

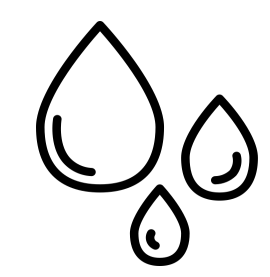
# Customer Onboarding Improvement

Brian Cunningham | Antoine Suhas | Caroline Verrecchia  
 Client Contact: Aaron Shearer | Faculty Advisor: Dr. Maury Nussbaum

## Company Background

62,000

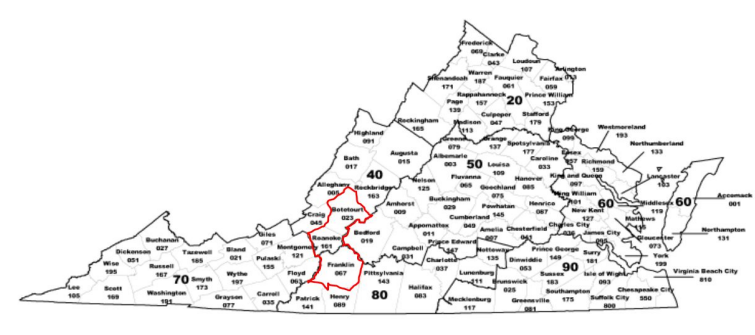
Water service customers



Serves local and rural, commercial and residential customers

56,000

Wastewater service customers



Provides services in 6 southwestern Virginia localities

## Problem Statement

The current process of a new customer signing up and obtaining service from WVWA is *time-consuming, inconsistent, and complicated.*

## Project Goals

Streamline Current Customer Onboarding Process

- Increase understanding and transparency of customer onboarding process
- Decrease time spent by staff on manual and repetitious data entry
- Automate notification system between departments for work

## Initial State

Each department has their own data management procedure using:



Some specialized departments using:

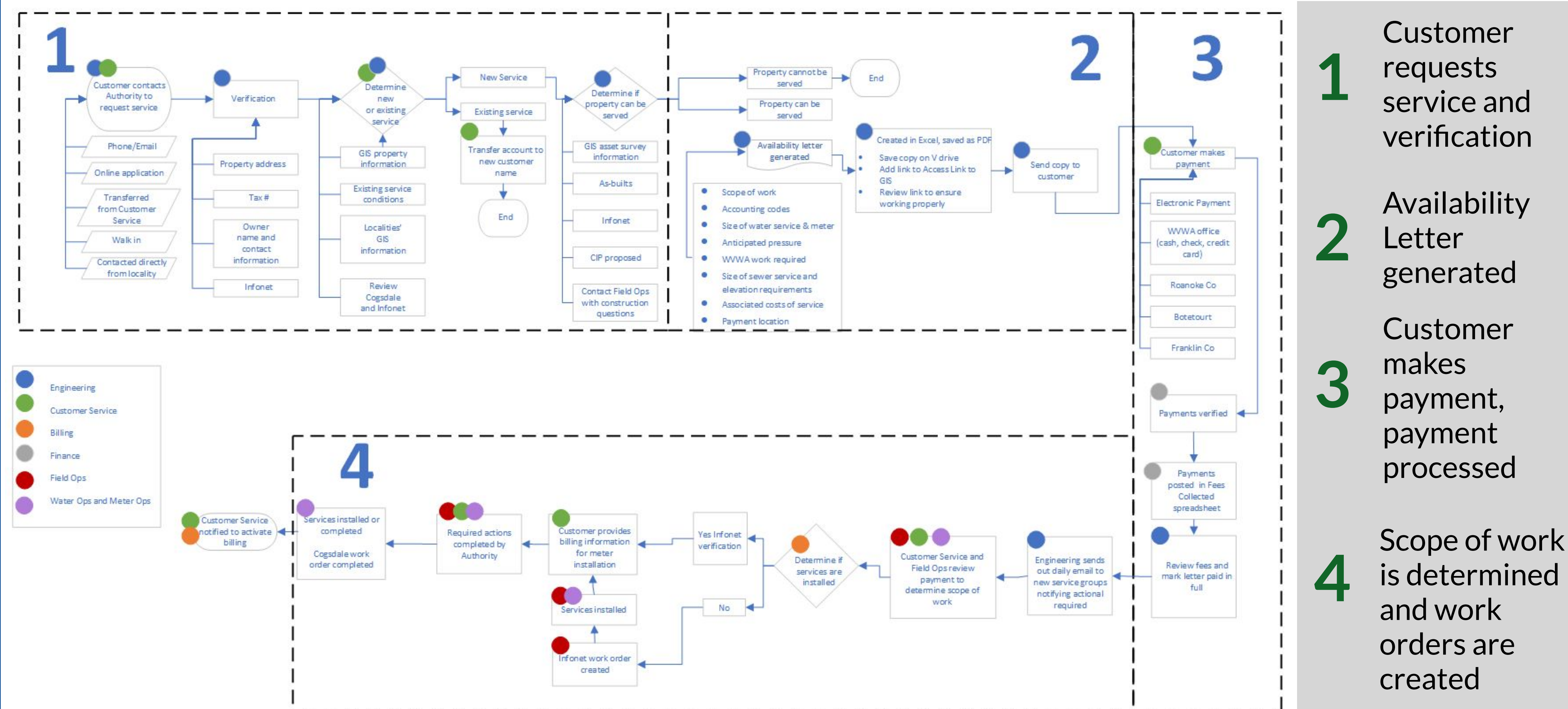


This leads to:

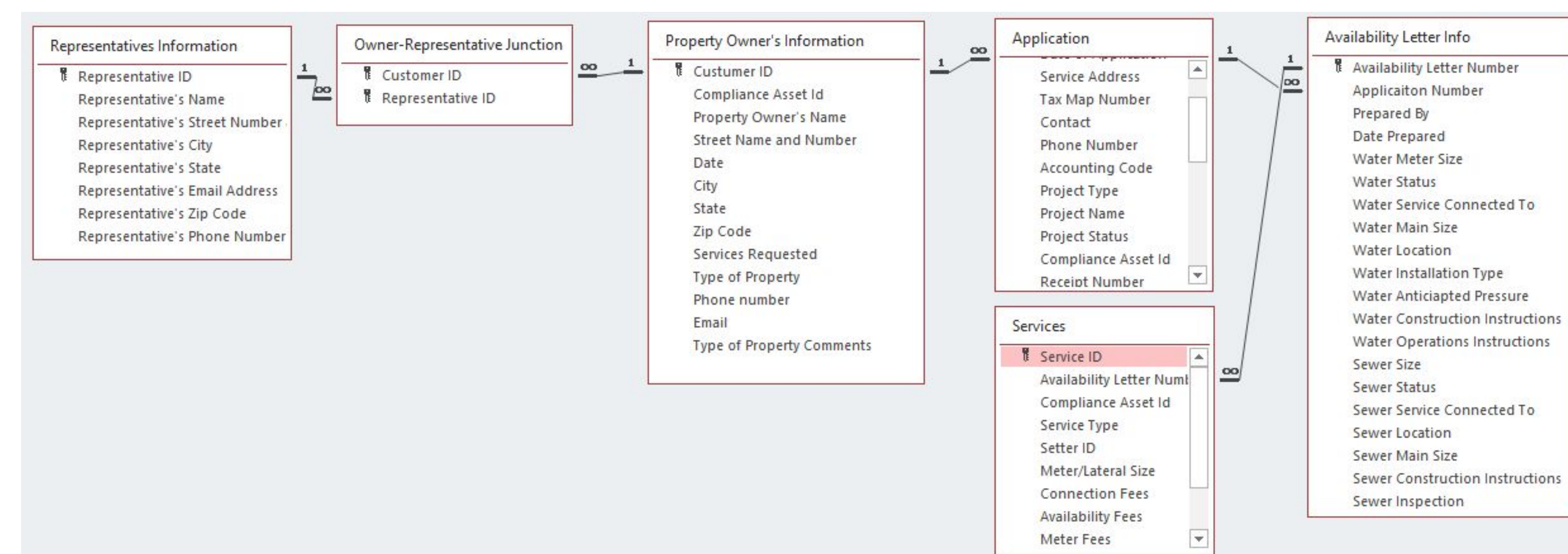
- Lack of transparency of customer status
- Abundance of data-update emails
- Inconsistent entries
- Confusion

## Solution

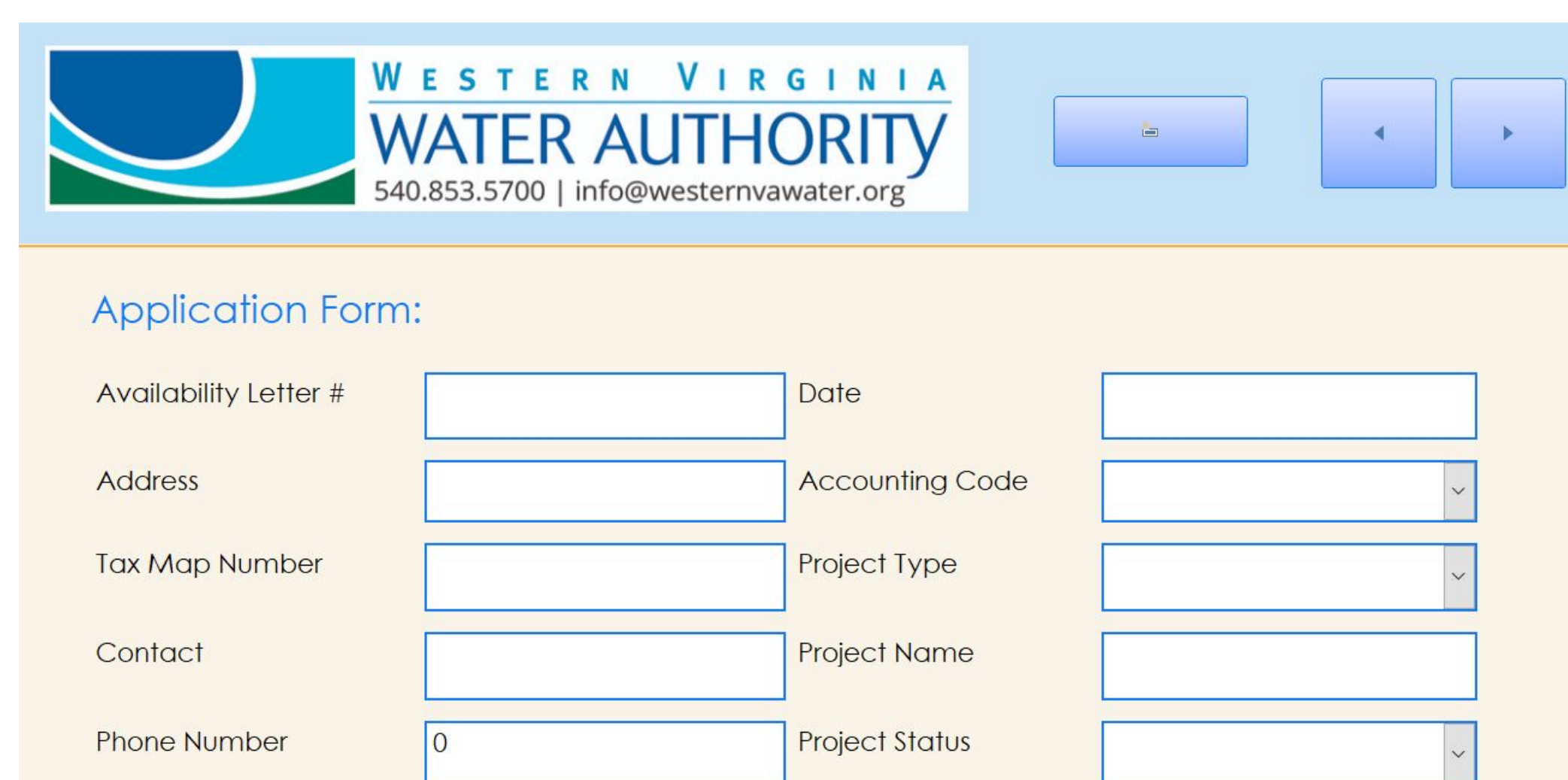
### New Water, New Sewer Process Map



### Access Database and Recommendations



Access Database Relationship Table Overview



Application Form in Access Database

### SharePoint Integration

- Access database converted to SQL database
- SharePoint site created
- SQL database integrated with SharePoint site through Microsoft Business Connectivity Services (BCS)

### Database Function Summary

- 5 Subforms: Application, Availability Letter, Financial, Property Owner's Information, Services
- Query on Property Address, Owner Name/Email, Availability Letter Number, Application Number
- Customer Tracking through different stages of service request process
  - Automated email sent when customer completes a 'step'

## Solution Approach

1. Develop New Water, New Sewer Process Map
  - Represent all customer and WVWA staff steps required for a new residential customer to receive water and wastewater services
2. Establish requirements for centralized data storage system
  - Accessible and editable by all staff
  - Store all relevant customer information
  - Eliminate need for any locally stored document, spreadsheets, or databases
3. Create, implement Access database with SharePoint frontend recommendations
  - Compatible with all existing internal WVWA databases
  - Provide overview of customer progress in system

## Implementation

### New Water, New Sewer Process Map

1. Conduct department reviews to ensure all relevant steps were included
2. Identified pain points in process to guide final solution

### Access Database

1. Stakeholder interviews with Customer Service, Billing, Finance, Engineering, Water Ops, Field Ops, and Meter Ops
2. Determine software requirements from IT Department
3. Build database and gather user feedback
4. Provide recommendations on SharePoint integration

## Impact

- Reduction in staff time spent troubleshooting the onboarding process
- Elimination and automation of non-value added steps
- Increased communication between departments
- Increased understanding of the onboarding process as a whole