



**ERIE COUNTY WATER AUTHORITY**  
**INTEROFFICE MEMORANDUM**

November 12, 2019

To: Staff Reports for Board Meeting  
From: Russell J. Stoll, Chief Operating Officer

A handwritten signature in blue ink, appearing to read "R. Stoll", is written over the "From:" line.

Subject: Material Inventory for Water Service Lines – Lead & Copper Rule

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There are proposed new USEPA regulations regarding lead and copper service lines found in water systems. This new rule will require a material inventory of water service lines in the water distribution systems. The comments below provide a description of the current status of ECWA lead service line inventory procedure.

When the Erie County Water Authority was created, it acquired the service records of the Western New York Water Company – which were generally quite good. As the water system grew via the acquisition of other municipal water departments through lease managed or direct service agreements, the Authority has taken steps to gather service data from our municipal partners and included it into our data base. However, this information has been found to have varying degrees of accuracy and completeness. This data is stored in the Authorities Enterprise Resource Planning System on IBM Power System. Additional steps are being taken to collect this data as the concern has risen regarding the water service material contained in the Authority's distribution system and regulations are becoming more stringent.

Currently the Authority collects data as line crews, service crews, and contractors identify the material at watermain and ECWA (public right-of-way) side of curb boxes and customer side of curb boxes. Material at the main and at both sides of the curb box has been acquired since December 1, 2018.

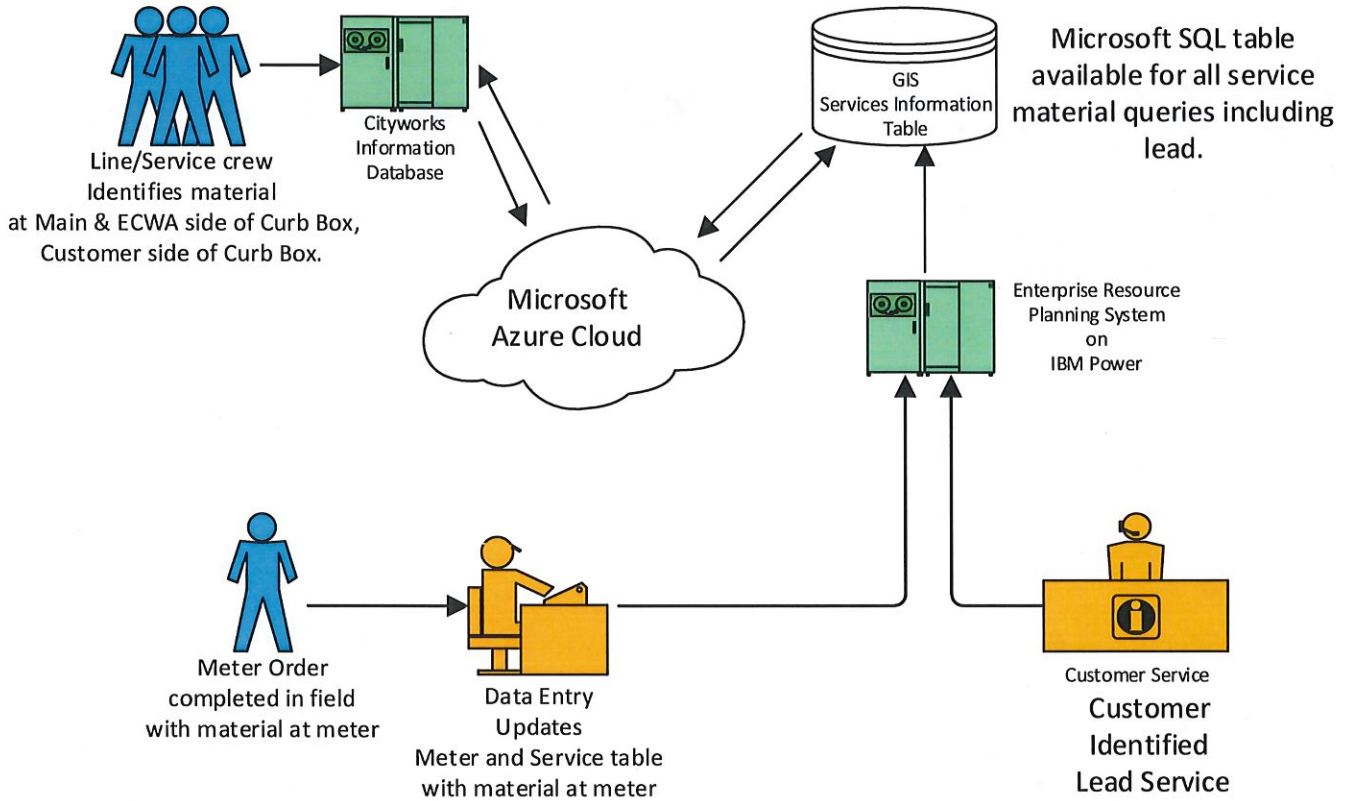
Also, water meter service workers enter homes to complete meter service work orders and log the water service line material observed during that work. Material at the meter has been acquired since December 1, 2016 via Meter Shop orders. ECWA customer service also collects and logs water service material data provided by the individual customer calls.

All the data collected from these various sources is entered into the IBM Power System, or in the Cityworks information data base (Line/Service Crew collected data) and joined together as a single data base. This data then resides in the Geographic Information (GIS) data base as well as the IBM Power System data base. This is shown graphically on the attached workflow charts.

The GIS has access to all the data available for water service line material. This data then has a geographic component that allows access to the data on the Authority's extensive GIS mapping.

RJS:jmf  
Attachment

# Water Service Line Information Workflow



The screenshot shows the ECWA Web GIS interface. A pop-up window titled "Service History" displays a table of service connection data for location ID 0166203-00 (46 HARRIET ST). The table includes columns for Date, Data Source, Service Size, Material at Main, Material at Box, Line Size, and Material at Meter.

Date	Data Source	Service Size	ECWA Service Connection		Customer Service Line		
			Material at Main	Material at Box	Line Size	Material at Box	Material at Meter
2004-08-18	DB	0.75	COPPER	COPPER			
2004-08-18	CW SRLEAD		LEAD	LEAD		COPPER	UNKNOWN
2019-07-29	CW ORD	0.75	COPPER	COPPER	0.75	COPPER	
2019-07-29	CW SRLEAD		COPPER	COPPER		UNKNOWN	UNKNOWN

Sample of GIS Services Material History Table

# Water Service Line Information GIS Legend

