PUBLIC NOTICE
AGENDA
LOCKHART CITY COUNCIL
SPECIAL MEETING/WORKSHOP
WEDNESDAY, FEBRUARY 27, 2019
CLARK LIBRARY ANNEX-COUNCIL CHAMBERS
217 SOUTH MAIN STREET, 3rd FLOOR
LOCKHART, TEXAS

6:30 P.M.

1. CALL TO ORDER
Mayor Lew White

2. DISCUSSION/ACTION ITEMS
A. Discussion and/or action to consider implementing the Parks Master Plan.

3. ADJOURNMENT

I certify that the above notice of meeting was posted on the bulletin board in the Municipal Building, 308 West San Antonio Street, Lockhart, Texas, on the 22nd day of February 2019 at 10:00 a.m. I further certify that the following News Media was properly notified of this meeting as stated above: Lockhart Post-Register

Connie Constancio
Connie Constancio, TRMC
City Secretary
CITY OF LOCKHART

FEBRUARY 27, 2019

PARKS, RECREATION AND OPEN SPACE MASTER PLAN

“IMPLEMENTATION”
EXECUTIVE SUMMARY KEY PRIORITIES

- Walking, hiking, cycling, swimming, baseball were all popular recreation activities in which residents currently participate.
- Aquatics, trails and playgrounds were the most requested facilities.
- A high priority was placed on renovation of existing facilities.
- A recreation center was identified as a new facility desired for the community.
- Most survey participants determined a high priority should be placed on parks and trails within Lockhart.
EXECUTIVE STATEMENT

Generally, the parks in Lockhart are functional, yet many features and amenities are aging and in need of updates or replacement in order to meet current standards and expectations. At the direction of stakeholder input, focus of this plan was placed on bringing current parks up-to-date with new modern amenities.
PARKS INVENTORY AND CLASSIFICATIONS

The Lockhart Parks System - Table of Amenities

Functional Classification System

The parks are generally grouped into a functional classification system as follows:
- **Neighborhood Parks** - small parks focused on providing passive recreation opportunities within a 1/2 mile radius (3 minute walk);
- **Typical amenities include playgrounds, walking paths, picnic areas and open space**.
- **Community Parks** - larger parks that serve the entire community. These parks have an effective service area of 1 mile (3-5 minute drive) or more and provide amenities such as sports fields, aquatic facilities and event space.

<table>
<thead>
<tr>
<th>Park Facility Name</th>
<th>Location</th>
<th>Acres</th>
<th>Year Developed</th>
<th>Tennis Courts</th>
<th>Baseball</th>
<th>Outdoor Basketball</th>
<th>Indoor Basketball</th>
<th>Field Hockey</th>
<th>Picnic Area</th>
<th>Restrooms</th>
<th>Parking Space</th>
<th>Ice Rink</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown Park</td>
<td>Bannondale Avenue</td>
<td>1.90</td>
<td>1979</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>City Park</td>
<td>614 S. City Park Blvd</td>
<td>1.90</td>
<td>1973</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>James L. Lafitte</td>
<td>1917 Maple Street</td>
<td>2.22</td>
<td>1998</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Lions Park</td>
<td>S. Colorado Street</td>
<td>3.47</td>
<td>Mid-1960s</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Lockhart Sports</td>
<td>2232 E. Main St</td>
<td>0.23</td>
<td>1989</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Nuevo Sports Park</td>
<td>712 N. Rusthaven St.</td>
<td>0.53</td>
<td>1970</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Nixon Park</td>
<td>704 W. Ave A St</td>
<td>1.75</td>
<td>1965</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Orange Park</td>
<td>200 N. Commerce St</td>
<td>0.37</td>
<td>Late-1970s</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Comanche Ridge Park</td>
<td>140 FM 20</td>
<td>0.29</td>
<td>1940</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>14.45</td>
<td></td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Classification Legend:
- *C*: Community Park
- *N*: Neighborhood Park

(For more details on the classification and the table, please refer to the report.)
CITY PARK
COMMUNITY

- Dog Park
- Playscape
- Lighting Upgrades
- Roads
- Restroom Upgrades
- Security System
CITY PARK
DOG PARK
CITY PARK
PLAYSCAPES (INTEGRATED SHADE VS ADDED SHADE)

• Integrated Shade

• Added Shade
CITY PARK
PLAYSCAPE SURFACING/FALL MATERIAL (ENGINEERED WOOD FIBER VS POUR IN PLACE)

ENGINEERED WOOD FIBER
• $3.00 per square foot

POUR IN PLACE
• $20.00 per square foot
CITY PARK
LIGHTS AND ROAD UPGRADES

LIGHTING IMPROVEMENTS

ROAD REPAIR
CITY PARK
RESTROOM UPGRADES AND SECURITY SYSTEM
SPORTS COMPLEX
COMMUNITY

Upgrade Signs
Add Playscape
PECOS PARK
NEIGHBORHOOD

• Pavilion Upgrade
• Signs Upgrade
• Restroom Upgrade
• Bridge
PECOS PARK
BRIDGE

- This bridge will be more involved because it is going over a flowing creek vs ditches.
LAFLEUR SPORTS COMPLEX

- Playscape Cover
- Shade Structures
- Splash Pad
- Trees
LAFLEUR SPORTS COMPLEX
PLAYSCAPE COVER AND SHADE STRUCTURES
LAFLEUR SPORTS COMPLEX
SPLASH PAD
LAFLEUR SPORTS COMPLEX
TREES

- American Sycamore
- Coastal Live Oak
- Cedar Elm
- Montezuma Cypress
NUECES PARK
NEIGHBORHOOD

- Picnic Tables
- New Playscape
- Restroom Upgrade
- Bridge over ditch
- Signs
SANTOS ARREDONDO
NEIGHBORHOOD

- Signs Upgrade
- Playscape Cover
NAVARRO SPRINGS PARK
NEIGHBORHOOD

- Sign Upgrades
- Playscape Cover
- Trees
LION’S PARK
COMMUNITY

- New Playscape
- Replace Bridges
- Upgrade 9 Street Lights
- Covered Picnic Areas
LIONS PARK
BROCK CABIN/HISTORICAL PARK
LIONS PARK
BROCK CABIN SITE PLAN
LIONS PARK
HISTORICAL PLAYSCAPE OPTION
BRAUN PARK
NEIGHBORHOOD

• Replace Shade Screen
• Playscape Cover
• Trees
GRANT OPPORTUNITIES

- Actively seek out grant opportunities
- Allocated $200,000 for grant matching funds
COMMUNITY CONNECTIVITY TRAILS

GRANT THROUGH ST. DAVID’S FOUNDATION

• New Trail Systems
• Healthy Parks Initiative
• $250,000
• Additional Mile of Trails
# Proposed Park Improvements

Lockhart Parks Improvements and Associated Costs extracted from the Parks Recreation and Open Space Master Plan.
# 2015 CERTIFICATE OF OBLIGATION BUDGET

- Remaining Funds

## Series 2015 CO for Government Capital Improvement Projects

<table>
<thead>
<tr>
<th></th>
<th>Street Repairs</th>
<th>Parks</th>
<th>Public Safety</th>
<th>City Hall</th>
<th>Water</th>
<th>WasteWater</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Original Funding</strong></td>
<td>5,865,351</td>
<td>880,734</td>
<td>984,353</td>
<td>248,685</td>
<td>8,439,410</td>
<td>722,176</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td>3,517,300</td>
<td>84,993</td>
<td>507,938</td>
<td>8,369</td>
<td>1,007,341</td>
<td>514,189</td>
</tr>
<tr>
<td><strong>Remaining Funds</strong></td>
<td>2,348,051</td>
<td>795,741</td>
<td>476,415</td>
<td>240,316</td>
<td>7,432,069</td>
<td>207,987</td>
</tr>
<tr>
<td>Park</td>
<td>Improvements</td>
<td>Quantity</td>
<td>Unit Cost</td>
<td>Estimated Cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>----------------------------</td>
<td>----------</td>
<td>-------------</td>
<td>----------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>City Park</td>
<td>Playscape</td>
<td>1</td>
<td>$50,000.00</td>
<td>$50,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wayfinding</td>
<td>5</td>
<td>$200.00</td>
<td>$1,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Picnic Shelters</td>
<td>5</td>
<td>$5,000.00</td>
<td>$25,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pier Cover</td>
<td>1</td>
<td>$5,000.00</td>
<td>$5,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dog Park</td>
<td>1</td>
<td>$45,000.00</td>
<td>$45,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restroom Upgrade</td>
<td>2</td>
<td>$30,000.00</td>
<td>$60,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lighting Upgrades</td>
<td>40</td>
<td>$500.00</td>
<td>$20,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parking Lot Upgrade</td>
<td>1</td>
<td>$30,000.00</td>
<td>$30,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roads</td>
<td>1</td>
<td>$100,000.00</td>
<td>$100,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Security System</td>
<td>1</td>
<td>$50,000.00</td>
<td>$50,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sports Complex</td>
<td>Signs</td>
<td>1</td>
<td>$500.00</td>
<td>$500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Playscape</td>
<td>1</td>
<td>$50,000.00</td>
<td>$50,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pecos</td>
<td>Pavilion</td>
<td>1</td>
<td>$10,000.00</td>
<td>$10,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Signs</td>
<td>1</td>
<td>$500.00</td>
<td>$500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Update restrooms</td>
<td>1</td>
<td>$30,000.00</td>
<td>$30,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bridge</td>
<td>1</td>
<td>$63,500.00</td>
<td>$63,500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LaFleur Complex</td>
<td>Playscape Cover</td>
<td>1</td>
<td>$25,000.00</td>
<td>$25,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shade Structures</td>
<td>5</td>
<td>$25,000.00</td>
<td>$125,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Splash Pad</td>
<td>1</td>
<td>$100,000.00</td>
<td>$100,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Picnic Tables</td>
<td>5</td>
<td>$1,850.00</td>
<td>$9,250.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trees</td>
<td>20</td>
<td>$450.00</td>
<td>$9,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nueces</td>
<td>Picnic Tables</td>
<td>5</td>
<td>$1,200.00</td>
<td>$6,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>New Playscape</td>
<td>1</td>
<td>$50,000.00</td>
<td>$50,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restroom Upgrade</td>
<td>1</td>
<td>$30,000.00</td>
<td>$30,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upgrade Lighting</td>
<td>4</td>
<td>$500.00</td>
<td>$2,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bridge</td>
<td>1</td>
<td>$10,000.00</td>
<td>$10,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Signs</td>
<td>2</td>
<td>$500.00</td>
<td>$1,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Santos Arredondo</td>
<td>Signs/restroom</td>
<td>1</td>
<td>$500.00</td>
<td>$500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Playscape Cover</td>
<td>1</td>
<td>$25,000.00</td>
<td>$25,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Navarro Springs</td>
<td>Signage</td>
<td>1</td>
<td>$500.00</td>
<td>$500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>trees</td>
<td>10</td>
<td>$450.00</td>
<td>$4,500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Playscape Cover</td>
<td>1</td>
<td>$25,000.00</td>
<td>$25,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lions Park</td>
<td>New Playscape</td>
<td>1</td>
<td>$50,000.00</td>
<td>$50,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Replace Bridges</td>
<td>3</td>
<td>$10,000.00</td>
<td>$30,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upgrade Lights</td>
<td>9</td>
<td>$500.00</td>
<td>$4,500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Covered Picnic Areas</td>
<td>4</td>
<td>$25,000.00</td>
<td>$100,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Braun Park</td>
<td>Replace shade screen</td>
<td>1</td>
<td>$1,500.00</td>
<td>$1,500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Playsacape Cover</td>
<td>1</td>
<td>$25,000.00</td>
<td>$25,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trees</td>
<td>15</td>
<td>$450.00</td>
<td>$6,750.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senior Center</td>
<td>Building Upgrade</td>
<td>1</td>
<td>$3,000.00</td>
<td>$3,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grant Funds</td>
<td>Matching Grant Funds</td>
<td>1</td>
<td>$200,000.00</td>
<td>$200,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>-</strong></td>
<td></td>
<td><strong>$1,384,000.00</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONSTRUCTION DETAIL
Concrete or Asphalt Base

Loose Fill Material or Sand
Subgrade

Concrete or Asphalt Base Requirements

Slope:
1/4” per foot
Tolerance:
1/8” in 10 feet, No puddling
Finish:
light broom
Curing:
7 days prior to surfacing

Drainage:
2% pitch towards weep holes or breaks in concrete curb.
Drains:
recommended location on low-end wall or curb and outside high impact areas
Edge Preparation:
See Edge Detail

CONSTRUCTION DETAIL
Compacted Stone Base

Concrete Walkway or Curb
Compacted Subgrade

Compacted Stone Base Requirements

Stone types:
1/2” to 1” good compacting, permeable aggregate
Stone Gradation:
U.S. Sieve Percent Passing
1-1/2” 100
1” 90-100
3/4” 70-100
Tolerances:
3/8 inch in a 10 foot direction
1/4 inch in a 3 foot direction
Depth:
4” minimum

Enclosure:
Retainage curb needs to be base height plus thickness of poured in place surfacing.
Porosity:
Must maintain direct drainage
Drainage:
Perforated pipe or a similar system is acceptable for recommended sub-surface drainage.
Compaction:
90% compaction in stable condition
Playground Surface

The playground surface is very important to the playground user and the City of Austin Parks and Recreation Department. Safety, accessibility and functionality are the primary considerations when selecting a playground surface. More than ½ of the playground-related injuries result from falls. The main function of the playground surface is to absorb shock when a child falls. There are many different types of playground surfaces. The early surfaces of playgrounds were made of concrete. Throughout the years, surfaces also included:

- Engineered Wood Fiber (EWF)
- Poured-in-Place Rubber
- Indoor Foam Tiles
- Artificial Turf
- Grass/Dirt
- Asphalt
- Gravel (Pea)/Stones
- Sand
- Wood Chips/Bark Mulch
- Rubber Mulch

The Consumer Product Safety Commission states that every playground surface must be soft enough to meet ASTM F1292 (ASTM Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment) and ASTM F2075, the standards for cushioning falls. The Americans with Disabilities Act states that every new playground surface must be firm and stable enough to meet ASTM F1951, the standard for wheelchair accessibility.

Engineered Wood Fiber for Playground Surfaces

Engineered Wood Fiber (EWF) is the most popular manufactured surface that meets standards for safety and wheelchair accessibility. EWF is used on nearly ¾ of all playgrounds in the U.S. because of its high impact absorbing qualities, yet firm, slip resistant surface that allows for wheelchairs and strollers to traverse across it. (Sand and pea gravel are not as accessible). It is called “engineered,” because the wood is mechanically shredded into sizes and aspect ratios determined by a series of specified sieves, through which the final product must pass. In addition, the finished product must meet ASTM F2075. In use, the wood fibers knit together to form a mat that is springy enough to meet ASTM F1292 for impact attenuation, yet firm enough to meet ASTM F1951 for wheelchair access.

Engineered wood fiber is made from biodegradable virgin wood, rather than used wood such as recycled pallets. Used wood may contain staples and other foreign matter and should never be used for a playground surface. Engineered wood fiber should not be confused with wood chips or bark, which tends to be larger pieces of random shape.

http://www.ci.austin.tx.us/parks

The City of Austin is proud to comply with the Americans with Disabilities Act. If you require assistance for participation in our programs or use of our facilities, please call 974-6700
Playground Surfacing

Wood chips

Engineered Wood Fiber

Woodchips vs. Engineered Wood Fiber


11/15/2010
# Playground Surfacing

## Playground Surface Feature Comparison

<table>
<thead>
<tr>
<th>Surface Type</th>
<th>ASTM 1292 Protection</th>
<th>ADA Accessible</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineered Wood Fiber</td>
<td>Yes</td>
<td>Yes</td>
<td>▪ Low cost ($2-3 ft²)</td>
<td>▪ Tends to become compact/needs to be topped off every couple of years</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Able to decompose outside of playground</td>
<td></td>
</tr>
<tr>
<td>Poured-in-Place Rubber</td>
<td>Yes</td>
<td>Yes</td>
<td>▪ No containment barriers are usually necessary.</td>
<td>▪ High cost ($9-15 ft²)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Surfaces are accessible to wheelchairs and easy to walk on.</td>
<td>▪ Sun’s UV rays and power washing may cause colors to fade and degrade after a few years.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Displacement of materials is not an issue, so the protective ability of</td>
<td>▪ Not maintenance-free: removing debris/trash</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>these surfaces remains consistent even in high traffic areas.</td>
<td>▪ Longevity varies</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Surfaces require very little upkeep over time and are easy to clean.</td>
<td>▪ The area under the surface usually requires special preparation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Rubbish such as broken glass and other sharp objects are easily seen.</td>
<td>▪ Surfaces may require professional installation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Animals and insects are not attracted to the surface materials.</td>
<td>▪ Some surfaces may be damaged by frost.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Mold and fungus growth are not an issue.</td>
<td>▪ May be flammable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Easy to clean.</td>
<td>▪ Subject to vandalism (e.g., ignited, defaced, cut).</td>
</tr>
<tr>
<td>Gravel (Pea)/Stones</td>
<td>No</td>
<td>No</td>
<td>▪ Easy to purchase and install</td>
<td>▪ Medium cost</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Pea gravel will not crush and decompose.</td>
<td>▪ Pea gravel can be a challenge to walk on.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Mold and fungus growth are not generally an issue.</td>
<td>▪ The protective ability of pea gravel is decreased in rainy, humid, and freezing weather conditions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Animals and insects are less attracted to pea gravel.</td>
<td>▪ Pea gravel can be a falling danger if displaced from the playground area.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>▪ Pea gravel does not meet the requirements of the Americans with Disabilities Act for wheelchair accessibility.</td>
</tr>
<tr>
<td>Sand</td>
<td>No</td>
<td>No</td>
<td>▪ Low cost</td>
<td>▪ Medium cost</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Play sand will not crush and decompose.</td>
<td>▪ Wet sand-surface becomes hard and unyielding</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>▪ Mold and fungus growth are not generally an issue.</td>
<td>▪ Play sand can be a challenge to walk on.</td>
</tr>
</tbody>
</table>

11/15/2010
**Playground Surfacing**

<table>
<thead>
<tr>
<th>Surfacing Type</th>
<th>Replacement Needed</th>
<th>Mobility</th>
<th>Scraps/Scratches/Splinters</th>
<th>Animals &amp; Insects</th>
<th>Fungi/Mold</th>
<th>Mobility/Mobility - Material Moves</th>
<th>Risk of Fire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Chips or Bark Mulch</td>
<td>Unclear</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Low cost</td>
<td>Animals are less likely to soil wood chips and shredded bark mulch.</td>
<td>Wood chips and shredded bark mulch are aesthetically pleasing.</td>
<td>The protective ability of wood chips and shredded bark mulch is decreased in rainy, humid, and freezing weather conditions.</td>
<td>Over time, wood chips and shredded bark mulch will become crushed, compacted, and will decompose.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wood chips and shredded bark mulch are less abrasive than play sand.</td>
<td></td>
<td></td>
<td>Wood chips and shredded bark mulch can develop fungus and mold when wet.</td>
<td>Animals and insects are not attracted to wood chips and shredded bark mulch.</td>
</tr>
<tr>
<td>Rubber Mulch</td>
<td>Yes</td>
<td>Yes</td>
<td>Recycled rubber mulch does not generally need to be replaced or renewed each year.</td>
<td></td>
<td></td>
<td>Medium cost ($5-7 ft²)</td>
<td>Risk of fire - only a small number of such fires are reported each year, but they are apt to be extremely hot and may not respond to conventional fire-fighting equipment. When this occurs, the playground equipment above the surface may be totally destroyed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Rubber mulch tends to be cleaner and less apt than other loose-fill materials to cause dirty clothing, hands, and shoes during active play.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Does not cause scrapes, scratches, or splinters from falls.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Animals and insects are not attracted to rubber mulch.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mold and fungus growth are not an issue.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

http://www.backyardcity.com/Articles/Playing-It-Safe-Part2.htm
http://www.kidsource.com/CPSC/playground_surface.html

11/15/2010