

Define

- Bureau of Pollution Control and Prevention (BPCP)
 - Investigates Air, Water, and Soil Pollution Complaints
 - Field investigations; Air, Water, and Soil Samples; Permit Inspection
 - 5 Investigators, 3 Administrative Associates, 1 Supervisor
 - Workload: complaint response, area surveillance, complaint follow up,
 state mandated hazardous site audits, community outreach
- BPCP does not have the capacity to fulfill all obligations
 - Follow ups, surveillances, training, and community outreach were being neglected
 - Poor response to off hour complaints
- Our goal was to increase capacity by eliminating waste, and thus increasing quality and quantity of outputs by BPCP

Define: Observations

- Needs additional equipment; investigators often have to go without
- Variance in investigation protocol and experience
 - Some investigators miss what others catch
- Significant driving time
 - Often more than 45 minutes between locations; Average of about 30 minutes
- Investigators fighting Lagan at times
 - Lagan incorrectly setting due dates
 - Investigators manually entering data in "other comments" section
 - Only one type of complaint available
 - Have to return to office for anything involving Lagan

Define: Observations

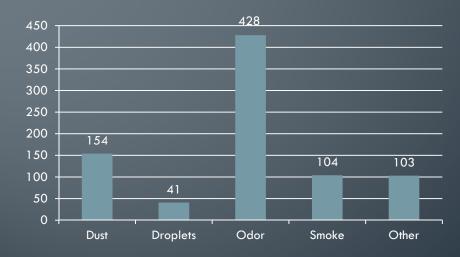
- Tracking in-progress investigations very difficult
 - Information just kept at investigator's desk
- Too much paperwork!
 - Investigators print out multiple copies of electronically accessible reports
 - Administrative Assistants spending large parts of their day either printing forms or filing copies of permits and reports

Measure

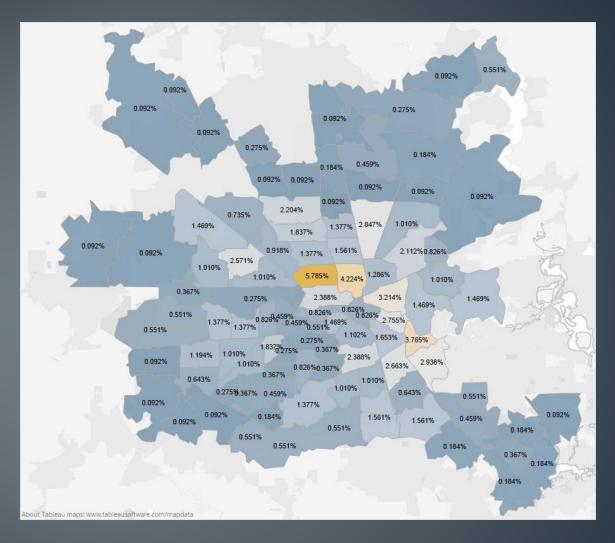
- 311 Lagan Reports
 - Length of Case; Case Volume; Type; Location
- Water complaints: 10% of total complaints; Soil: 3-5%.
 - Not in Lagan
- 660 air complaints/year
 - Average time to close: 21 days
 - Value Add Time: 1 3.5 hours
 - Takt Time: 3.04 Hours/Complaint
 - 8 hour work day
 - 250 working day/year

Measure

- 599 out of 660 air complaints in 2012 between 7am and 8pm
 - Only 51 complaints on the weekend
- 65% of complaints involved odor; 23% involved dust.
- Most complaints require around 2 follow ups
 - Checking permits, ensuring compliance, or later surveillance
- Additional Investigations Mandated by State



Measure

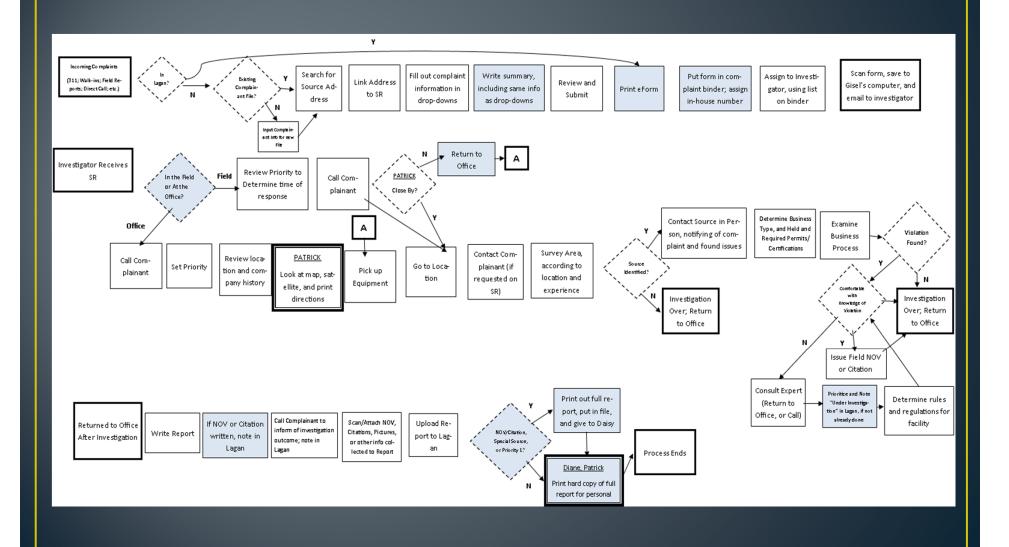


- Breakdown of Air Complaints by Zip Code
 - Used to create territories

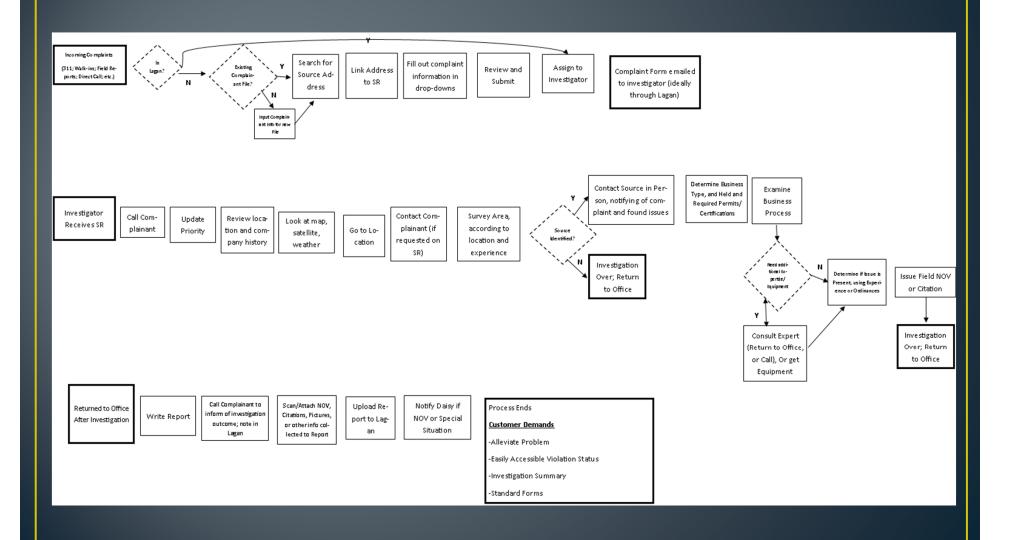
Analyze

- Investigators have to drive as far as 90 minutes between complaints; Average drive time of approximately 30 minutes between sites.
 - Approximately half of an investigator's time is being spent driving
- Standard work does not exist
 - Missing issues, bringing wrong equipment, lower average quality of work

Current State



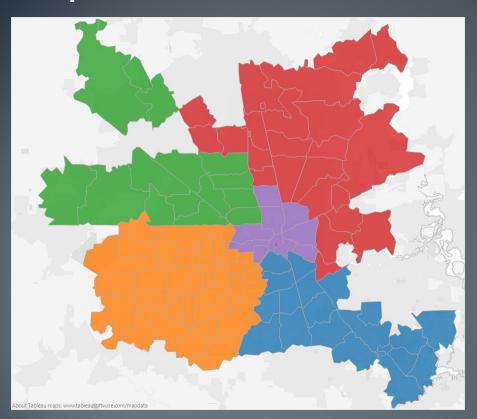
Future State

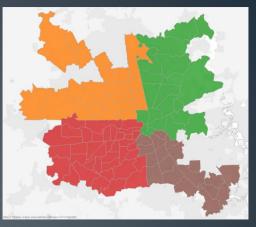


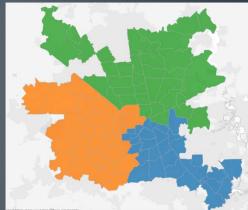
Improve

	Task	Responsibility	Notes
Completed	▲ Implement Area Focused Complaint Assignment	Arturo Blanco (BPCP), Daisy James (BPCP)	Anh to follow up in two weeks to check on progress
	▲ Quality of Life Updates to Lagan	A Ray Taylor (311)	Any further complaints will be addressed by Ray Taylor when brought to this attention.
	▲ Eliminated Wasteful Paperwork for Investigators	Arturo Blanco (BPCP), Daisy James (BPCP)	Anh to follow up in two weeks to ensure new procedures are being followed.
	▲ Standard Work for Investigation Reports	Arturo Blanco (BPCP), Daisy James (BPCP)	Anh to follow up in two weeks to ensure new form is functioning well.
Next Steps	▲ Acquire Funding for mobile technology solution	Anh Trieu (HHS)	Anh to present to the HHS department in the near future to request funding. Will follow up with Daisy and Arturo afterward.
	▲ Standard Work for Investigation	Arturo Blanco (BPCP), Daisy James (BPCP)	Anh to follow up in two weeks to check on progress being made by Arturo and Daisy.
	▲ Integration of Water and Soil Complaints into Lagan	Ray Taylor (311)	Arturo and Daisy to maintain close communication with Ray Taylor to ensure progress, and to update Anh of any developments.
	▲ Elimination of State Permit Files	Anh Trieu (HHS)	Anh to call TCEQ about being provided secondary copies of files, and to follow up with Gisel Chavez (BPCP) regarding reducing inventory of unnecessary files and electronic access to files.
	▲ Develop Visual Controls	Anh Trieu (HHS)	Anh to work with Daisy and Arturo on visual controls to better track complaint responses.
Distant Goals	▲ Additional Funding for Equipment	Arturo Blanco (BPCP), Daisy James (BPCP)	Arturo to seek funding for an additional GRIMM dust detector. Anh to periodically check in on this process.

Improve







- Furthest two points are now 30 miles within a district, with the smallest district having a maximum of 11 miles between points.
 - Average drive time should drop by at least half with three district map
 - More Districts = Less Drive Time

Standard Investigation Report Form



Houston Department of Health and Human Services Bureau of Pollution Control and Prevention (BPCP) Complaint Investigation Report



Complaint Request: Complaint Number
Date/Time Received: Click here to enter a date.
Date/Time Investigated: Click here to enter a date.
Site/Facility Name: Residential? Company?
Site/Facility Address: Location Address
Weather Conditions: Weather Information

Introduction:

Investigation:

Process Description:

Complaint & Compliance History:

Conclusion:

Written by: Select Name.

Date: Click here to enter a date.

Control

- Tracking Outputs to Measure Success
 - Visual Controls to ensure fast response time
 - Adjust districts if workload unbalanced
- Follow Up on Process
 - Maintain contact between interested parties
 - Weekly communication
 - Biweekly meetings
 - Continued observations