

City of Las Vegas

LWWAC Annual Update
April 10, 2018

**WELCOME TO
LAS VEGAS**





Water Pollution Control Facility

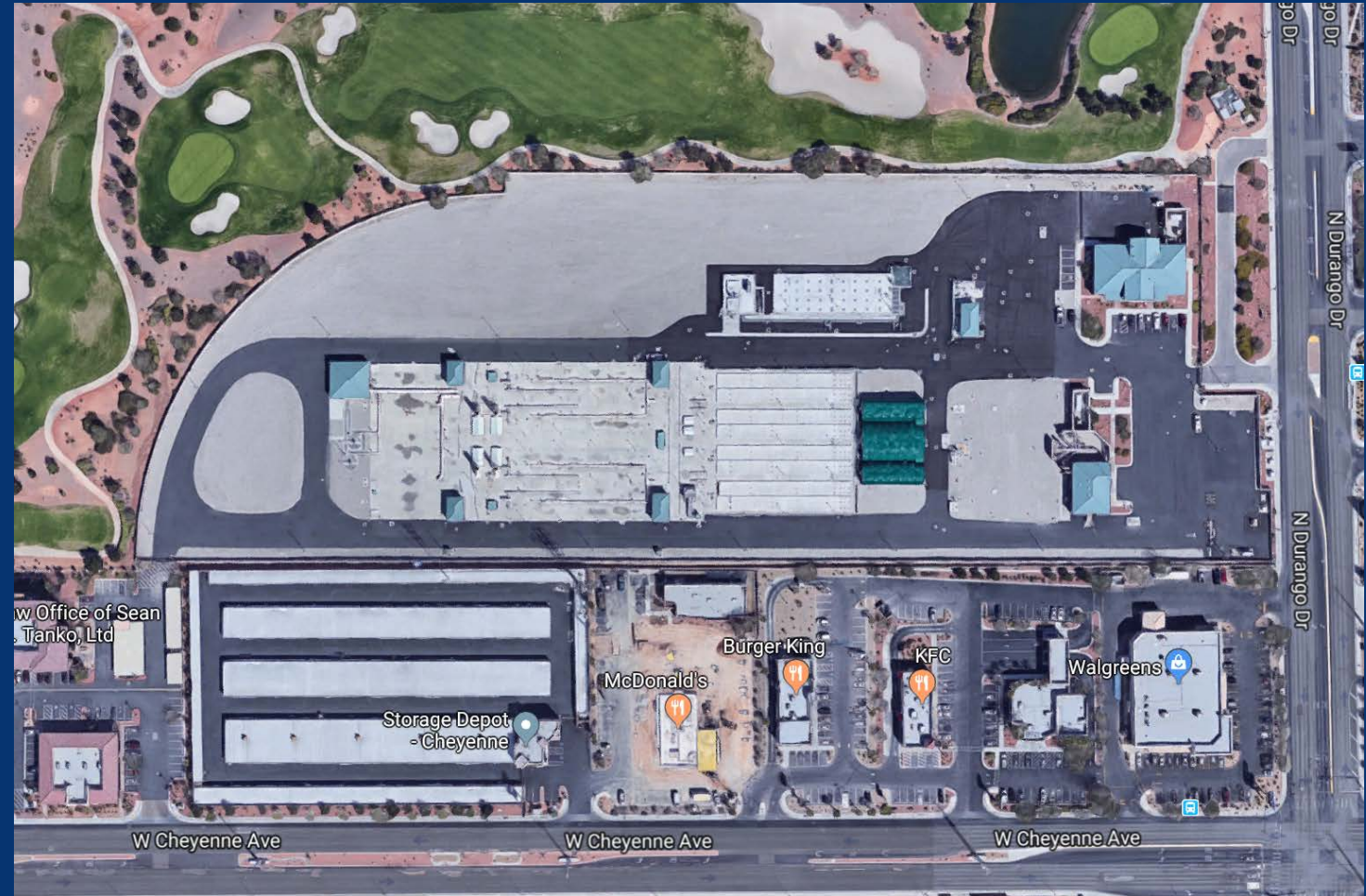
- 43 MGD Average
- 2017 - 520 MG Reuse (3 Golf Courses)
 - 3 MW Solar PV
- 726 SCFM Average biogas production (with FOG addition to 4 digesters)
- Current RFP for 30% sludge hauling has 3 interested parties





Durango Hills Water Resource Center

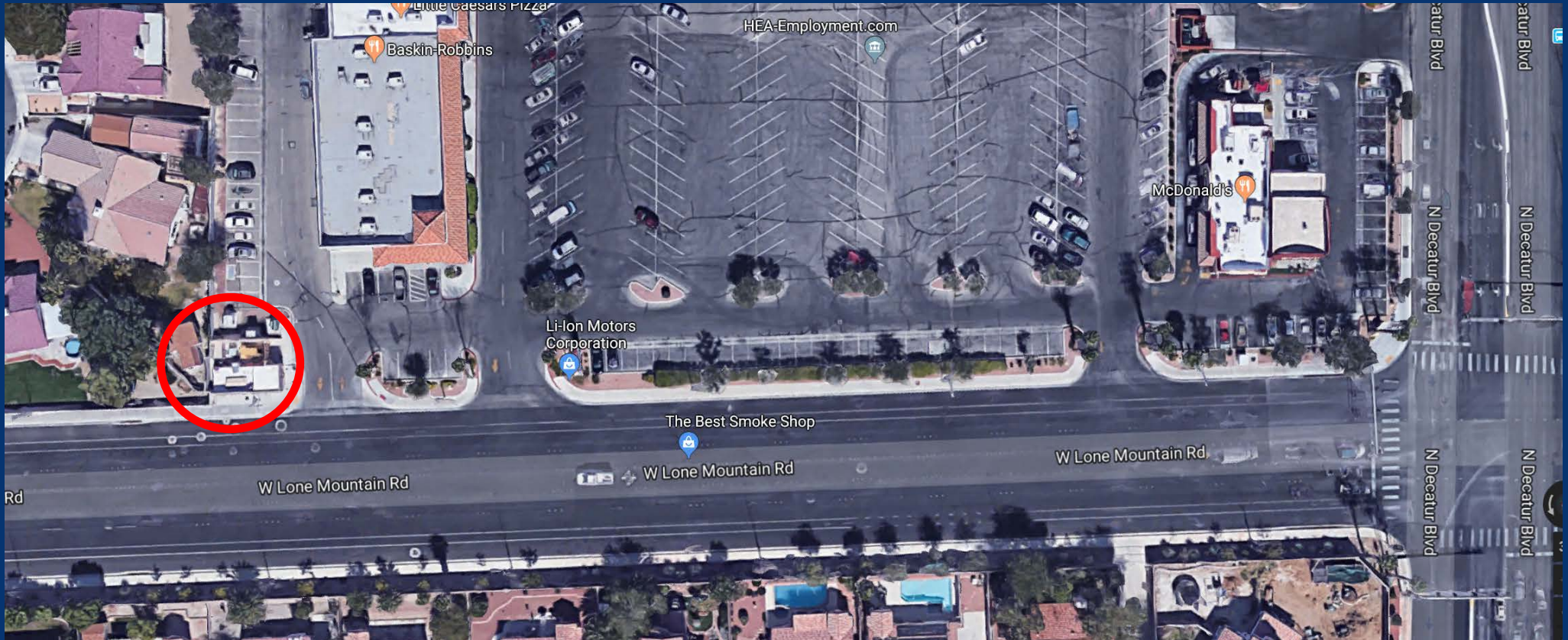
- 3.6 Influent MGD Average
- Current rehab project for chlorination improvements, foul air treatment, non-potable water, etc.





Lone Mountain Lift Station

- Just under 1 MGD Average
- Recent valve replacement project
- Current project to replace aging emergency power generator



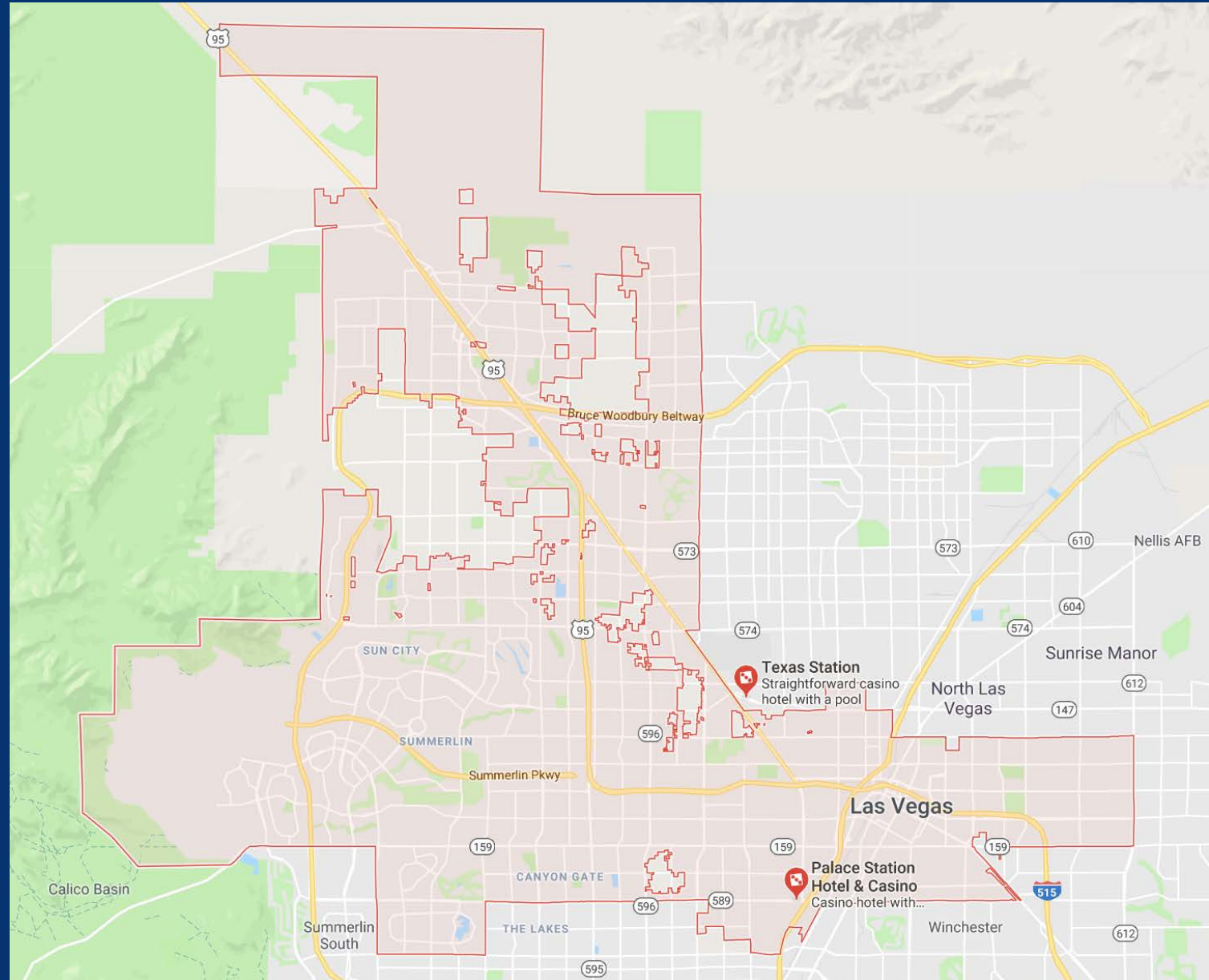


Collection System

- 1,798 Miles of pipeline (8-inch to 104-inch)
 - 42,000+ Manholes

2017 Accomplishments

- 10.5 Miles new lines installed
- 147 Miles of lines assessed
- 3,058 Manholes assessed
- 44 Miles line rehabilitation
- 705 Manholes rehabilitated





Capital Improvement Plan

Over \$205M of improvements identified in the next 5 years:

\$96M Collection System Improvements

- Rehabilitation of existing infrastructure (\$67M)
- Capacity/Expansion (\$29M)

\$109M of treatment improvements:

- Rehabilitation of existing infrastructure (\$79M)
- Capacity/Expansion (\$30M)





Renewable Energy Study

Full implementation of FOG and food waste to all 12 digesters

1. Utilize biogas onsite with natural gas flex fuel engines
2. Fully clean biogas and inject into Southwest Gas pipeline
3. CNG production for vehicle fuel (Silver State Disposal fleet or RTC Bus System)





Current Projects

Digester Rehabilitation



Screenings Handling



Reuse Pipeline





Wash-Related Project

Dechlorination Reliability



Redundant Dechlorination Monitoring



Sodium Bisulfite Mixing



Redundant Sodium Bisulfite Injection



Questions?

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