



Meeting Name: Town Council Meeting
Meeting Date: May 22, 2024
Prepared By: Andrea Dobbins, Project Coordinator/Risk Manager
Item Title: Kagan Park Ground Cover Discussion

DISCUSSION:

Kagan Park has had multiple types of ground cover over the years; sand, wood mulch and rubber mulch. Wood mulch has been used but proved to be difficult to keep in the designated play area. During the rainy season and any time a heavy rain event would occur the wood mulch would float over the plastic borders and get deposited throughout the park. Wood mulch breaks down, deteriorates, and needs to be replenished to maintain the fall height criteria for the play equipment. Sand, according to the handbook for “Public Playground Safety” does not meet the fall criteria for the Kagan Park playground equipment and the swings which requires an 8’ fall height. The rubber mulch currently in the park, is validated by IPEMA (International Play Equipment Manufacturers Association), a 3rd party certification service for playground safety, and provided to the ASTM (American Society for Testing and Materials). The rubber mulch meets all the fall height requirements for the playground equipment.

At the May 8, 2024, Council meeting staff was directed to investigate ground cover options for the playground. The only two options for ground cover to meet the fall height safety criteria are rubber mulch or wood mulch or wood chips. An estimate was received to remove the rubber mulch and replace it with the wood mulch for a total cost of \$19,422; removal \$10, 422 + installation \$9,000.

RECOMMENDATION:

Option 1 – Move forward with the selection and installation of a new playground and related turf ground cover as shown in the Kagan Park Playground Survey; Option #__. Funding is currently budgeted from the One Cent Surtax (sales tax) not to exceed the budgeted \$225,000.

Option 2 – Cancel the playground selection and apply for a FRDAP grant in the amount of \$150,000 (75% state funding/25% local funding) and make the immediate minor repairs to the existing equipment. Staff requests \$10,000 from contingency for repairs and the grant application through RMPK Funding.

Option 3 - Cancel the playground selection and apply for a FRDAP grant in the amount of \$150,000 (75% state funding/25% local funding) and make the immediate minor repairs to the existing equipment along with the temporary replacement of ground cover. Staff requests \$30,000 from contingency for wood mulch ground cover, repairs and the grant application through RMPK Funding.

ATTACHMENTS:

Diagram from the Handbook for Public Playground Safety

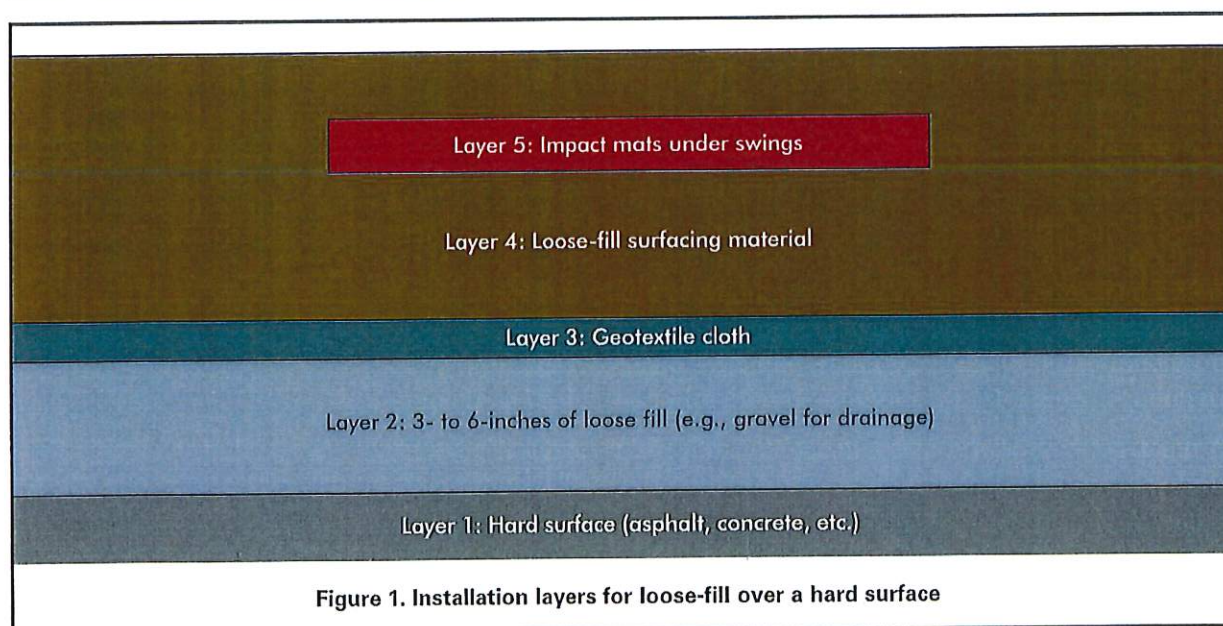
Certificate of Compliance for Rubber Mulch

Kagan Park Playground Survey

Table 2. Minimum compressed loose-fill surfacing depths

Inches	Of	(Loose-Fill Material)	Protects to	Fall Height (feet)
6*		Shredded/recycled rubber		10
9		Sand		4
9		Pea Gravel		5
9		Wood mulch (non-CCA)		7
9		Wood chips		10

* Shredded/recycled rubber loose-fill surfacing does not compress in the same manner as other loose-fill materials. However, care should be taken to maintain a constant depth as displacement may still occur.

**Figure 1. Installation layers for loose-fill over a hard surface**

- Finishes, treatments, and preservatives should be selected carefully so that they do not present a health hazard to users.
 - All fasteners, connectors, and covering devices that are exposed to the user should be smooth and should not be likely to cause laceration, penetration, or present a clothing entanglement hazard (see also §3.2 and Appendix B).
- 2.5.2 Hardware**
- When installed and maintained in accordance with the manufacturer's instructions:
- All fasteners, connectors, and covering devices should not loosen or be removable without the use of tools.
 - Lock washers, self-locking nuts, or other locking means should be provided for all nuts and bolts to protect them from detachment.
 - Hardware in moving joints should also be secured against unintentional or unauthorized loosening.



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IPEMA ASTM F1292-18 (SECTION 4.2) CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 22, 2020

Requested By: Miracle of South Florida

Project: Town of Juno Beach

In the interest of public playground safety, IPEMA provides a third party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to ASTM F1292-18 Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment Standard, Section 4.2, Performance Criterion.

The manufacturers listed below have received written validation from TÜV SÜD America that the products listed conform with the requirements of ASTM F1292-18, Section 4.2.

The validation is made by testing at the specified fall height rating requested by the manufacturer, based upon its experience and knowledge of its products, instead of the "critical fall height" used in ASTM F1292-18. TÜV SÜD America validates that the impact attenuating performance criterion specified by ASTM F1292-18 (Section 4.2) has been met or exceeded.

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	THK/HT	MANUFACTURER
Nuplay	Nuplay	NuPlay	6" / 17'	IMC Outdoor Living



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IPEMA ASTM F3012-14 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 22, 2020

Requested By: Miracle of South Florida

Project: Town of Juno Beach

In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to the ASTM F3012-14 Standard Specification For Loose-Fill Rubber for Use as a Playground Safety Surface under and around Playground Equipment.

The manufacturer listed below has received written validation from TÜV SÜD America that the product(s) listed conform with the requirements of ASTM F3012-14.

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	THK/HT	MANUFACTURER
Nuplay	Nuplay	NuPlay	6" / 17'	IMC Outdoor Living

Kagan Park Playground Survey 148 Responders / 72 Verified



Four options were presented on the survey that showed site plan, renderings and a link to a 360-degree view.



Design Option Reminder

Option 1
IDS Sculpture
\$200,756.15

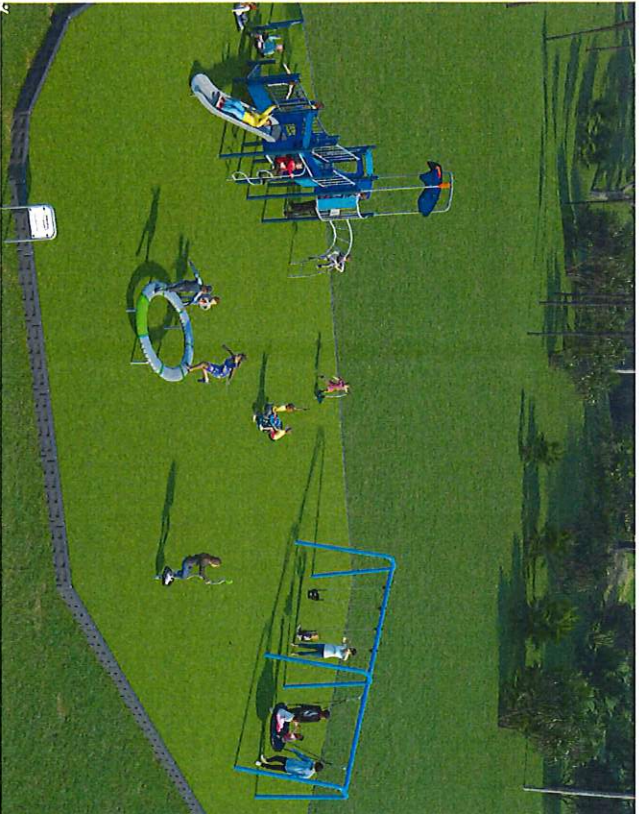
All Responders		Verified Responders	
2%		1%	



Design Option Reminder

Option 2
Single Tower
\$166,392.15

All Responders		Verified Responders	
18%		19%	



Design Option Reminder

Option 3
Ship

\$243,462.32

All Responders	Verified Responders
47%	42%



Design Option Reminder

Option 4
Triple Tower

\$204,170.55

All
Responders

34%

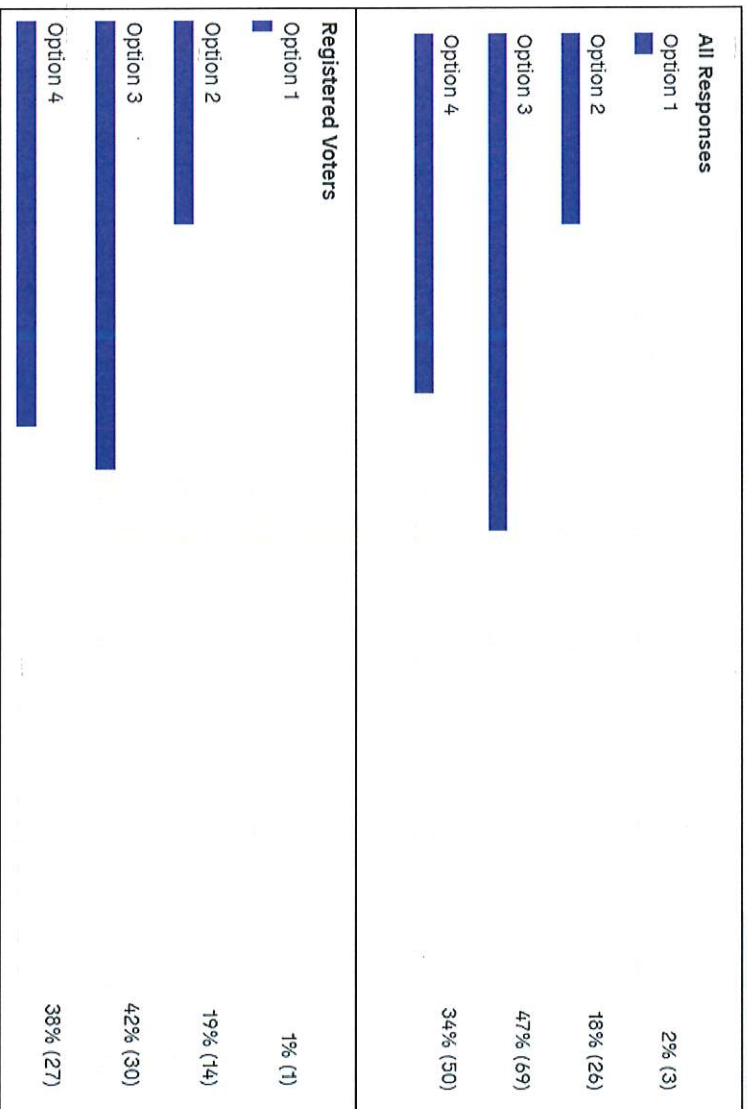
Verified
Responders

38%



Primary Piece Results

Options 3 and 4 received the most votes. Only 3 votes separate the verified responder's selection with many commenting on having a ship playground at Loggerhead.



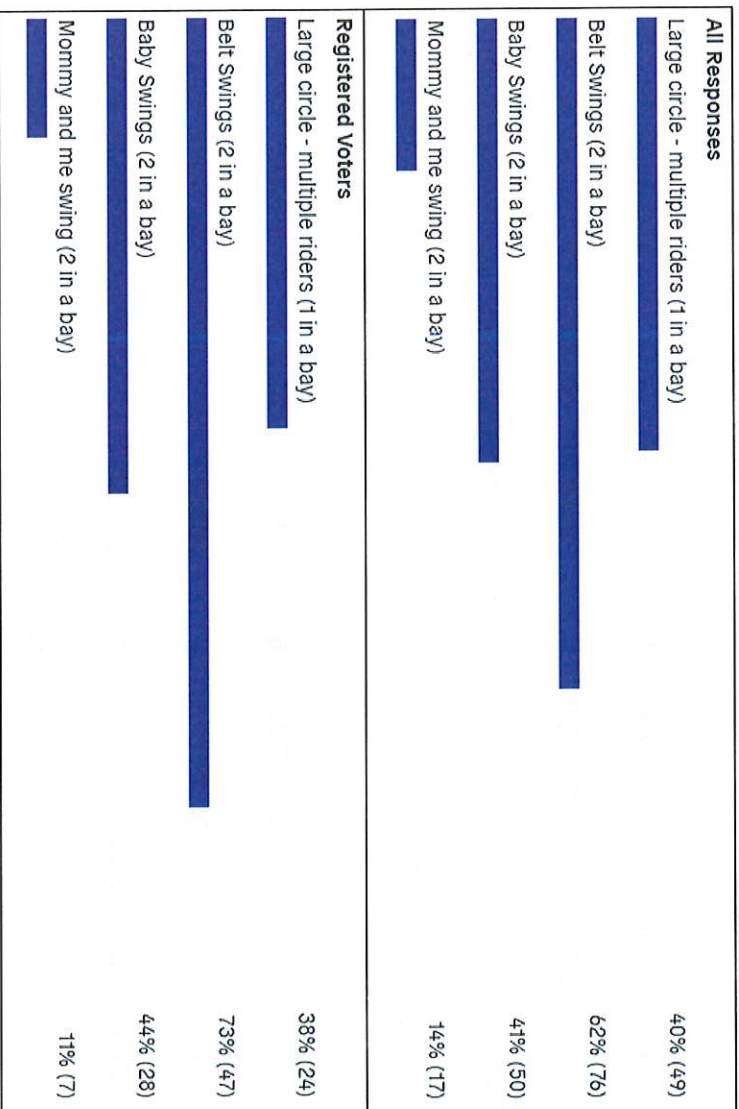
Primary Color Results

The natural tans and greens are the color options desired by both verified and non-verified responders.

All Responses	
The bright blue, reds and yellows	28% (31)
The lime and dark greens	14% (16)
The natural tans and greens	35% (38)
Bright orange and blue	8% (9)
Pastel blues accent green	15% (16)
Registered Voters	
The bright blue, reds and yellows	28% (16)
The lime and dark greens	12% (7)
The natural tans and greens	33% (19)
Bright orange and blue	10% (6)
Pastel blues accent green	18% (10)

Primary Swing Type Results

The two swing types most desired are belts swings (2 per bay) and baby swings (2 per bay), which is the current configuration at the playground now.





Recommendation

Given the budgeted dollar figure for this project, other boat playgrounds nearby, and the close voting result between Option 3 and 4, I recommend selecting Option 4 for the primary playground piece in tan and green with 2 belt swings and 2 baby swings.

I would remove the spring type accessory pieces (Spica and Seesaw) and replace them with 2 to 4 year-old play items but leave the Supernova.

Triple Tower - \$68,080

Triple Tower W/accessories and swings - \$105,066

Installation W/Turf - \$99,105.35

If Spica and Seesaw are removed \$7,580 is available for 2 to 4 year old items

Option 4 – Tan & Green

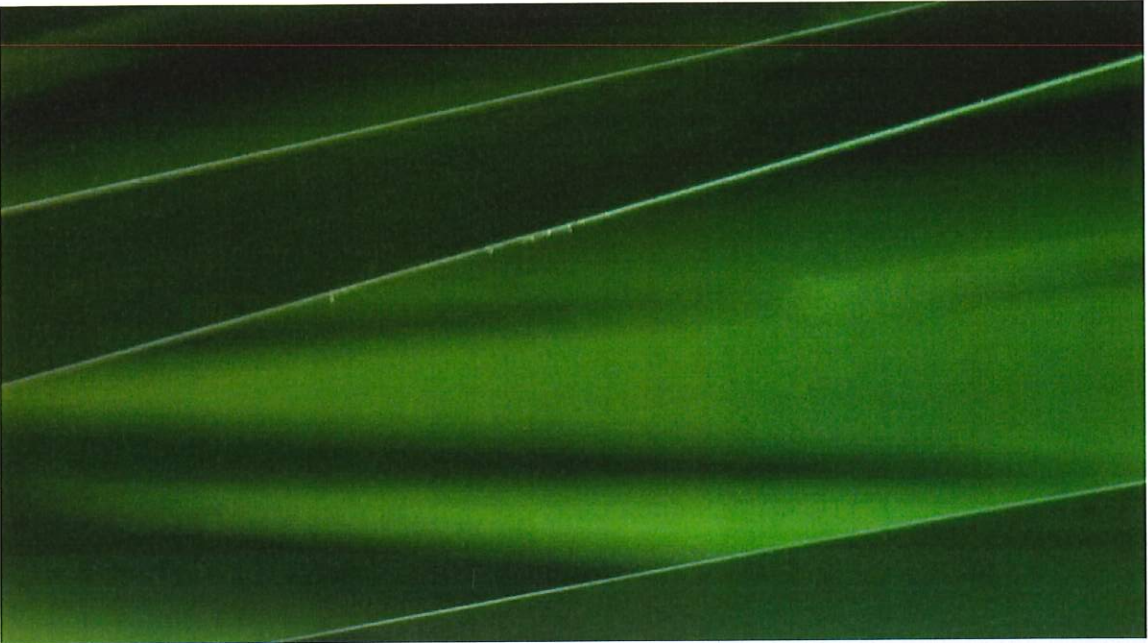


Option 4 – Tan & Green

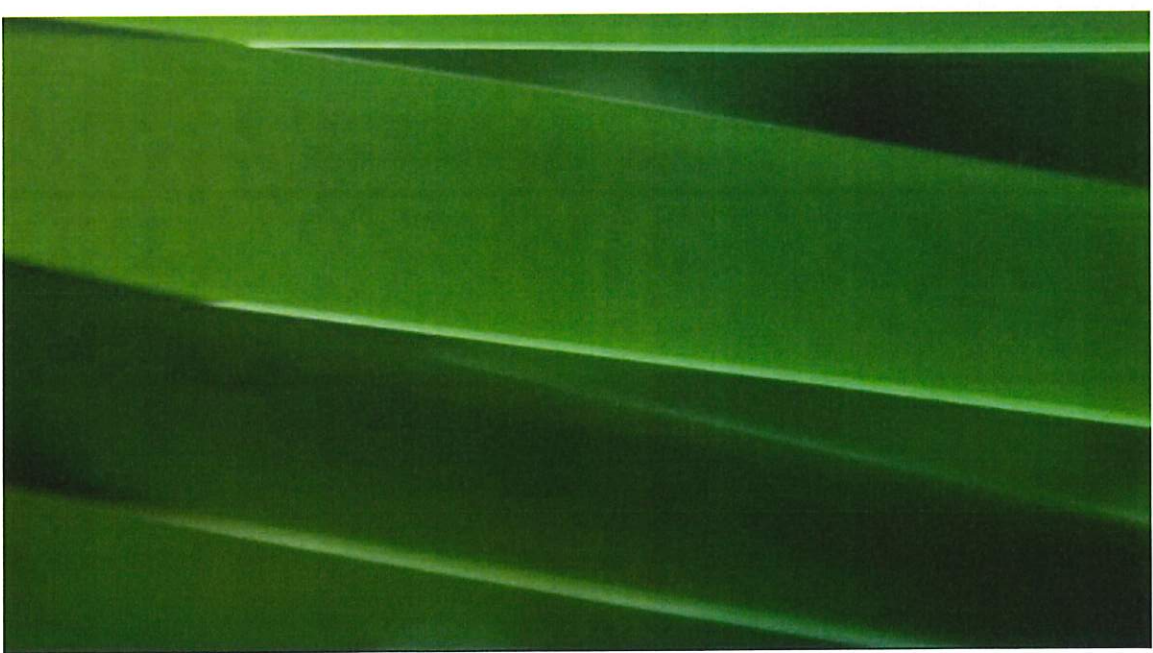


Option 4 – Tan & Green



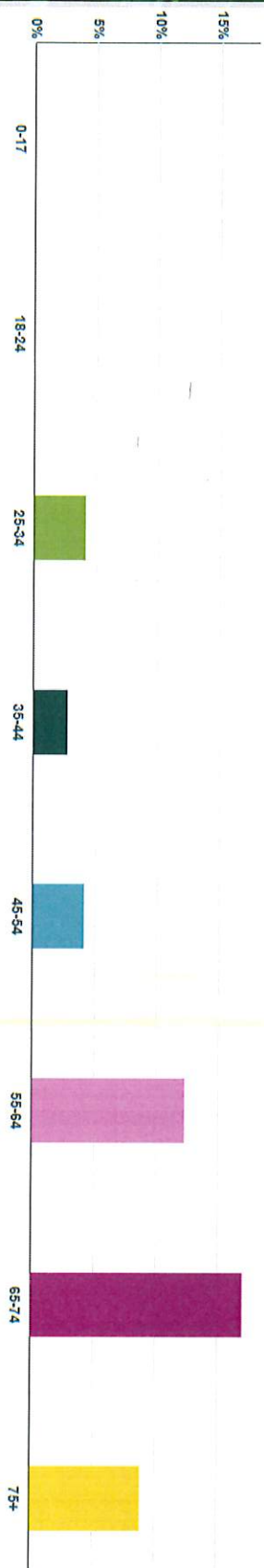


Thank you



Demographics

Age as reported by voter registration records  
51.4% unknown



Gender as reported by voter registration records  
51.4% unknown

