

VE Study: Scheduled 10/21

Project Costs and Status

Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 105,681	100
Capital Improvement Work:	\$ 0	0
Total:	\$ 105,681	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 10,746
FY 2022 Legacy Restoration Fund - (this PDS):	\$ 105,681
Future Funding to Complete Project:	\$ 0
Total:	\$ 116,427

Class of Estimate: C

Estimate Escalated to FY 2022/Q1

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$ 5,746
LRF Design Funds Received:	\$ 5,000
Planning Funds Received from Other Funding Sources:	\$ 0
Design Funds Received from Other Funding Sources:	\$ 0

Major Milestones

Construction Award/Start

- Scheduled: FY 2022/Q4
- Actual: N/A

Project Complete

- Scheduled: FY 2025/Q2
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: \$2,899,000

Projected: \$2,899,000

Net Change: \$0

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: N/A
Planned Funding FY 2022: \$137,932,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: FY23+ Project Planning and Compliance
Project Number: N/A
Unit/Facility Name: N/A
Region/Area/District: N/A
Congressional District: N/A
State: N/A

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
N/A	N/A	N/A	N/A

Project Description:

This funding will be used to complete planning and compliance required for current and future LRF projects. This includes:

Planning: This activity supplies critical budgetary resources needed to develop construction plans and specifications essential for acceptable completion of major facility maintenance, repair, and replacement construction projects for the LRF. In addition to final design documents, this funding typically supports pre-design project programming and budgeting, schematic alternatives, and concept drawings.

Compliance: This activity also provides funding for compliance needs related to addressing impacts to natural and cultural resources. Regulatory requirements that frame compliance activities include the National Environmental Policy Act (NEPA), Section 106 of the National Historic Preservation Act, executive orders, and State requirements. Examples of compliance support include archeological surveys, hazardous material surveys, preparation of historic structure documentation, coordination with State/Tribal Historic Preservation Offices, and environmental assessments.

Planning and compliance funding are a necessary component of any construction project, supporting activities including project pre-planning, development, and scope and cost validation. This activity enhances the NPS's ability to conduct legally defensible, scientifically based analyses that facilitate sound decision-making. It also provides support for compliance needs associated with major construction projects. NPS intends to use the planning and compliance program as emergency contingency in instances where project costs exceed the contingency amounts built into individual project totals. When utilized as an emergency contingency, NPS will request the funds be replenished these amounts in future budget requests. In addition, at the FY 2022 funding level, planning and compliance funding will:

- Support the Pre-designs, Final Designs and Supplemental Services for successful execution of LRF projects.
- Support project planning and project development for large-scale or complex construction projects that will be submitted for LRF funding in future years.
- Provide funding for project compliance activities.

Scope of Benefits (SB):

N/A

Investment Strategy (IS):

N/A

Consequences of Failure to Act (CFA):

N/A

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.00
API Rating:	n/a	0.00
API/FCI Score:	(40%)	0.00
SB Score:	(20%)	0.00
IS Score:	(20%)	0.00
CFA Score:	(20%)	0.00
Total Score:	(100%)	0.00

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: N/A

VE Study: N/A

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 0	0
Capital Improvement Work:	\$ 0	0
Total:	\$ 137,932	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 0
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 137,932
Future Funding to Complete Project:	\$ 0
Total:	\$ 137,932

Class of Estimate: N/A

Estimate Escalated to FY: N/A

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	N/A
LRF Design Funds Received:	\$	N/A
Planning Funds Received:	\$	N/A
Design Funds Received:	\$	N/A

Major Milestones

Construction Award/Start

- Scheduled: N/A
- Actual: N/A

Project Complete

- Scheduled: N/A
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: N/A

Projected: N/A

Net Change: N/A

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: N/A
Planned Funding FY 2022: \$37,626,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Program Administration
Project Number: N/A
Unit/Facility Name: N/A
Region/Area/District: N/A
Congressional District: N/A
State: N/A

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
N/A	N/A	N/A	N/A

Project Description:

This funding will be used to support and oversee planning and execution of the Legacy Restoration Fund (LRF), including efforts to advance or complete current and future projects. These activities are indirect costs, and are not directly applied to individual projects. Three percent of the NPS allocation of LRF funds received in FY21 through FY25 will be requested to fund project support and program administration through the life of the GAOA program, which may extend several years beyond FY25.

The NPS will coordinate program administration between the NPS Comptroller's Office and the NPS LRF Program Management Office (PMO). Additionally, some NPS funding will be transferred to the Department of the Interior to support the Department's PMO, which will coordinate program administration across the bureaus.

The NPS LRF PMO will use industry best practices to initiate, plan, execute, monitor and control, and close out projects. Existing NPS procedures and tools will be adapted and improved to ensure projects stay within scope, budget, and schedule. Activities in this area are related to contracting, budget, finance, external affairs, office support, field office support, human capital, engineering, and project management whose focus is not directed towards a specific project. A series of internal control measures will be applied to ensure all program administration expenses charged to LRF are appropriate and within the boundaries of issued guidance.

At the FY 2022 funding level, the NPS LRF PMO will:

- Evaluate project proposals to ensure that the highest priority, mission critical projects are reflected in the LRF plan.
- Support the Bureau Investment Review Board to ensure projects are of high quality, incorporate sustainable practices, are appropriate to their settings, and demonstrate defensible cost-conscious decisions focused on cost reduction.
- Coordinate with the Department's GAOA Program Management Office
- Formulate and monitor current and future LRF projects.
- Implement procedures and tools to ensure accurate data, timely reporting and status briefs.
- Tracking and monitoring risks; implementing internal controls

Scope of Benefits (SB):

N/A

Investment Strategy (IS):

N/A

Consequences of Failure to Act (CFA):

N/A

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.00
API Rating:	n/a	0.00
API/FCI Score:	(40%)	0.00
SB Score:	(20%)	0.00
IS Score:	(20%)	0.00
CFA Score:	(20%)	0.00
Total Score:	(100%)	0.00

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: N/A

VE Study: N/A

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 0	0
Capital Improvement Work:	\$ 0	0
Total:	\$ 37,626	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 0
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 37,626
Future Funding to Complete Project:	\$ 0
Total:	\$ 37,626

Class of Estimate: N/A

Estimate Escalated to FY: N/A

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	N/A
LRF Design Funds Received:	\$	N/A
Planning Funds Received:	\$	N/A
Design Funds Received:	\$	N/A

Major Milestones

Construction Award/Start

- Scheduled: N/A
- Actual: N/A

Project Complete

- Scheduled: N/A
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 03/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: N/A

Projected: N/A

Net Change: N/A

**NATIONAL PARK SERVICE
Project Data Sheet**

Total Project Score/Ranking: N/A
Planned Funding FY 2022: \$44,078,000
Funding Source: Legacy Restoration Fund

Project Identification

Project Title: Project Management
Project Number: N/A
Unit/Facility Name: N/A
Region/Area/District: N/A
Congressional District: N/A
State: N/A

Project Justification

DOI Asset Code	FRPP Unique Id#	API:	FCI-Before:
N/A	N/A	N/A	N/A

Project Description:

This funding will be used to provide professional NPS project management and contracting services of current and future projects throughout the typical three to five-year construction cycle. The funding also provides quality assurance including project compliance, quality, specialized technical expertise, and risk assessment and management. Project Management encompasses tasks completed over the life of project such as assembling a project team with the expertise necessary to execute the project, establishing the technical objectives, planning the project, and managing changes to the scope and controlling the undertaking so that it is completed on schedule and within budget. Staff funded through this activity provide cost-efficient project management services and rely on the contracted support of design and construction firms nationwide to ensure best value and quality for park projects and services. Project Management activities include coordinating major construction and planning activities, providing for design, compliance, and construction management services, and providing contracting support.

At the FY 2022 funding level, LRF Project Management will:

- Provide project management expertise and capacity to support LRF projects.
- Support and oversee project coordination, design, and contracting/acquisition.
- Justify, document, and support expenses directly attributed to LRF funded projects.
- Support small business goals and socioeconomic programs for the NPS and DOI.
- Support the unique NPS interpretive planning, media, and conservation elements of major construction projects
- Tracking and monitoring risks; implementing internal controls.

Scope of Benefits (SB):

N/A

Investment Strategy (IS):

N/A

Consequences of Failure to Act (CFA):

N/A

Ranking Categories:

Category	Percent	Score
FCI Rating:	n/a	0.00
API Rating:	n/a	0.00
API/FCI Score:	(40%)	0.00
SB Score:	(20%)	0.00
IS Score:	(20%)	0.00
CFA Score:	(20%)	0.00
Total Score:	(100%)	0.00

Combined ranking factors = (0.40 x API/FCI score) + (0.20 x SB score) + (0.20 x IS score) + (0.20 x CFA score)

Capital Asset Planning

Capital Plan Business Case Required: N/A

VE Study: N/A

Project Costs and Status
Project Cost Estimate (this PDS):

Activity	Dollars in thousands	Percent
Maintenance/Repair Work:	\$ 0	0
Capital Improvement Work:	\$ 0	0
Total:	\$ 44,078	100

Project Funding History (entire project):

History	Dollars in thousands
Funded to Date:	\$ 0
FY 2022 Legacy Restoration Fund Funding (this PDS):	\$ 44,078
Future Funding to Complete Project:	\$ 0
Total:	\$ 44,078

Class of Estimate: N/A

Estimate Escalated to FY: N/A

Planning and Design Funds (dollars in thousands):

LRF Planning Funds Received:	\$	N/A
LRF Design Funds Received:	\$	N/A
Planning Funds Received:	\$	N/A
Design Funds Received:	\$	N/A

Major Milestones

Construction Award/Start

- Scheduled: N/A
- Actual: N/A

Project Complete

- Scheduled: N/A
- Actual: N/A

Project Data Sheet

Prepared/Last Updated: 05/2021

DOI Approved: Yes

Annual Operations & Maintenance Costs \$

Current: N/A

Projected: N/A

Net Change: N/A