



Operations Update Storm Events of Summer and Median Cleaning

Streets and Maintenance Department

1. Overview of Storm Event
2. Plan for Median Cleaning
3. Quantified Response To Date
4. Storm Related Photos

Overview of 2021 Summer Storm Events



- The Streets and Maintenance Department has been working on issues associated with monsoon rains since late June of 2021; an average significant weather event it can take 30-60 days to clean up
- Beginning with this first event, and continuing with each subsequent rain event after, the department has been operating in a weather response mode for 12 weeks
- In Public Works, during a weather response the safety of the public is the first priority followed by protecting our infrastructure
- The department had to prioritize tasks associated with the weather events over normal maintenance
 - Primary storm recovery tasks include removal of obstructions in the right of way caused by washed out debris, extracting standing water, scouting infrastructure for damage (the public assists with this), and securing any potentially hazardous roads to prevent accidents
 - This also includes pot hole repair, repair of concrete elements in the right of way, sweeping to collect residual debris collected by removal crews (loaders and dump trucks), and herbicide spraying and weed clean up

Overview of 2021 Summer Storm Events



- Under normal conditions there is a median cleaning team in each of the five street maintenance corrals that clean medians within that geographical area on a rotating basis – normally bi weekly
- We have not been able to follow this practice over the past few months when all employees in the Street Maintenance section were diverted towards tasks associated with the storm clean up
- Over the past two weeks we have made good progress on clean up efforts and have refocused on medians
 - In-house crews have been applying herbicide in medians, curbs, gutters Citywide
 - Contracted crews have been applying herbicide in doublefront lots and alleys Citywide
 - We have secured two informal median cleaning contracts to help us address major problems
 - Contractor has started on Montana from Trowbridge to Airway
 - Another contractor completed most of Mesa and has moved to Resler

Plan For Medians and Weeds next 30 Days



- Continue to utilizing outside contractors to help us catch up on **median cleaning**
- Continue **aggressive herbicide program** on street ROW though both our two in-house spraying and contractor
- Normally cleanups are scheduled two weeks after spraying in order to allow sufficient time for effective vegetation kill
 - This time interval produces best results
 - Multiple herbicide applications are often required because continued rain promotes weed seed germination
- Median crews are working six days a week; on weekends these teams are expanded to include additional personnel from other corrals and department divisions

Medians Sprayed for Herbicide in recent two weeks



Fort Boulevard medians
Van Buren medians
Monroe medians
Yandell median
Transmountain Parkways
Rich mean median parkways
Viscount medians parkways
Montwood medians parkways
Hawkins medians
McRae medians
Yarbrough medians
Global reach medians parkways
George Dieter medians parkways
Ralph Seitsinger parkways

Montana and airway median
Sunglow medians
Eastbrook parkways
Mark Arviso parkways
Andrew Wiseman parkways
Hueco Valley medians
Rojas medians
Loma Verde medians
Paseo Del Este medians
Edgemere parkways
Mike Price parkways
Tim Foster parkways



Streets and Maintenance Department - Quantified Storm Recovery Efforts

- For every major rain event we create a project in CityWorks to track all associated departmental work orders to a project which accumulates the many work order costs
- Automated work order costs are broken down by personnel, materials, equipment use, as well as associated contracted work;
- Costs include the combined efforts of **Street Maintenance, Facility Maintenance, and Parkland Maintenance** over this monsoon period accounting for the time and effort on the clean up tasks

Rain Storm 6-27-21	\$161,751
Rain Storm 7-11-21	\$65,983
Rain Storm 7-18-21	\$142,771
*Rain Storm 8-12-21	<u>\$279,132</u>
	\$649,638

*as of 9-8-21, there are some work orders still to be processed

- Cubic Yards of debris removal – **6,273**
- Water Removal Hours – **111**
- Curb miles of storm clean up sweeping – **1,283**
- LF of herbicide spraying – in-house crews only – **194,780**
- Pothole work orders resulting from storm event – **6,807**



Streets and Maintenance Department - Quantified Storm Recovery Efforts

Resurfacing and other right of way repairs resulting from the Storm events

Completed Work – Costs expended to date on repairs are \$264,378

Atlas – Atlas at Gateway North

Buffalo Soldier – Buffalo Solider to Bridge abutment on Edgemere

Festival – Festival at Mesa

Fort Blvd– Dead End to Alabama

Benson – Minor paving and curb/gutter repair at Benson/Arlington

Tony Lama – Gateway to Hawkins –damages sustained in the July 3 storm

Vista Del Sol – at Bodega - Repaired washed out curb/gutter - damages sustained in the July 3 storm

Pending Work – Estimated at between \$120,000 to \$150,000

Wickham – Byron to Alabama – paving to be completed by Sept 10

Trawood - Minor paving and curb/gutter repair – planned for week of Sept 13

Market – Minor paving and curb/gutter repair - planned for week of Sept 13

Police Academy – Minor paving at entrance – Planned for week of Sept 20

McKelligan Canyon Road – Road base, paving and cleaning up washouts – TBD

Reviewing damages to concrete elements and parkways Citywide





Facility Issues During Storm Events

- Safety and protecting our assets the primary concern of the Facilities division during a rain event
- During an event crews are dispatched to checking roofs for leaks, checking roof drains, checking other drains within the property such a parking lot drains, and check for property perimeter damage
- Most serious facility issues during the summer were:
 - In the early July event we had **minor penetrations** at **52 facilities** that required immediate repairs
 - A roofing team was assembled to work on repairing roof leaks – working weekends and after workday hours
 - Team consists of employees from several department divisions
 - There are problems in the secured parking lot of the **Northeast Regional Command** that caused water to penetrate into the building and cause damage
 - We are working with CID on a parking lot solution



Byron St. and Wickham St. at Logan Park



Atlas at Gateway



Wickam at Dead End



Fort



Alabama & Memphis



Wyoming WB, btw Piedras & Cotton



1411 Arizona



Hamilton



Festival



McKelligon Canyon Road



Pacific Park



Wilderness Park Trails



Jan Sumrall TH



Police Facilities



Mission

Deliver exceptional services to support a high quality of life and place for our community

Values

Integrity, **R**espect, **E**xcellence,
Accountability, **P**eople

Vision

Develop a vibrant regional economy, safe and beautiful neighborhoods and exceptional recreational, cultural and educational opportunities powered by a high performing government