South Park Flooding Recovery Incident

Public Safety and Human Services Committee

January 10, 2023
OEM, SPU, HSD
Office of Emergency Management

- Flooding in South Park started on December 27th
- Literally perfect storm; very low pressure, extreme King Tide, heavy rain resulting in Duwamish River overtopping its banks
- 49 properties – homes and businesses impacted
- 14 agencies involved
  - City departments & Community Based Orgs (CBOs)
- Urban flooding response, then recovery effort
Office of Emergency Management

• Now assisting with on-scene project management for recovery efforts
  • OEM does not usually work on-scene
  • Recovery focus makes this incident unique
• Community connections with Khmer and Villa Comunitaria
• Working with King County & State Emergency Management organizations to find possible funding opportunities
Seattle Public Utilities Response

Pre-storm Preparedness

- Wet Weather Preparedness
- Prepared for King Tides: staged resources before Dec. 27 storm
- Just Health Action contract for community preparedness
- Installed grinder pumps and backflow preventers in high impact homes
- Sandbag stations in community

Dec 27, 2022 Storm Event

- Exceeded predicted intensity from NOAA/NWS and SPU's readiness preparation

SPU initiated the response

- Infrastructure assessment, sandbags
- Emergency housing for 15 families
- Engaged OEM, worked with Mayor's office leadership
- Significant coordination with City depts, community partners
- Coordination trailer, meeting tents, portable toilets, sinks, shower, laundry
- Clean City solid waste/debris collection/sharps collection kits
- In-home clean-up
- Media Response
Preparing for January King Tide

- Next King Tides expected last week of January
- Incident Command Structure in place
- Predicted tides: 10.6-10.7’ (Dec 27 water level was 12.8’)
- SPU identifying riverside bank low points and sandbagging opportunities
- Install berm at SPU pump station site prior to next King Tide
- SPU communication with residents and businesses on preparation strategies
Preparing for Sea Level Rise

Planning

Duwamish Valley Resilience District

- Grant-funded OSE/OPCD/SPU sea level rise adaptation planning with South Park and Georgetown community members

SPU sea level rise adaptation planning (pictured on right)

- Future property acquisition
- Physical infrastructure construction to prevent future shoreline flooding

Funding Opportunities

Federal

- US Army Corps of Engineers
  - 2017 Corps-SPU Planning Study
  - New Start Program
- BRIC Grant

King County Flood Control District
## Key SPU and Partner Actions: To-Date and Future

<table>
<thead>
<tr>
<th>Project</th>
<th>Lead</th>
<th>Funding</th>
<th>Complete/ 2023</th>
<th>2024</th>
<th>2025</th>
<th>2026</th>
<th>2027</th>
<th>2028</th>
<th>2029</th>
<th>2030+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prelim South Park CBA/ Flood Risk Management Study</td>
<td>US Army Corps of Engineers</td>
<td>USACE/SPU</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prelim Sea Level Rise (SLR) Adaptation Strategy</td>
<td>Jacobs</td>
<td>SPU</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stormwater Drainage Improvements, Phase 1</td>
<td>SPU</td>
<td>SPU/SDOT</td>
<td>Pump Station, Drainage + Roadway Improvements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resilience District: SLR Adaptation/Community Capacity/Funding</td>
<td>OSE/OPCD/SPU</td>
<td>Robert Wood Johnson Foundation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ongoing Operational Readiness</td>
<td>SPU</td>
<td>SPU</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stormwater Drainage Improvements, Phase 2 (additional roadway improvements)</td>
<td>SPU, partner with SDOT</td>
<td>Possible KC Flood Control District, federal transportation funding</td>
<td>Currently in options analysis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLR Infrastructure - Planning &amp; Prelim Design</td>
<td>OPCD/SPU</td>
<td>FEMA BRIC (Local match required)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLR Infrastructure - Design</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLR Infrastructure - Permitting</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLR Infrastructure - Construction</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Ongoing Operational Readiness is marked as ongoing, and various projects have different timelines ranging from 2023 to 2030+.
SPU Next Steps

• Community Meetings:
  • Open House and community discussion last Saturday to support impacted residents
  • Late Jan/early Feb – community meeting on future investments and timeframes

• Next King Tide events week of January 23rd – ongoing preparedness work

• Community recovery - ongoing

• Community SLR resilience planning and action
Human Service Department Response

**Role:** HSD is responsible for the coordination of the City’s Emergency Support Function 6 (ESF #6) Mass Care, Housing, and Human Services

**HSD Response:**
- Regular coordination meetings with Community-Based Organizations (CBOs) who are taking the lead on culturally appropriate and in-language service for impacted communities
- Utilizing ongoing HSD programs/contracts and invested $35,000 into new emergency contracts for case management and need response
- Coordinating with CBOs and American Red Cross on meeting non-shelter needs including:
  - Medical support
  - Transportation
  - Food
  - Primary school coordination
  - Pet care
  - Utility Discount Program
HSD Response

Thank you to the CBO's supporting the response.

HSD’s guiding partnership principles with Community Based Organizations (CBOs)

• Ensuring all impacted households receive a check-up every 24 to 48 hours
• Assigning unassigned families to a culturally and linguistically appropriate CBO
• Ensuring impacted families have a housing option and food option
• Ensuring timely and accurate sharing of information to CBOs, to community members and to city departments

Work ahead

• Property owners will determine safe return per property
• Continue offering housing and need option to support transitions
Summary

• Recovery efforts involved multiple departments and agencies
• Engagement and interaction with Community Based Organizations (CBOs) critical
• Ongoing operations
  • After Action Report and Improvement Plan to be developed once operations have concluded.