

50946

TRANSMITTAL LETTER



To:

Addie Walker
SCDHEC
Bureau of Land and Waste
Management
2600 Bull Street
Columbia, South Carolina 29201

From:

Thomas Darby II, P.G.

Arcadis U.S., Inc.

30 Patewood Drive

Suite 155

Greenville

South Carolina 29615

Tel 864 987 3900

Fax 864 987 1609

Copies:

Jeannie Martin – 3M
Humberto Mardirossian

Date:

December 27, 2016

Subject:

Mardirossian Water Supply
Completion Report

Arcadis Project No.:

WI001459.0002

RECEIVED

DEC 28 2016

**SITE INVESTIGATION,
REMEDIATION &
REVITALIZATION**

We are sending you:

☒ **Attached** ☐ **Under Separate Cover Via _____ the Following Items:**

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| <input type="checkbox"/> Prints | <input type="checkbox"/> Samples | <input type="checkbox"/> Copy of Letter | <input checked="" type="checkbox"/> Reports |
| <input type="checkbox"/> Other: | | | |

Copies	Date	Drawing No.	Rev.	Description	Action*
1	12/27/16			Mardirossian Water Supply Completion Report	FA

Action*

- | | | |
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| <input type="checkbox"/> A Approved | <input type="checkbox"/> CR Correct and Resubmit | <input type="checkbox"/> Resubmit ____ Copies |
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| <input type="checkbox"/> Other: _____ | | |

Mailing Method

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| <input type="checkbox"/> U.S. Postal Service 1 st Class | <input type="checkbox"/> Courier/Hand Delivery | <input type="checkbox"/> FedEx Priority Overnight | <input type="checkbox"/> FedEx 2-Day Delivery |
| <input type="checkbox"/> Certified/Registered Mail | <input type="checkbox"/> United Parcel Service (UPS) | <input checked="" type="checkbox"/> FedEx Standard Overnight | <input type="checkbox"/> FedEx Economy |
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Comments:

42

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Design & Consultancy
for natural and
built assets

DEC 28 2016

**SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION**

Ms. Addie Walker
South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Arcadis U.S., Inc.
30 Patewood Drive
Suite 155
Greenville
South Carolina 29615
Tel 864 987 3900
Fax
www.arcadis.com

Subject
Mardirossian Water Supply Completion Report
1510 SC Highway 14 & Highway 14 Church Street Extension,
Laurens, South Carolina

ENVIRONMENT

Date:
December 27, 2016

Dear Ms. Walker:

Contact:
Thomas Darby II, P.G.

On behalf of 3M Company (3M), Arcadis U.S., Inc. (Arcadis) has prepared this Water Supply Completion Report to document the modifications to the Mardirossian's water supply system for the residences located at 1510 South Carolina Highway 14 (Parcel # 352-00-00-004) and along the Highway 14 Church Street Extension (Parcel # 352-00-00-032) in Laurens County, South Carolina. The modifications were completed between November 14 and November 21, 2016 and included the installation of six water taps, connection of three residences to municipal-supplied water, and abandonment of the water supply well. The modification was performed to remove the existing water supply well from service due to the proximity to the Laurens CeramTec Site (site). A plan view of the new water line/meter location as-built is included as **Figure 1**.

Phone
864-987-3918

Email
Thomas.Darby@arcadis.com

Our ref:
W1001459.0002

Municipal Water Supply

Prior to mobilizing, Arcadis worked with Laurens County Commission of Public Works (LCCPW) and the Mardirossian's to complete an annexation agreement to setup the water service accounts for each of the six water taps. Following the completion of the account setup, LCCPW installed six feed lines from the 10-inch water main located on the southern side of Welcome Church Road to the right-of-way on the two properties. Each feed line was terminated by LCCPW at a ¾-inch water meter.

Residence Water Connection

Arcadis subcontracted Thomas Brothers Nursery & Landscaping Company, Inc. (Thomas Brothers) to connect three of the water meters to the existing

residences. The existing water line from the water supply well was disconnected at the well house and left in place on November 14, 2016. A new ¾-inch polyvinyl chloride (PVC) water supply line was installed approximately 16 to 18 inches below land surface and connected to the existing infrastructure (water spigot, shut off valve, etc..) on the exterior of the three existing residences by Thomas Brothers. As of November 21, 2016, each of the three residences were supplied with water by LCCPW and the billing was the responsibility of the tenants.

Three of the installed water meters are for the vacant lots on the parcels. At two of the water meters, no additional piping was installed and future connection to the water meters will be completed by the property owner or new tenants when occupied. The third meter for a vacant parcel included a section of water line, complete with an under driveway bore, to position the water line in an area where it can easily be accessed in the future. The line was marked with a tracer wire for ease of identification in the future.

Water Well Abandonment

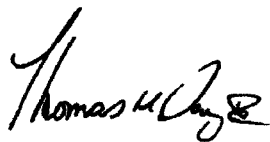
On November 21, 2016, AE Drilling, Inc., a licensed South Carolina Driller (license #1847), removed the water supply pump, piping, pressure tank, and pressure switch from the water supply well. The well casing was cut down to just below land surface and the well was then filled with sand from 135.5 feet to approximately 20 feet below land surface. The remaining 20 feet was filled with neat cement grout to land surface. Abandonment activities were completed in accordance with South Carolina Department of Health and Environmental Control R. 61-71 South Carolina Well Standards. A copy of the water well record form that documents the abandonment is included as **Attachment 1**.

With the water supply-well abandoned, the modifications to the water supply system are complete.

Please let us know if you have any questions regarding this Completion Report.

Sincerely,

Arcadis U.S., Inc.



Thomas A. Darby II, P.G.
Senior Hydrogeologist

Copies:

Jeannie Martin-3M
Humberto Mardirossian

Enclosures

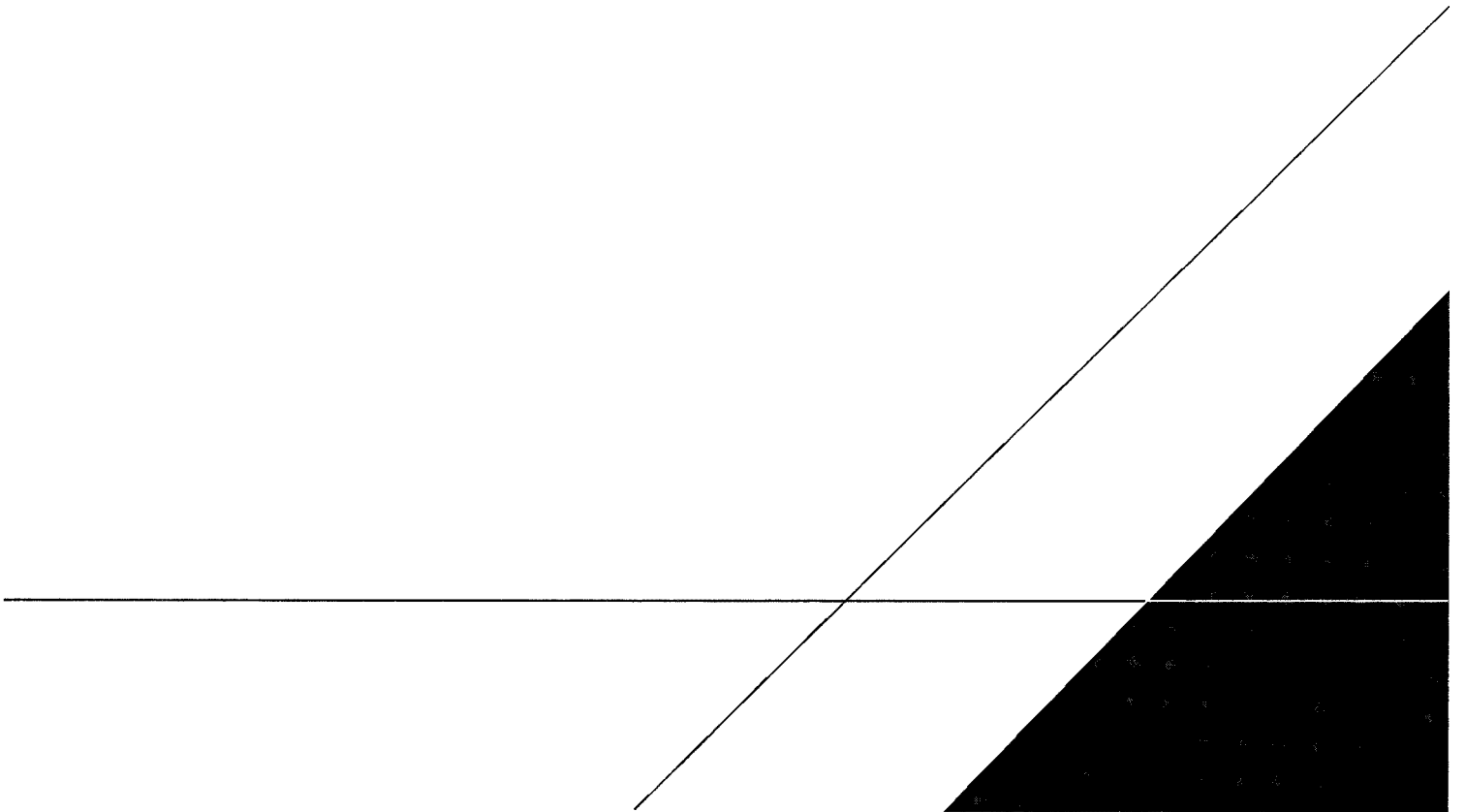
Figures

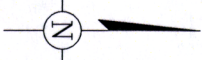
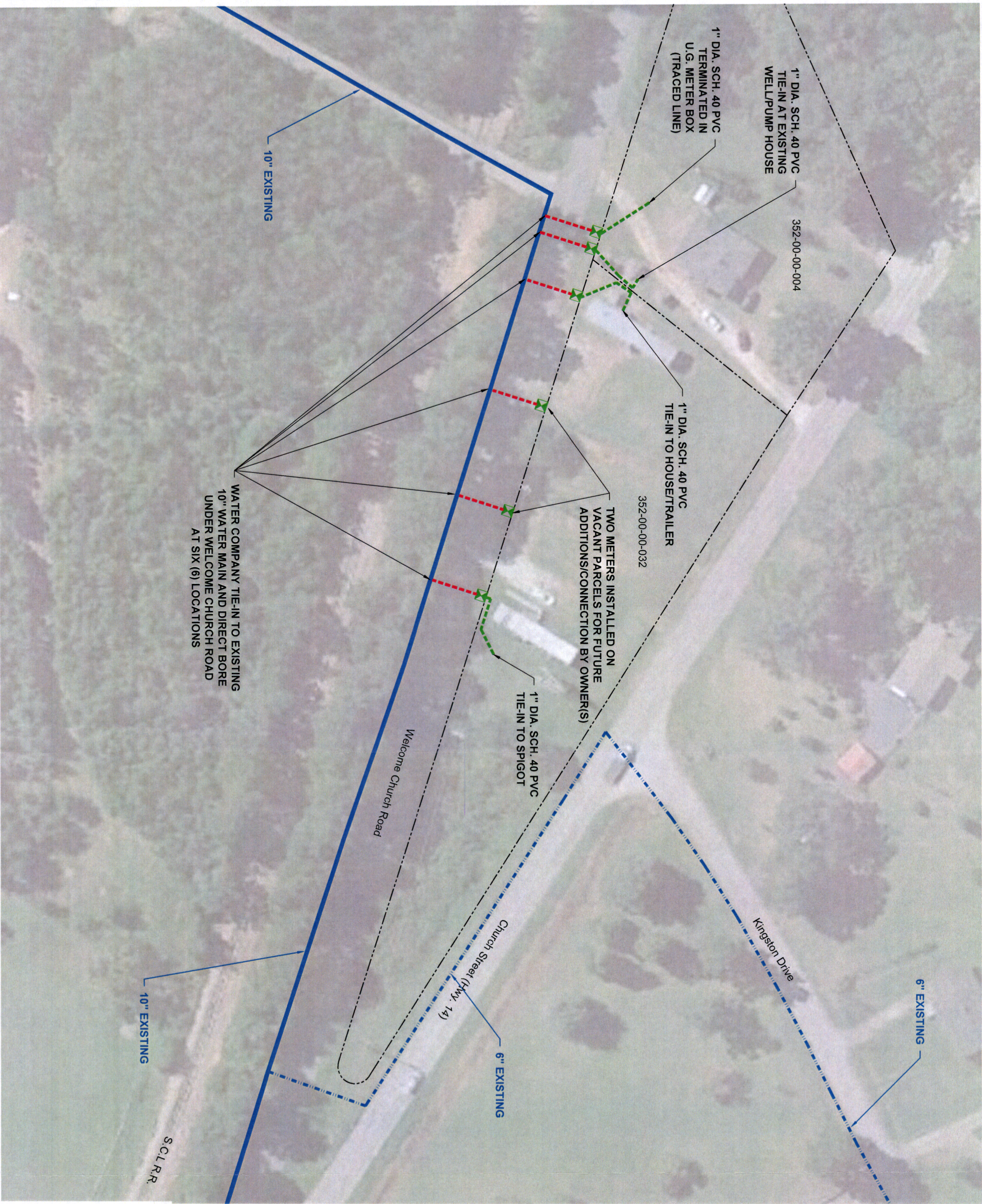
- 1 As-Built-New Water Line/Meter Locations

Attachments

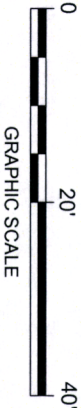
- 1 Water Well Record Form

FIGURES





- LEGEND**
- EXISTING 6" WATER LINE
 - EXISTING 10" WATER LINE
 - NEW 1" DIA. SCH. 40 PVC WATER LINE AND METER
 - NEW TIE-IN TO EXISTING 10" WATER MAIN COMPLETED BY LAURENS COUNTY COMMISSION OF PUBLIC WORKS



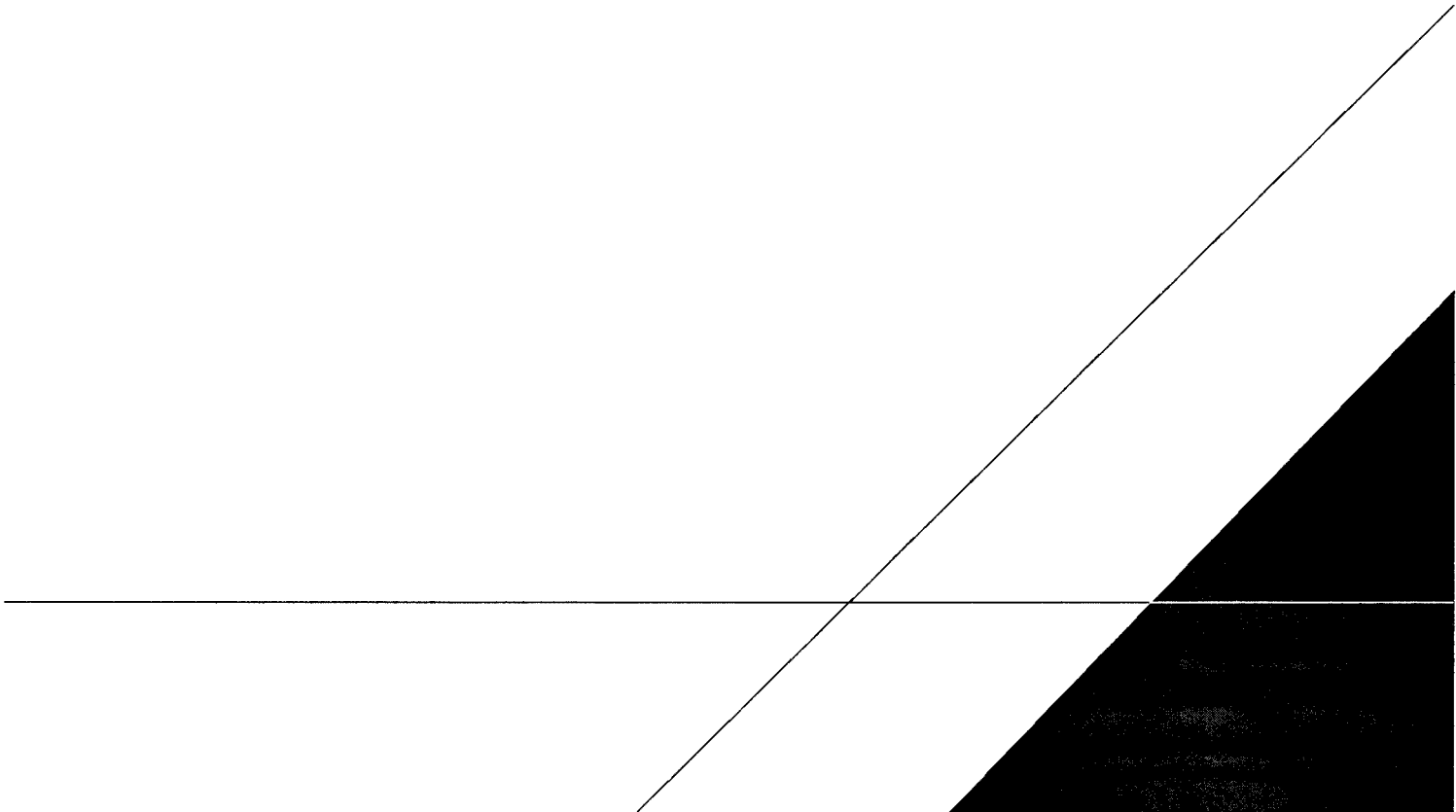
LAURENS CERAMTEC SITE
LAURENS, SOUTH CAROLINA

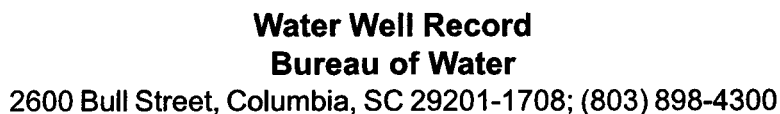
AS-BUILT
NEW WATER LINE/METER LOCATIONS



ATTACHMENT 1

Water Well Record Form





COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)