

PCNP Annual REPORT 2022



Prepared by: Toledo Institute for Development & Environment
Submitted to: National Biodiversity Office - Belmopan

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Executive Summary

Words from the Manager:

2022 continued with the threat of the COVID 19 pandemic but staff were still engaged in Fire management, Law Enforcement, Research and monitoring, Education and Outreach, Networking, Park Improvement and capacity building activities for both staff and communities. With Funding from the Protected Areas Conservation Trust (PACT), MASS Audubon, UNDP GEF Small Grants Program, Overbrook, and Summit Foundation the staff conducted wildfire suppression with Southern Belize Fire Working Group (SFBWG) members in the Deep River Forest Reserve (DRFR) where one of the group members (Wood stop) has a long-term Forest License. Park staff was able to provide basic and advance Fire Management Training for organizations and communities in the Maya Forest Corridor in central Belize, staff of Eco Futures Limited and Toledo communities assisting with building Wildland Fire Management capacity at the national level. We also were able to share the videos and information materials with the wider stakeholders and appeared as guests on National Radio and TV shows focusing on the good and bad faces of fire while at the same time airing the videos and messages developed in the previous year on the importance of managing fires.

The use of the Spatial Monitoring and Reporting Tool (SMART) to collect enforcement data continues and the information is being used to target more focused patrols especially in the dry season when the access road is in good condition where people are entering into neighboring DRFR to conduct activities that can have some negative impacts on the park such as hunting and lighting of fires. This year we also piloted the use of real time surveillance cameras at access point along access road into the park that is producing good results. Research and monitoring include fire effects monitoring at 14 plots scattered over PCNP focusing on pine and palmetto and 6 plots done with University of Florida student focusing on fire effects on vegetation cover, YHP nest monitoring with assistance from Belize Bird Rescue to hand-raised at-risk (poaching, health issues, hurt from attempted predation) chicks to ensure survival and to ensure we are contributing our part in the management of this endangered species. Also, this year we continued with turtle nest monitoring along the coastline of PHMR from Punta Ycacos to Monkey River which yielded great results. We were also able this year to develop a terrestrial research and monitoring strategy that will improve the science-based evidence gathering which will lead to improved management decisions here at the park.

On behalf of the staff and management of the Payne's Creek National Park (PCNP) we would like to take this opportunity to thanks all those who supported our efforts in 2022 in one way or another and we are looking forward to your continued support in 2023 and beyond.

Sincerely
Mario Muschamp
Terrestrial Manager, TIDE

2022 Accomplishments:

1.0 Protection and Surveillance:

1.1 Surveillance and Patrols

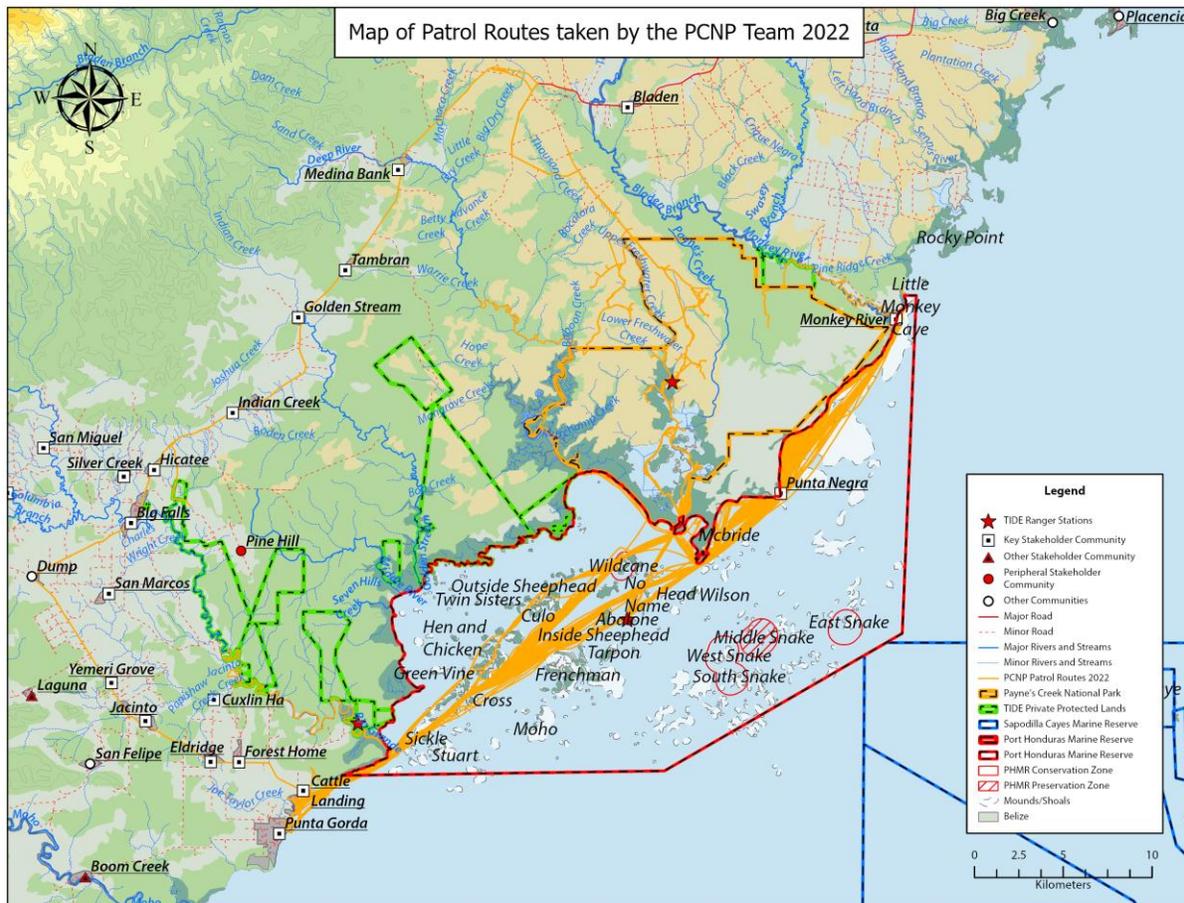


Figure 1: Displaying a map of patrols conducted within PCNP for 2022

The team conducted a total of 352 land and water-based patrols. Within the Port Honduras Marine Reserve (PHMR), PCNP, and the DRFR. In total the team also patrolled for 795 hours, 13,974km and made 1082 observations using SMART. The team made 7 observations of human activity within or near the park including fires, tracks for motorcycles, bicycles and vehicles, camping, trails, and tracks for nearby logging concession, and 1 instance of poaching of YHP.

Although no direct interactions were made with perpetrators conducting illegal activities within the park the team ensured that a high presence was maintained at the park and conducted an essential Green Laws Training with the National Biodiversity Office (NBIO) which ensured that they were prepared to

conduct an arrest if necessary. The team also conducted a field visit with the Forest Department to highlight the threats and challenges present within the park.

1.2 Maintenance of Patrol Equipment

The regular maintenance of our outboard engine was done based on the maintenance schedule in the owners' manual such as engine oil and oil filter change, gear oil change, cleaning and changing of spark plugs, replace cam-shaft seal etc. Additionally, the patrol vessel was regularly cleaned, ensuring it was available for water-based patrols when needed as well as research and monitoring activities. Repairs were also done to the Polaris Ranger making it available for use in enforcement and Research and Monitoring activities especially during the wetter months. We were also able to replace damaged solar equipment by getting power restored to park's facilities after a lightning strike that blew out the charge controller and all panels at the end of 2021.

2. Institutional Management and Strengthening

2.1 Capacity Building

2.1.1 Customer Service Training (in-house)

Park staff participated in an in-house training facilitated by the Financial Sustainability Manager to ensure all staff are aligned when it comes to hosting visitors and ensuring guests have the best experience when visiting the Protected Areas TIDE manages.



Figure 2: Oliver Garay describing the new accommodation certification at PCNP by BTB during the Customer Service Training

2.1.2 Bird banding Training

Park staff participated in a Bird Banding Certification Training Held at TREES where one of the terrestrial staff was certified to the Assistant Bander level. Additional in-house training helped in bringing up the less experienced staff to where they can assist with the data collection. As a result of these capacity building sessions, we continue with improving the data collection and as a result the site after just two years of data collection is now recorded as the second most diverse of the five sites in Belize.

2.1.3 Boat Handling and Maintenance, Drone, Green laws, Case File preparation and court procedures Training (In-House)

Rangers from the three protected areas managed by TIDE participated in a training session with assistance of personnel of the National Biodiversity Office (NBIO) focusing on Boat Handling and Maintenance, Drone handling, Green Laws, Case File preparation and court procedures to bring all staff up to speed, and as a result we are seeing improvement in the less experienced staff when it comes to boat handling and the use of the drone etc. as well as improvements in the knowledge of the Laws that governs the management of the PAs. Finally, staff are more in tune with the processes in the handling of evidence, case file

preparation and court procedures which we believe will lead to better results when we do have to go to court to get a conviction.



Figure 3: Drone trainer Norman Williams guiding his fellow rangers Ezri Mangar and Augustine Sho

2.2 Administration

2.2.1 Staffing

Even with the pandemic and infection rates continuing to rise, we were able to maintain the staff here at PCNP. All four staff at time with assistance from the Field Officer have been available for the most part to carry out the planned activities for 2022. In October one staff resigned (Liberato Pop) and he was replaced in December by (Juan Cucul).

2.2.2 Report Writing

Terrestrial manager and park staff produced quarterly reports that were submitted to TIDE Board of Directors to update them on projects and project activities being implemented in the park as well as provide inputs into project reports to donors.

2.2.3 Hurricane Preparedness

Park staff reviewed and revised the park's Hurricane Preparedness Plan and submitted changes to management for inclusion into the organization's Hurricane Preparedness Plan for the 2022 hurricane season. This year we were fortunate that we were spared a direct hit from a storm, but had to implement the plan on two occasions during September for Hurricane Julia which passed south of Belize, where we saw some impacts from that storm, and Hurricane Lisa in early November that passed north of us, thankfully we had no impact from that storm here at PCNP.

2.3 Park Improvement

2.3.1 Trail Development

Park staff continued with the development of the trails that commenced in 2021 with the help of two interns, by completing the cleaning of the trails and installing the new signs along the trails. Work will continue in 2023 to complete these trails with boardwalks etc. This will improve visitors' satisfaction when visiting the park giving them another attraction in the PA.

2.3.2 TIDE's Fire Management Consultancy

TIDE's Fire Management Expert and Terrestrial Manager along with two PCNP staff assisted via a consultancy to provide Basic Fire Management Training for Organizations and communities of the Maya Forrest Corridor of Central Belize in February. Basic Training was also done for some 81 participants from 16 communities in Toledo during February and March 2022 through a project funded by GEF SGP. Additionally, the team provided Basic Training for some 25 staff of eco-Futures Limited in the Stann Creek District in November. Providing these types of trainings not only brings in a little income to TIDE, but assists with building fire management capacity at the national Level, and implementation of the National Wildland Fire Management Policy and Strategy as well as the Wildland Fire Management Communications Strategy for Belize.



Figure 4: Fire Management Consultancy with Eco Futures

2.3.3 Upgrade to Visitors Facility

This year we were able to do some upgrading of the visitor facilities in the park, with the replacement of the outer walls of the three cabanas to stop water from entering the buildings, as the wood had shrunk and when it rains and we have strong breezes, the inside of these buildings were getting wet. That has now stopped with the improvements made. Also, we did the tiling of the bathrooms, improving the outlook of the facility.

2.4 Networking

2.4.1 Management Meeting

Park manager and staff attended the regular management and all staff meetings which takes place bi-weekly where the management team is updated on projects being implemented at protected areas and to discuss where resources can be pooled to implement the projects effectively and efficiently. This is also accompanied by project review meetings where we look at all projects and update their progress and see where resources can be pooled to improve the implementation where needed. These meetings assist with the smooth implementation of the projects being implemented and assist with the reporting to co-management partner and donors.

2.4.2 Assist at PHMR/TPPL

Park staff from time have been called upon to assist at the two other protected areas managed by TIDE. At these protected areas, staff assist with patrols and surveillance, boundary line maintenance, research and monitoring, education and outreach, riparian reforestation, and other activities. The time spent at the other protected areas is beneficial to us as we get to know the protected areas better, build healthy relationships with the staff and the communities that buffer these areas, and allow for deeper appreciation of the work of field staff.

2.4.3 Advisory Council Meetings

Payne’s Creek National Park Management Committee and the Port Honduras Marine Reserve Advisory Council have merged to form one group to advise TIDE on the management of both PCNP and PHMR. For 2022 the committee held two meetings to discuss the implementation of projects and overall management at both sites. These meetings help with keeping key stakeholders engaged in the management of these areas.

2.4.4 SBFWG Meetings

The Southern Belize Fire Working Group (SBFWG) group held one meeting in 2022, in January at the beginning of the year prior to the opening of the fire season, to discuss plans for the upcoming fire season (Prescribed Burns needed, Training needs etc). All members expressed a need to conduct prescribed burns in their respective sites, training for members staff etc. Members also expressed interest in addressing what is expected for the 2022 fire season based on what we saw in 2021. Members expressed that they would like to see more awareness on the impacts of fire to community and the public, capacity building to improve fire management capacity at the national level, a need to acquire needed equipment for fire management purposes, improved coordination, and collaboration to respond to fire incidents, improve infrastructure to aid in fire detection at an early stage to increase chance of suppression and lessen negative impacts etc.

2.4.5 Meetings/workshops with Forest Department and partners

2.4.5.1 Integrated Water Resource Policy and Strategy

TIDE’s Terrestrial Manager and Education and Outreach Coordinator represented the organization in the workshops held to revised and upgrade the Integrated Water Resource Policy and Strategy and Action Plan for Belize held at the Biltmore in Belize City on 2 September 2022. At this session the focus was on the policy statement and policies in the document. The policy, strategy, and action plan was completed in December and was presented to the relevant department to be taken to cabinet for approval and endorsement.

3.0. Public Use Planning, Recreation Management, Visitor Safety and Control

3.1 Visitors to PCNP

Keeping up with getting accurate data on visitation to PCNP continues to be a challenge due to the many access points into the protected area. From patrols conducted in the estuary system park staff encountered vessels with some guests conducting tourism related activities in the area such as fly fishing and manatee watching via Punta Gorda, Monkey River and Placencia. We know for a fact that there are more guests that we have not captured doing fly-fishing due to us being unable to do daily water patrols

to capture all fly-fishing taking place in the area. Most of the visitors currently accurately accounted for are those via TIDE Tours/Ridge to Reef Expeditions.

4.0. Community Development and Education

4.1 Community Education and Outreach

4.1.1 TIDE Environmental Clubs



Figure 5: Showing youth engagement through fun sessions and competitions

The Toledo Environmental Clubs continue to be the machine on the ground for TIDE’s outreach in communities tackling family violence and environmental themes. A total of three hundred eighty-one youth from 19 clubs in buffer communities participated in clean-ups, reef week, summer camp, club games, environmental and family violence awareness sessions. A total of 120 face to face and online meetings were held during 2022 with all active environmental clubs. TIDE collaborated with the Department of Youth Services, Ya’axche Conservation Trust OCEANA and Humana People to People Belize to provide additional engagement sessions with the youths in the communities.

4.1.2 Environmental Clean-ups

There were 75 organized clean-ups within 19 communities in 2022. This resulted with a total of 852 bags of trash removed and disposed properly at the local landfills while a few clubs repurposed some waste in their communities. The majority of the waste was removed by the Rio Grande River Keepers, followed by Laguna Birding and Environmental Club.

4.1.3 Summer Camp



Figure 6: Summer Camp engagement sessions in various communities

TIDE focused the Annual Summer Camp around the theme, “A Challenge to Reimagine Conservation” adapted from the theme developed by the International Union for Conservation of Nature. TIDE hosted

the camps at seven communities which buffer our protected areas. Camp activities were planned and executed in the villages of Eldridgeville (17) , San Marcos (19), Laguna (21) , Big Falls (27), Mafredi (20), Bladen (17), and Trio (35) reaching a total of 156 children of ages 10 -13 for one week. Club leaders facilitated the camps and nutritious snacks were catered by local community members. This year's camp had 24 facilitators who gave their time to ensure that the learning packages were followed by those who registered for the camps. Apart from the fun activities, campers engaged in community clean-ups whereby a total of 26 bags of trash were removed from the environment, upcycled or disposed in their community landfill. TIDE's 2022 Summer Camp was made possible by Mass Audubon.

4.1.4 25th Anniversary Display Competition

Primary, secondary, tertiary institutions and youth groups buffering TIDE's three Protected Areas were invited to participate in the 25th Anniversary display competition to win attractive prizes. The display competition focused on the theme, "A Challenge to Re-imagine Conservation" on October 21, 2022, at the Toledo Community College Auditorium from 8am to 12 noon. Cash prizes valued at \$1,000 were distributed to four winners. Judges visited booths of Jacinto Roots, Big Falls Eco-Warriors and Changing Tides of PG, and Little Flower RC School. At the end of the event, Little Flower RC School was awarded \$400 (1st Place) , Jacinto Roots (2nd Place) were awarded \$300, and Changing Tides of PG and Big Falls Eco-Warriors were each awarded \$150 (3rd place). Representatives from Ya'axche Conservation Trust were also present sharing their work in the Maya Golden Landscape. At the event, there were an estimated 450 students and adults visiting the booths, with the majority from the Toledo Community College.

4.2 Support to Monkey River Watershed Association

TIDE's Terrestrial manager and resident of Monkey River who is currently serving as president of the Monkey River Watershed Association, along with TIDE's Outreach coordinator continued with their support to this group by participating in group meetings, project implementation and development etc. As president for 2022 we have been working with Worldwide Resource Institute and submitted a project proposal to GCF/World Bank for funding to implement some activities from the Road Map developed in 2020 with funding from UNDP GEF Small Grants Program. The proposal was submitted and approved late 2022, with funding to come on stream in mid-2023. The project will focus on restoring the riparian zone on the mid reaches of the watershed, restoring and protecting the beach and littoral forest along the coastline of the community of Monkey River etc., and working with GOB on legislation to address impacts and adaptation to Climate Change. Also this year we were able to work with the United Nations video crew to develop an awareness video on the Monkey River situation that will be showcased at the Oceans Conference in Portugal, and we also were able to develop a promotional video with assistance from APAMO with 13 Productions.

5.0 Natural Resource Management

5.1 Integrated Fire Management

5.1.1 Developed and submit Prescribed Burn Plans to FD

Park staff developed burn plans as part of a consultancy for eco-Futures that was submitted to the Forest Department for approval. All three plans were approved and implemented at the Sittee River Forest Reserve in the Stann Creek District. No plans were developed for PCNP this year as we were not planning any prescribed fires for PCNP until 2023 wet season.

5.1.2 Wildfire suppression and use

We had two wildfires for 2022 in PCNP, one in January and the other in October during the threat of Hurricane Lisa. Both fires were human caused but burnt during cool weather conditions and went out on their own in the night when conditions reached that moisture of extension. These fires were more beneficial than detrimental to the area so were left to burnout and were able to meet specific objectives such as fuel reduction, and preparation of the ground for seed fall etc.

5.1.3 Fire effects monitoring

In April and May 2022 Park staff collected data at the 14 Permanent Sample Plots in PCNP to look at Fire Effects on Pines. The team collected data on DBH and cone presence or absence on large/mature trees, measure height of saplings and seedlings and identify and map new seedlings/recruits etc. and photo point monitoring. This data was then sent to a Fire Ecologist we work with for analysis. Park staff also assisted UF student Jenifer Fill with data collection on her plots studying ground cover and its relationship to pine recruitment. During this fieldwork, grass species were identified, mapped, measured and tagged and any signs of seed or flowering occurring were recorded. This data was then sent to Jenifer for analysis. She has done a scientific report on the findings and has submitted it to a scientific journal for inclusion as a scientific paper which was well received.



Figure 7: Example of one of many photographs which are taken at each plot

5.1.4 Fire Awareness (Radio/TV shows, Develop Key Messages and Videos)

Terrestrial manager and Wildland Fire Management Expert at TIDE participated in Radio and TV Shows on Love FM/Love TV and Channel 5 to share information on Wildland Fire Management to sensitize the public on the importance of managing fires for biodiversity conservation and public health. Also, with Funding

from a Project funded by UNDP GEF Small Grants Program were able to develop Key Messages to share with the public on the importance of managing fires, short videos on the use of Wildland Fire Management hand Tools and a handbook on the basics of wildland fire management for distribution in 16 communities.

6.0 Research and monitoring

6.1 Yellow Headed Parrot Nest Monitoring

The 2022 Yellow headed parrot nesting season started in January with the installation of nest boxes replacing damaged or rotten boxes followed by weekly monitoring to look at nest success. A total of 73 eggs were laid in the monitored nests, with 45 chicks hatching. A total of five chicks were poached, and six were extracted and transported to Belize Bird Rescue. A total of 28 parrots fledged naturally by the end of the season.



Figure 8: YHP returned from BBR and Mrs. Celia Mahung and Ms. Nikki Buxton

6.2 Participate in annual Christmas Bird Count for the Punta Gorda Circuit

Park staff participated in the Annual Christmas Bird count for the Punta Gorda Circuit held on January 3rd, 2022. As part of the TIDE Team, we covered the Rio Grande River covering some 14 miles by boat on the river, a total of 132 species were counted with one new species recorded for the first time since the count started some 15 years ago, the bare crowned Antbird.

6.3 Sea Turtle nest monitoring assisting Marine Research Team.

Research and monitoring continues to be an integral part in the management effectiveness of the Port Honduras Marine Reserve (PHMR). Monitoring for the year 2022 included lobster surveys, conch surveys, sea cucumber surveys, coral health surveys, reef fish surveys, reef benthic habitat surveys and coral bleaching surveys. A detailed analysis of these surveys can be found in PHMR's Biological Report(s) for 2022.

Reintroduced in 2020 was the monitoring of Turtle Nests. This was led in the field by Mario Muschamp and rangers from the PCNP and TPPL teams. They monitored along the Punta Ycacos coastline up to Monkey River where they made frequent checks during routine patrols. For the 2022 turtle nesting season, there were ~8,357 eggs laid at 58 nesting sites. Of those ~5,737 hatchlings emerged successfully

or 68.6% of the total. ~1,311 eggs were infertile and ~99 eggs damaged by roots. 6 nest sites were partially inundated with partial success. 6 nest sites were completely predated or ~880 eggs. 5 of the total sites were predated by grey foxes and 1 site by racoons. There were several nests which have not hatched at the end of the year therefore the season has not yet completed.



Figure 9: Showing a recently processed turtle nest and hawksbill turtle hatchlings making their way to the water

6.4 Avian Monitoring

Park staff is leading the bird banding team that started doing bird banding as a way of monitoring resident and migratory birds in TIDE managed Terrestrial protected areas with a pilot site at the TIDE Private Protected Lands. The Pilot site is to hone the Team's capacity to start doing the data collection without supervision from ERI personnel that is the lead for monitoring in Belize. Data collected is shared for analysis as part of the country's bird monitoring program and results will be used to inform management decision at the protected areas.



Figure 10: Bander Reymundo Chen guiding PCNP ranger Juan Cucul on filling out the forms

6.5 Biodiversity Monitoring (Camera Trapping)

Park staff continued with camera trapping as a means of monitoring the Park's biodiversity with focus on jaguar and jaguar prey. We started with trapping sites in the savannas of the park for the wet season between September and November and in the Broadleaf Forest up to February 2022. Up to the end of February, pictures of Grey Fox, Jaguar, Ocelot, White tailed deer, Virginia opossum, Collared Peccary and Armadillo (9 banded) were recorded in the savannas while Jaguar, Puma, Ocelot, jaguarundi, Virginia and Grey four eyed opossum, Armadillo, White tail and red brocket Deer, Paca, Agouti, Tapir, Great Curassow, Great Tinamou, and White Lipped Peccary were taken in the broadleaf forest. Based on pictures obtained from cameras it seems most game species are in the area and might still be in good numbers, further assessment and monitoring will eventually lead to us being able to establish population sizes in the future.

7.0 Infrastructure Management

7.1 Maintenance of park's infrastructure, solar system and grounds

Throughout the year the PCNP conducted regular upkeep of grounds of park's infrastructure, conducted servicing of equipment for grounds maintenance, upkeep of buildings were done by staff and where needed a local contractor is brought in specifically for buildings and improvement to water system. Regular servicing of the park's solar system was done by staff ensuring the batteries had enough water etc. Unfortunately, during the last weeks of 2021, the solar system was struck by lightning, burning and destroying eight panels and the charge controller on the system, which in turn knocked out all lights, outlets, and switches on the bunk house, three cabanas, kitchen, and toilet facility. In 2022, an electrician and a solar system designer and installation expert did an assessment of the damages and submitted quotes for repairs and completed the replacement and installation.

8.0 Financial Report

**Toledo Institute for Development and Environment
Payne's Creek National Park Income Expenditure Report January through December 2022**

Ordinary Income/Expense	
Income	
4001 · Grants	380,000.00
4004 · Other Income	628.68
Total Income	<u>380,628.68</u>
 Expense	
3001 · Equipment	15,514.43
3005 · Buildings	11,612.24
5001 · Salaries/Wages & Benefits	186,114.66
5002 · Travel & Transportation	112.21
5003 · Cleaning & Sanitation	2,271.46
5006 · Insurance, Licensing & Permits	4,804.49
5007 · Postage & Delivery	3,312.98
5008 · Professional Fees	25,189.00
5009 · Public Awareness & Env. Ed.	1,975.87
5010 · Repairs and Maintenance	11,829.80
5011 · Supplies	3,530.79
5012 · Training	1,611.65
5014 · Board/Advisory Board Expense	458.25
5015 · Utilities	1,968.74
5016 · Telephone, Comm. & Internet	3,316.83
5017 · Bank Charges	3,104.48
5019 · Reserves & Parks Improvement	15,126.85
5020 · Net Working	388.10
5025 · Institutional Strengthening &	977.88
5026 · Research & Monitoring	1,434.30
5027 · Recruitment	544.26
5035 · Surveillance, Patrol & Enforce	41,222.30
5037 · Community Development	41,083.02
Total Expense	<u>377,504.59</u>
Net Ordinary Surplus	<u>3,124.09</u>
Net Surplus	<u>3,124.09</u>