Quorum having been established, Chair Lundin called the meeting to order at 9:32 a.m. on September 13, 2019.

Commissioners present were Michael Lundin, Chair, Jan Johnson, Vice Chair, Enrique Serna, Richard Barker, Carol Kovalik, Peter Chesson and Victor Rivera. Robert Owens, Anita Kellman and Damion Alexander were absent.
Staff present were Chris Cawein, Robert Padilla, Karen Simms, Brian Powell, Amy Loughner, Ron Odell, Tom Burklow, Dean Rush, Stephen Daigle, Grant Bourguet, Barbara Goenaga and Ann Khambholja.

Those present recited the pledge of allegiance.

Consent Agenda

A motion was made and seconded to approve the July 12, 2019 minutes. The motion passed.

COMMISSION DISCUSSION/ACTION REQUEST

1. Informational update regarding Pond rehabilitation at Agua Caliente Park: Ms. Karen Simms provided the commission with a power point presentation including a brief history of the need to rehabilitate the pond at Agua Caliente Park. Commissioner Chesson asked about whether the palms removed were native and was informed by Ms. Simms that they were probably planted by previous owners. Commissioner Chesson asked how long the pond existed and was informed by Ms. Simms that it was there in the early 1900s though its size has varied over the years. Ms. Simms also indicated that initially there were two springs. Commissioner Chesson asked about the history prior to colonization and Ms. Simms informed him that there have been several investigations of American Indian occupation and that one of the challenges for this project was due to the fact that there was a major Native American habitation near the pond and extending to the private property adjacent to it and that no further investigation would be conducted as the property was already developed when the county acquired it. Ms. Simms informed him that the Friends of Agua Caliente have some history about the area. Interpretive signs are in the Ranch House that talk about the history as well. Commissioner Johnson asked who the previous owners were and was informed by Ms. Loughner that the most recent were the Filiatrault’s and then the Whites and several others over the years. Commissioner Kovalik informed the commissioners that it was a very interesting place to visit and that the ranch house had plenty of history about the ranch. Mr. Cawein informed them that this was all spring fed and that there were several ponds there, however the spring is drying and the county installed a well to feed the ponds. He informed them that a few years back Pond 2 was rehabilitated and lined so as to provide water for wildlife while Pond 1 was rehabilitated. The main goal
of this project is to reduce the amount of ground water pumped out. Commissioner Chesson asked what fish were in Pond 1 and Ms. Simms informed him that it did have blue gill, mosquito fish and bass but no native fish and that unfortunately the pond has been used as a dumping ground for people’s aquariums over the years. She informed them that there was grass carp that NRPR transferred to Pond 2 which were stocked by the county to control vegetation. Commissioner Chesson also asked whether the pond will be stocked with native fish when the project is complete and Ms. Simms informed him that NRPR is working with Game and Fish to include Gila Topminnow, Desert pupfish and probably Gila Chub and sucker fish. Ms. Simms informed them that due to the wet winter the spring began to flow again and Commissioner Kovalik asked whether this was part of NRPR’s contingency plan. Ms. Simms informed her that the spring was not part of the plan but it was managed utilizing existing onsite staff by diverting the water to irrigate trees and ground vegetation. Commissioner Chesson asked whether a polymer liner would be used and Ms. Simms informed him that a polymeric compound would be used by putting it in a 6” or 12” layer of compacted soil and a layer sprayed on top. Mr. Cawein informed him that this procedure had been successfully used at the Canoa Ranch Lake using a combination of 6” and 12”. Additionally, the edges of the pond will be a 3:1 slope, but the pond depth would vary between six and 10 feet, to restrict the cattails. Commissioner Chesson asked whether a platform would be built on the ‘human island’ and was informed that it would be compacted soil and would be ADA accessible as well. Commissioner Serna inquired whether the whole park was ADA accessible and was informed that it is mostly accessible as there are paved trails around the park. The path to the pond had to be reconfigured for accessibility and a handrail would be installed as well. Mr. Cawein informed the commission that they would all be invited to the dedication ceremony. Commissioner Kovalik asked whether any signs had been put up notifying the public that the park was closed and Ms. Loughner informed her that there were signs on Tanque Verde and Roger Roads, as well as the entrance. There were no further questions.

2. Informational update on Turf Management (Tom Burklow/Dean Rush) Mr. Burklow and Mr. Rush introduced themselves to the commission and provided them a power point presentation on NRPR’s turf management strategy. Commissioner Kovalik asked whether equipment was shared between the parks and was informed that some equipment was shared and moved from park to park. She also asked whether there were some main areas identified so as to make equipment sharing more efficient. Mr. Rush informed her that geographic drop points were established to optimize usage. Commissioner Chesson asked how Mr. Rush eradicated clumps of grass and Mr. Rush informed him that there were some products that worked and by knowing the plants and the soil conditions, this could be accomplished. Commissioner Serna commended their work. Commissioner Kovalik asked what the commission could do to assist and whether the tourism office was aware of this and whether tournaments were coming in bringing in revenue for the area. Mr. Burklow said he did not know about that, but informed her that many leagues, seeing the condition of NRPR’s fields want to use them instead of the City of Tucson’s fields. Commissioner Kovalik asked whether Sunnyside High School used any of the fields considering they went to the World Series. She was informed that they used the fields at Mission Manor, a City of Tucson managed park. There were no further questions.

3. Informational update regarding GIS consolidation (Chris Cawein): Mr. Cawein informed the commission that recently the County Administrator and Deputy County Administrator for Public Works made a decision to integrate GIS staff within the county to Central IT. He also reminded them about how NRPR has been working on building its GIS system to provide
information to staff as well as to the public. Mr. Cawein informed them that this was not received well but he believed that this was to enhance the GIS function within the county. He informed them that NRPR was still in the process of building the data set. He informed them that he and Mr. Padilla are still working with IT as to how the transition will work and IT has assured them that they will not allow NRPR’s services to be disrupted and they will have the support they need. Mr. Cawein also informed them he is hopeful it will not be disruptive. NRPR has three staff devoted to GIS management, Ms. Elisabeth Van der Leeuw has moved downtown, the other two, Ms. Lindsay Spencer and Ms. Becky Steinnecker are currently still located at the NRPR main office pending final decision on transition. Mr. Cawein informed them that he would let the commission know if he did not get the support promised. Commissioner Kovalik asked how many entities are looking for this to be built for them. Chair Lundin informed them that the departments that had GIS staff were DOT, RFCD, WW and NRPR. Central IT also had staff members with technical capabilities and special rights. Commissioner Kovalik asked how difficult it would be to build on the base the County already has and Mr. Cawein informed her it was it was dependent on having a good data set. Mr. Cawein informed them he had begun this when he was at RFCD and brought the same ideas to NRPR. Chair Lundin said that there was a lot of opportunity for other departments as well. The county did not want to lose the gains they had already made, thus they were given permission to hire additional staff. Mr. Cawein informed them that as a result of this NRPR has lost about $300,000 in their base budget which was transferred over to IT. Commissioner Serna said that Mr. Huckleberry probably wants to replicate this. Mr. Padilla agreed but also informed him that taking positions and $300,000 was almost punitive if the department does not receive support equal to what is currently being received. Commissioner Kovalik offered the commissions help on this and Commissioner Serna said the Supervisors will hear from them. Mr. Cawein said NRPR will keep working and keep moving forward and would notify the commission if the support from Central IT declines to a detrimental stage. Commissioner Chesson asked how secure the system was. Mr. Lundin informed him that it is as safe as network security can be. IT has an active security team as well. Commissioner Chesson asked whether there were secure ways of backing up the system and Mr. Lundin informed him that the data center spends millions of dollars for upgrades. Commissioner Chesson asked about ransom attacks and was informed that IT stops several every day.

CALL TO THE PUBLIC:

   Curt Larson
   Olen Warrick

FUTURE AGENDA ITEM(S):

   Update on Trails Management
   Procedures regarding how NRPR responds to complaints

ADJOURNMENT: As there was no further business to come before the commission, duly motioned and seconded, the meeting adjourned at 10:58 a.m.
Agua Caliente Park
Pond 1 Restoration
Trouble in Paradise

Water conservation is the focus of a multi-stage process to address the long-term sustainability of the pond.

THE PROBLEM
The spring has not produced measurable flows since 2014. The pond is too shallow as the result of erosion and a buildup of sediment. Shallow water contributes to the spread of invasive cattails. Water loss through seepage out of the pond bottom.

STOP-GAP MEASURES ARE NOT SUSTAINABLE
2004 – A well was installed to pump groundwater as a supplement to the minimal flow from the spring.
2013 – The main pond nearly dried up when the well pump broke down and had to be replaced.
2016 – The last major cattail removal was completed.
2017 – 87 AF or 28,446,000 gallons pumped into the main pond. An estimated 30% to 50% of the water seeped out of the pond bottom.

*(Acre-foot (AF) is a unit of volume equal to the volume of water that would cover an area of one acre to a depth of one foot.)*

PATH TO SUSTAINABILITY
2016 – Pond 2 renovated with impermeable liner.
Summer 2019 – Renovate main pond
- Dredge pond to increase depths.
- Reduce water loss from the bottom with a polymer amended soil lining.
- Replant cattails in containers and increase water depth at edge of cattails to control spread.

THE TIME HAS COME TO RENOVATE THE MAIN POND
The main pond at Agua Caliente Park has been managed in ways that slow the spread of cattails and sediment in order to maintain open surface water, vital riparian and aquatic habitat, cultural and historic resources, and natural beauty. Despite these efforts, the main pond has been filling with sediment and decaying plant material and the cattails have spread beyond what is manageable.

As ponds age they fill with sediment and organic matter.

They become smaller and shallower ponds. This is the stage where the main pond is today.

After Renovation – Water conservation goals are achieved when seepage from the pond bottom is near zero and cattails are contained.
Water Conservation

Water loss due to seepage has long been an issue at Agua Caliente Park, a more efficient strategy is needed.

A Brief History
- In 2002, the Tucson community supported "take no action" over the alternative to create a wetland or ciénega.
- At that time, the spring sustained the pond system.
- The spring dried up; now groundwater is used to fill Pond 1.
- Too much groundwater is required.
- Add losses due to seepage; "take no action" is no longer feasible.
- The County will curtail the water loss, but will maintain Pond 1 and Pond 2.

Pond System Modifications
- In 2016, Pond 2 was renovated to prevent seepage.
- A black High Density PolyEthylene (HDPE) liner was installed in Pond 2.
- In 2019, a liquid polymer emulsion liner will be applied to Pond 1.
- Seepage losses will be dramatically curtailed.

Benefits
- Pumping of groundwater will be significantly reduced because seepage from Pond 1 will be minimized.
- Because overall water losses will be minimized, Pond 2 will also be kept full.
- Greater visibility of the pond surface will result from the removal of selected palms and cattails.
- These changes will result in wildlife habitat improvements and provide more open water for migrating waterfowl.
- The historic character of this Tucson treasure will be restored.

The Path to Sustainability

Evapotranspiration 25%
Evaporation 25%
Seepage 30%

Currently: 14 million gallons of water annually seep out of Pond 1

Evapotranspiration 25%
Evaporation 25%

Polymer Amended Soil/Lining
Minimal Water Seepage

SEAL THE POND: Save millions of gallons of groundwater
Concept Plan – Changes to Come

Water conservation is the focus of this restoration project.

- Pumping of groundwater will be significantly reduced because seepage from Pond 1 will be minimized.
- The underlying water table, that is currently falling, could recover some volume.
- Greater visibility of the pond surface will result from the removal of selected palms and cattails.
- These changes will result in wildlife habitat improvements and provide more open water for migrating waterfowl.
- The historic character of this Tucson treasure will be restored.
Construction Activities

NOTES
1. All construction areas have cultural clearance.
2. Soil source for material to mix with liner polymer may be Pond 1 or Pond 3.
3. Large loaders and scrapers will frequent the Haul Route during construction.

STAGING AREA (Pond 3)
- Materials Storage
- Potential Soil Source
- Soil Storage
- Possible Polymer Lines Mixing Area

CONSTRUCTION ZONE
- Cattails Removed
- Island Created
- Liner Installed
- Bridge Installed

This area will be congested and hazards may be present. Please avoid during construction.
Wildlife Island Veg (H x W)

- Tall Shrubs (10' x 10') 14
- Small Shrubs for cover (4' x 4') 37
- Grasses (3' x 3') 52

Event Island Veg

- Small flowering Shrubs (4' x 4') 24
- Accents (4' x 4') 17
- Flowering groundcover (1' x 3') 55

Cienega

- Sedges Etc (1' x 1') 45

Pond Edge

- Small flowering shrubs (4' x 4') 51
- Accents (4' x 4') 29
- Grasses (3' x 3') 8

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Agua Caliente Pond 1 Planting Plan

Numerous pond features will be retained:

- A Tucson treasure, Agua Caliente Pond 1 will retain and actually improve its historic character.
- Pumping of groundwater will be significantly reduced because seepage from Pond 1 will be minimized. The underlying water table that is currently falling could possibly recover some volume.
- Pond 2 will also be kept full because overall water losses will be minimized.
- Greater visibility of the pond surface will result from construction requirements that necessitate removal of selected palms and cattails.
- Cattail removal will also encourage our native plants and wildlife, and provide more open water for migrating wildlife.
What's Happened So Far?

ONE TIME ONLY OPPORTUNITY!
For a Limited Time, Agua Caliente Park Pond One will be Open for Pole Fishing only
January 2-31, 2019

Help us remove all the bluegill and largemouth bass before the start of the pond restoration project!

- No fishing license required!
- No limit on bluegill, bass, and catfish. Please do not take carp.
- Recommend using top-water lures or weedless lure.
- Fish samples have been tested for heavy metals and are within safe limits for consumption.
- Cleaning fish on site is not allowed.
- Follow park rules and signs.
- Park Hours: 7 a.m.-Sunset
- Parking is limited, first come, first serve. No parking on Roger Road.
- Information: www.pima.gov/nwp/AguaCaliente or 520-724-5000
Pond Draining
May - June - July 2019
Palm Skirting and Removal
Pond muck removal
Cattail and Aquatic Vegetation Removal
Water Management
Coming Up

- Pond dredging/contouring
- Construct Wildlife Island
- Enlarge People Island
- Fill pond
- Irrigation/Landscaping
- Bridge - 2nd phase
OPERATIONS DIVISION
TURF MANAGEMENT PROGRAM

TOM BURKLOW - PIMA COUNTY NATURAL RESOURCES, PARKS AND RECREATION
DEAN RUSH - PIMA COUNTY NATURAL RESOURCES, PARKS AND RECREATION
Pima County-Natural Resources, Parks and Recreation
Operations Division

35 Parks

93 Ballfields

NO COMMON TURF MANAGEMENT PROGRAM!
Our turf...

...could become your number one complaint!
What was happening Pre-February 2018?

* Varying approaches to turf maintenance (fertilization, aerification, other soil amendments, mow height)

* Inconsistent turf quality (various noxious weeds)

* Unsafe playing conditions (change in elevations, lips, depressions, barren spots, etc.)

* Overall, staff had poor institutional knowledge including management

* Hoarding of equipment

* Over/under watering

* Over budget in water use

Staff with the most knowledge/equipment had the best turf!
Identify goals, objectives and outcomes for a Turf Management Program

For us…

▪ Desire for one common, collective approach
▪ Reduce water use
▪ Improve the organic substrate material
▪ Over time = decrease herbicide use
▪ Over time = decrease fertilizer use
▪ Improve turf integrity/appearance, conditions for play and safety
▪ Increase constituent satisfaction, decrease constituent complaints
▪ Increase staff commitment to improving the turf (asset) in every park
▪ Increase staff knowledge
▪ Identify the Program Coordinator
One position dedicated to:
1.) Turf Management
2.) Irrigation system improvements
3.) Field renovations
Needs Assessment and Schedule...

- Identify ballfields to be managed and their specific needs (63 of 93)
- Core sample schedule
- Equipment Inventory and placement
- Material estimates
  - Sod, fertilizer, soil amendments, irrigation parts, etc.
- Schedule
- Field Closures
- Staff, equipment, material
- Monitor Budget

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## Shared Equipment

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### 2018/2019 – Fall/Winter Field Closure Schedule

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<td>McDonald – ALL FIELDS – 1, 2, 3, 4, 5</td>
<td>Jan 1 - Feb 15</td>
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### 2019 – Summer Field Closure Schedule

<table>
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<tr>
<th>ZONE</th>
<th>FIELD</th>
<th>MAY</th>
<th>JUNE</th>
<th>JULY</th>
<th>AUGUST</th>
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<tr>
<td>1</td>
<td>Arthur Pack – 1 infiel only closed</td>
<td>July 1 - Sept 30</td>
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<td>July 29 - Aug 9</td>
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<td>Arthur Pack 7</td>
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<td>Canoe Preserve 1</td>
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<td>9</td>
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<td>George Mehl 1, 2, 3, 5</td>
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<td>George Mehl 6</td>
<td>May 8 - July 31</td>
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<td>July 22 - Aug 16</td>
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### 2019/2020 – Fall/Winter Field Closure Schedule

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<tr>
<th>ZONE</th>
<th>FIELD</th>
<th>DECEMBER</th>
<th>JANUARY</th>
<th>FEBRUARY</th>
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<tr>
<td>1</td>
<td>Arthur Pack – Fields 1, 3</td>
<td>Dec 1 - Jan 20</td>
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<td>2</td>
<td>Canoe – 1, 2</td>
<td>Oct 1 - Nov 5</td>
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<td>3</td>
<td>Lawrence – 1, 2, 4</td>
<td>Dec 2 - Jan 20</td>
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<td>Dec 1 - 31</td>
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<td>Jan 1 - 31</td>
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<td>George Mehl/Foothills – Fields 1, 2, 3, 4</td>
<td>Dec 16-Jan 20</td>
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<td>8</td>
<td>McDonald – ALL FIELDS – 1, 2, 3, 4, 5, 6</td>
<td>Dec 16-Jan 31</td>
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</table>

**Field Coordinator:** Len Altieri  | Len.Altieri@pima.gov  | 724-5196
**Zone 1 Supervisor:** Shane Kizer | Shane.Kizer@pima.gov | 724-5181
**Zone 2 Supervisor:** Chris Dook  | Chris.Dook@pima.gov | 724-5176
**Zone 3 Supervisor:** Roland Duarte  | Roland.Duarte@pima.gov | 724-5214
**Zone 4 Supervisor:** Reuben McClain  | Reuben.McClain@pima.gov | 724-5773
**Zone 5 Supervisor:** Travis Frazier | Travis.Frazier@pima.gov | 724-5183
**Zone 6 Supervisor:** Juan Ponce | Juan.Ponce@pima.gov | 724-5257

Pima County NRPR website:  
http://webcms.pima.gov/government/natural_resources/parks_and_recreation/

Adult/Youth Insurance requirements, Regional Ball Field Interactive Map, Sport Field User Handbook:  

Pima County NRPR website:  
http://webcms.pima.gov/government/natural_resources/parks_and_recreation/

Adult/Youth Insurance requirements, Regional Ball Field Interactive Map, Sport Field User Handbook:  
Arthur Pack Park
Field #3
Questions?