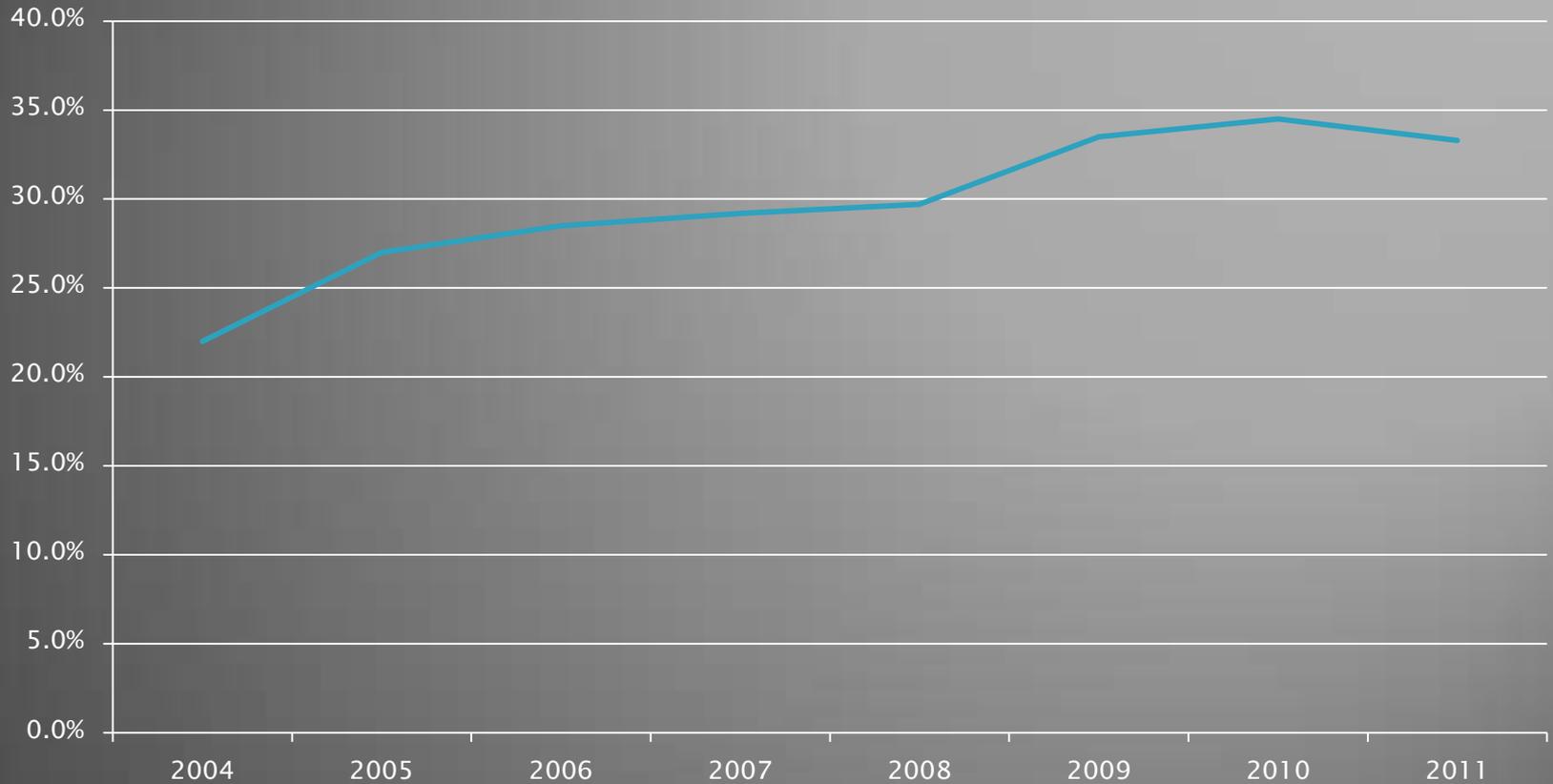


City of Walla Walla



Non-Revenue Water Statistics



2010 – 34.4% (-1,185 MG)

2011 – 33.3% (-1,119 MG)

Pilot Study Area



Pilot Study Goals

- ▶ Reduce non-revenue water to <10%
- ▶ Evaluate leak detection procedures and equipment
- ▶ Evaluate meter accuracy
- ▶ Eliminate utility billing software from the equation

Leak Detection

Procedure

- ▶ Leak log the system overnight
- ▶ Correlate the following day

Equipment

- ▶ Electronic Listening
- ▶ Electronic Correlator
- ▶ Loggers

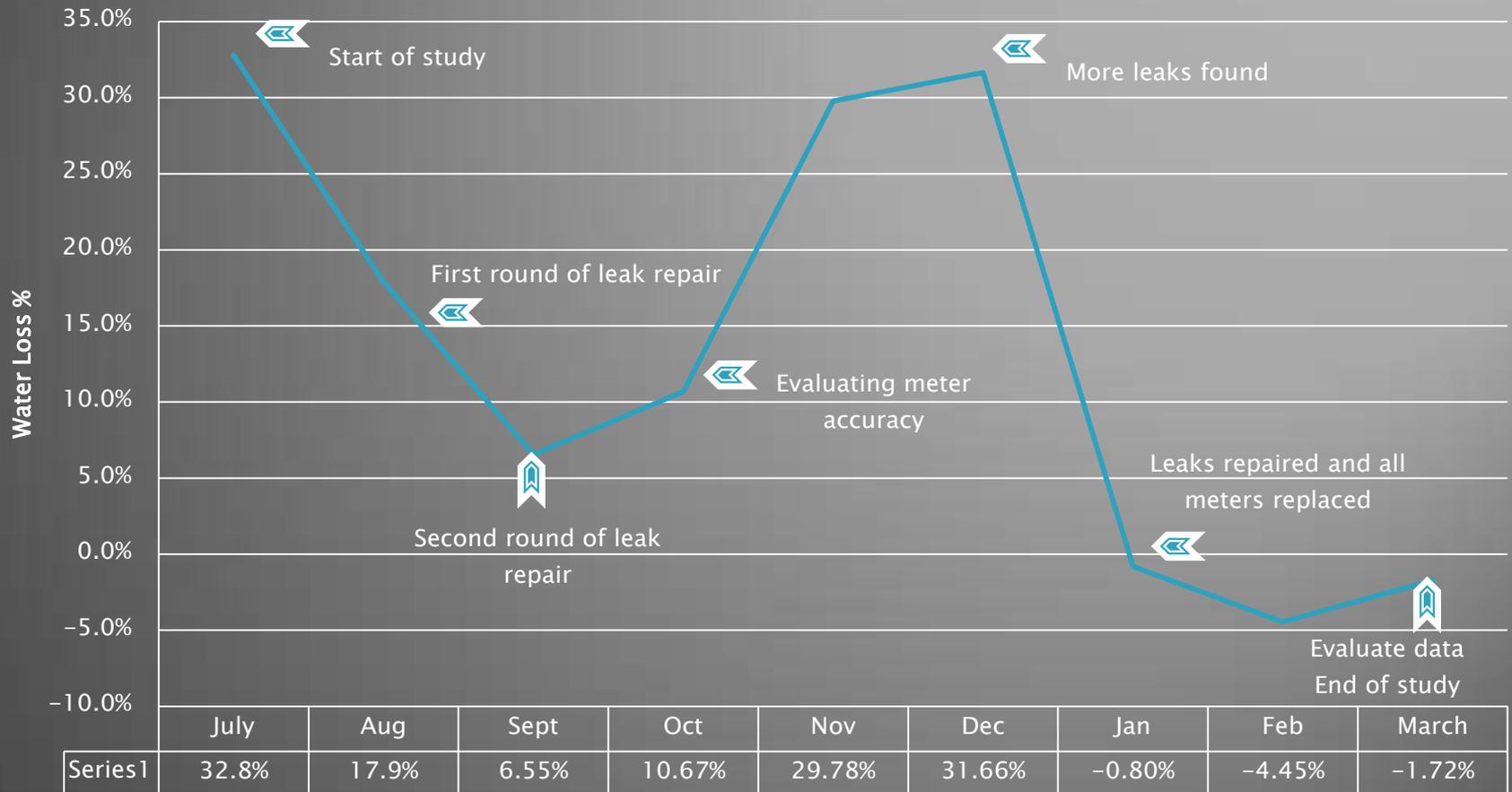
Meter Testing

- ▶ Test existing $\frac{3}{4}$ " & 1" meters for accuracy
- ▶ Evaluate new meter technology



Pilot Study Results

Unaccounted For Water



Leak Detection City Wide

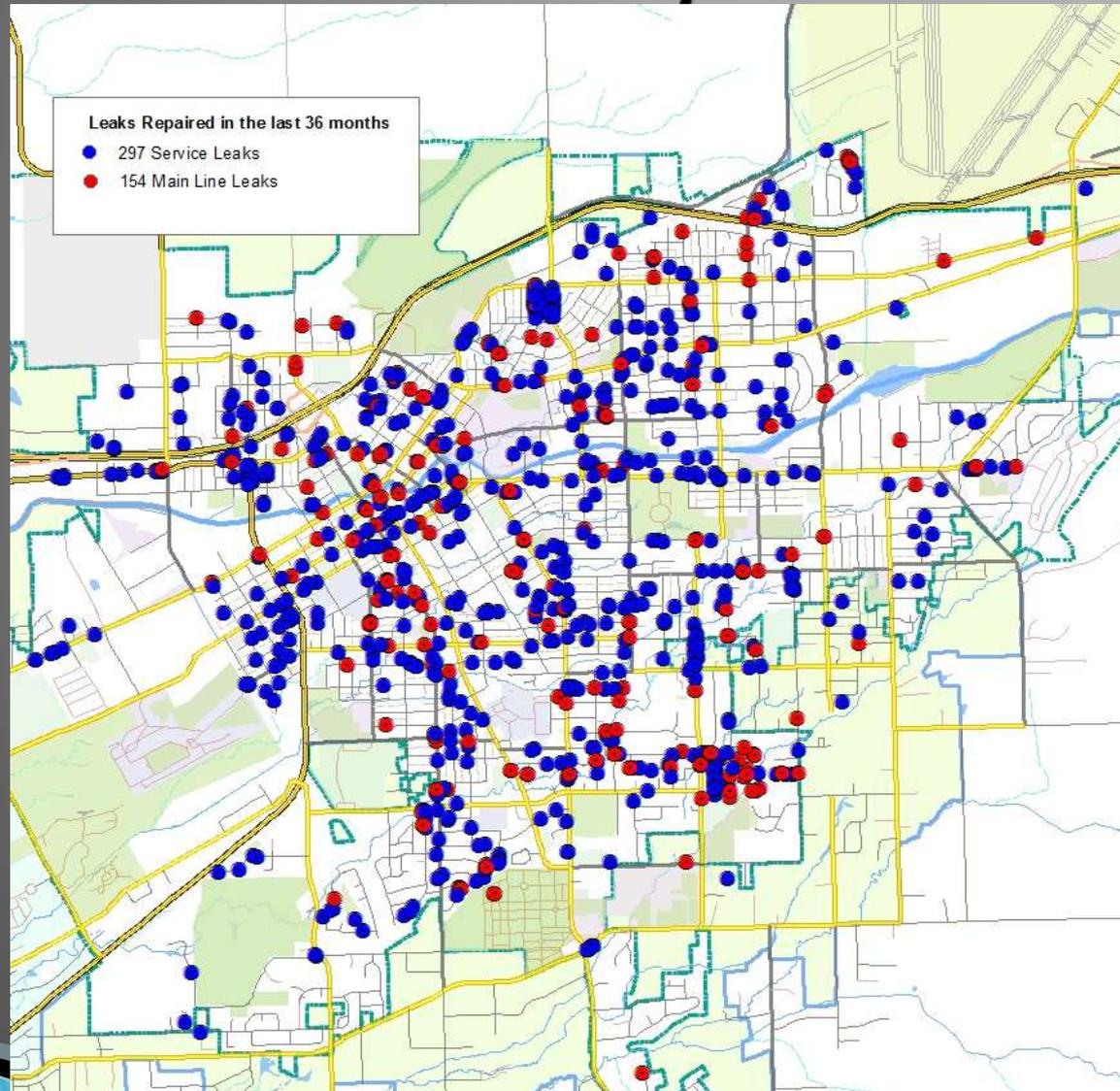
Contractor

- ▶ Focus on steel main line
- ▶ Hands-on training
- ▶ High production for minimal cost

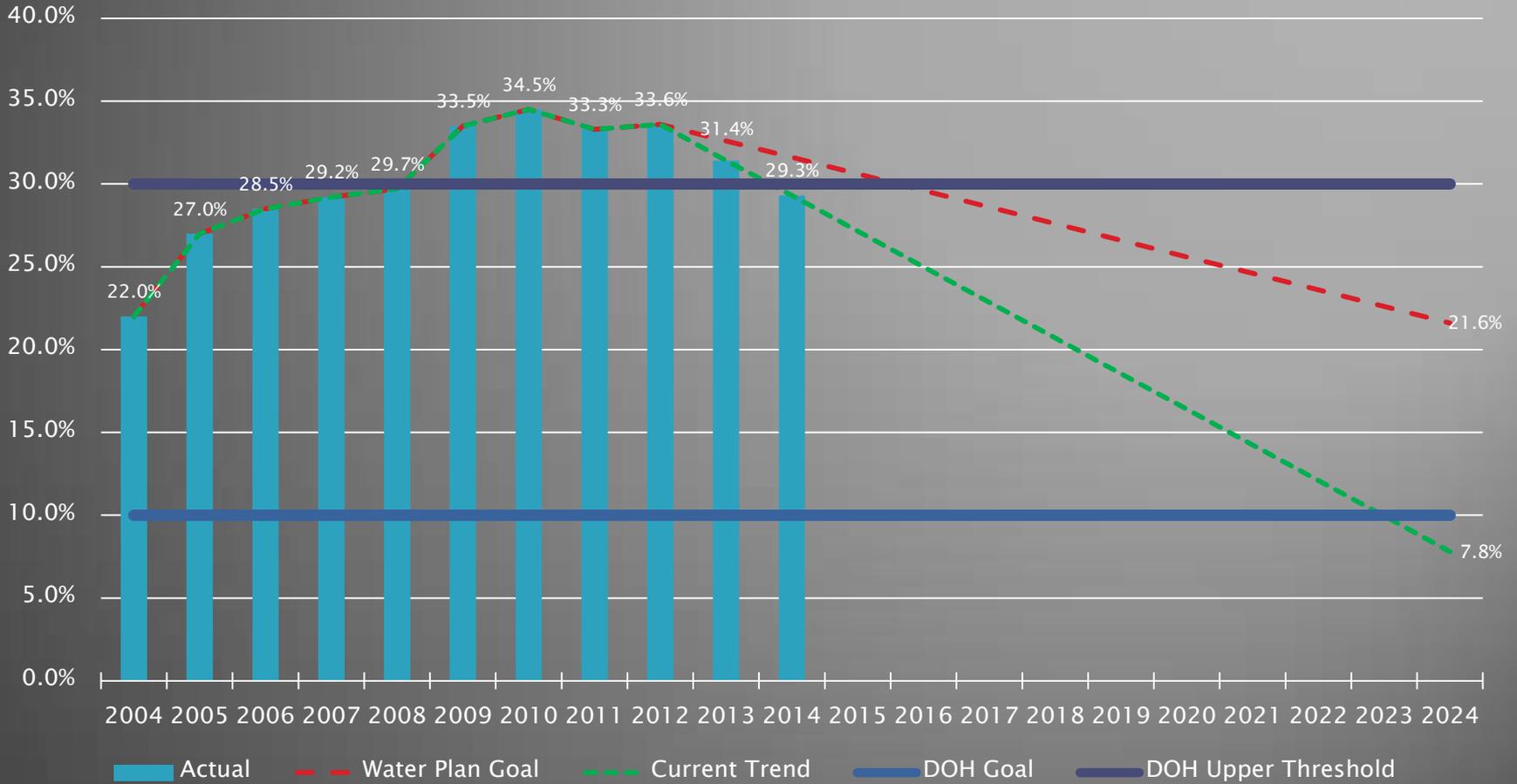
In-house

- ▶ Focus on Ductile main line
- ▶ In-depth service line detection
- ▶ Day-to-day operation

Leak Repair

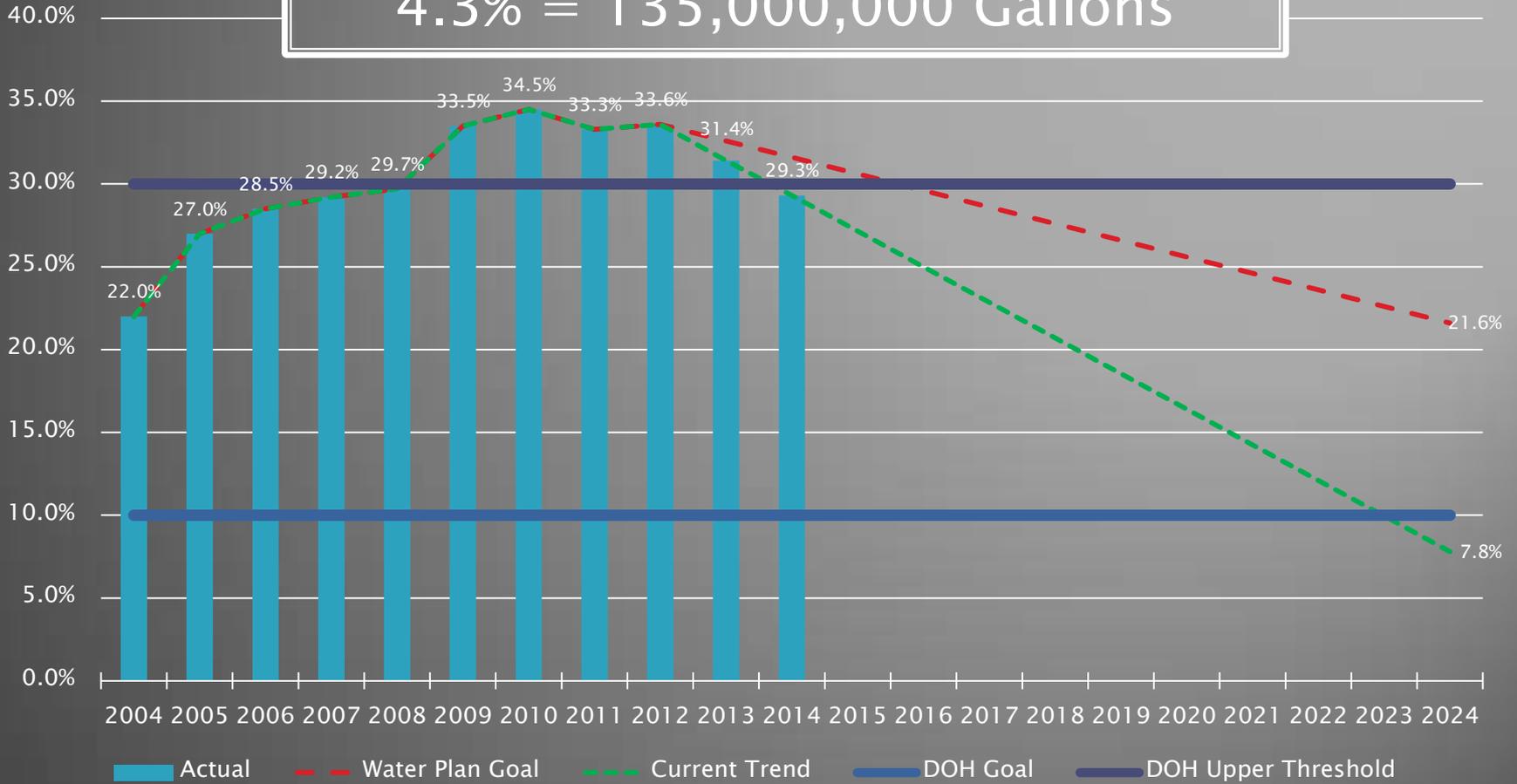


Non-Revenue Water Trend



Non-Revenue Water Trend

4.3% = 135,000,000 Gallons



Summary

- ▶ Leak detection in-house and by contract
- ▶ Leak repair in a timely manner
- ▶ Large meter testing and replacement
- ▶ Evaluating AMI system and residential meter replacement
- ▶ Infrastructure replacement program
- ▶ Capital replacement program
- ▶ Data collection and asset management



Appreciation + Respect + Recognition =
Dedicated and Hard Working Front Line Staff