

NOLAN CREEK

Partnership Meeting

Sponsored by

Texas Commission on Environmental Quality (TCEQ)

Texas Institute for Applied Environmental Research

City of Killeen

January 20, 2016



Project -

**Assessment of Water Quality and
Watershed Based Planning for Nolan
Creek/South Nolan Creek**

Start Date: Sep 2012

End Date: Feb 2016

Watershed Characterization Project

Major Project Tasks

- **Identify Watershed Stakeholders**
- **Assemble a Data Inventory**
- **Collect & Analyze Stream Data**
- **Identify Pollution Causes, Sources & Needed Reductions**
- **Develop an Information & Educational Outreach Strategy**

Project Funding -

- EPA Clean Water Act 319(h) grant through TCEQ Nonpoint Source Program (\$275,651)



- Matching funds from TIAER (\$166,146) & City of Killeen (\$17,621)



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- Total (\$275,651 + \$183,767 = \$459,418)

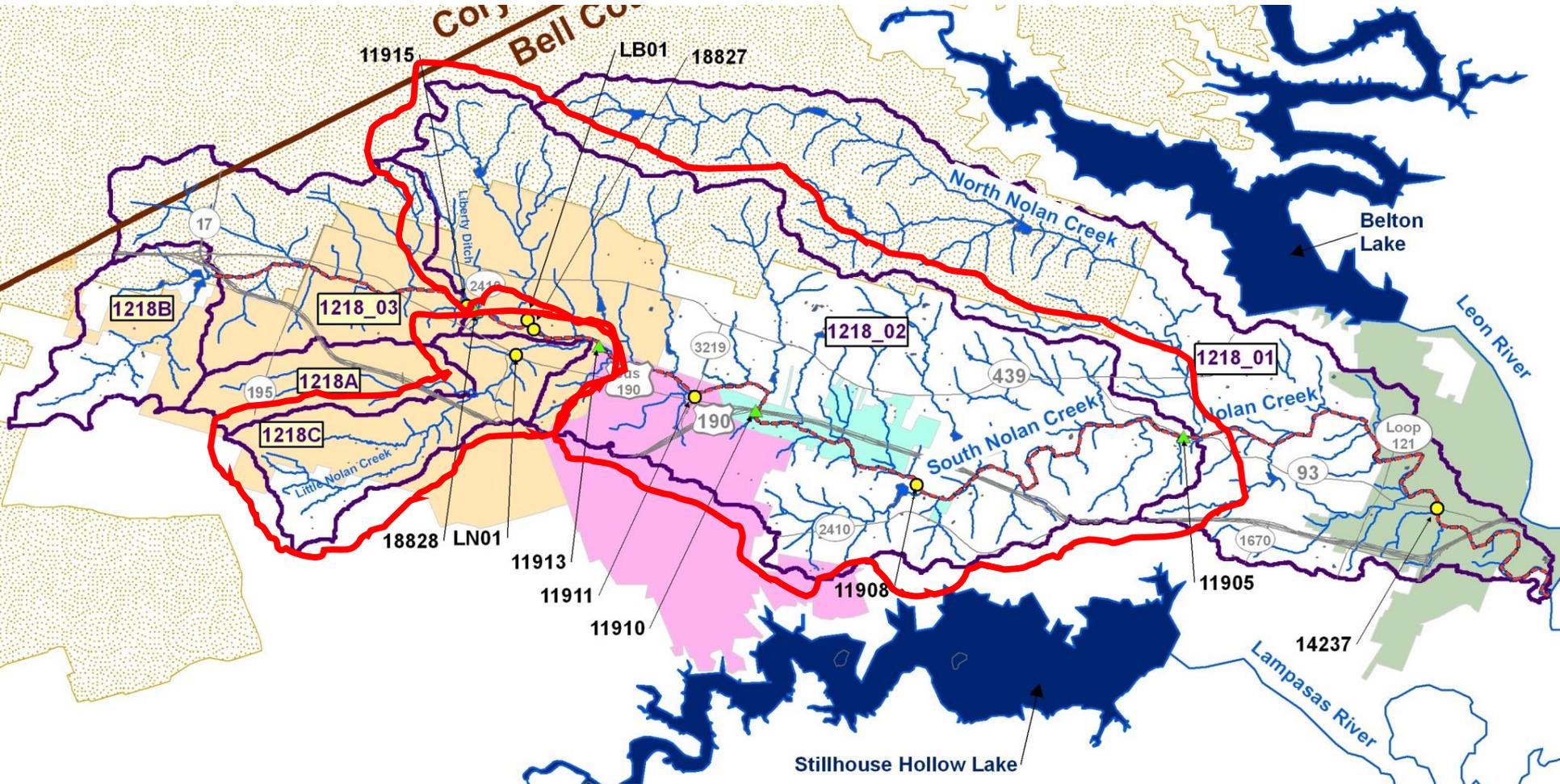
Segment 1218

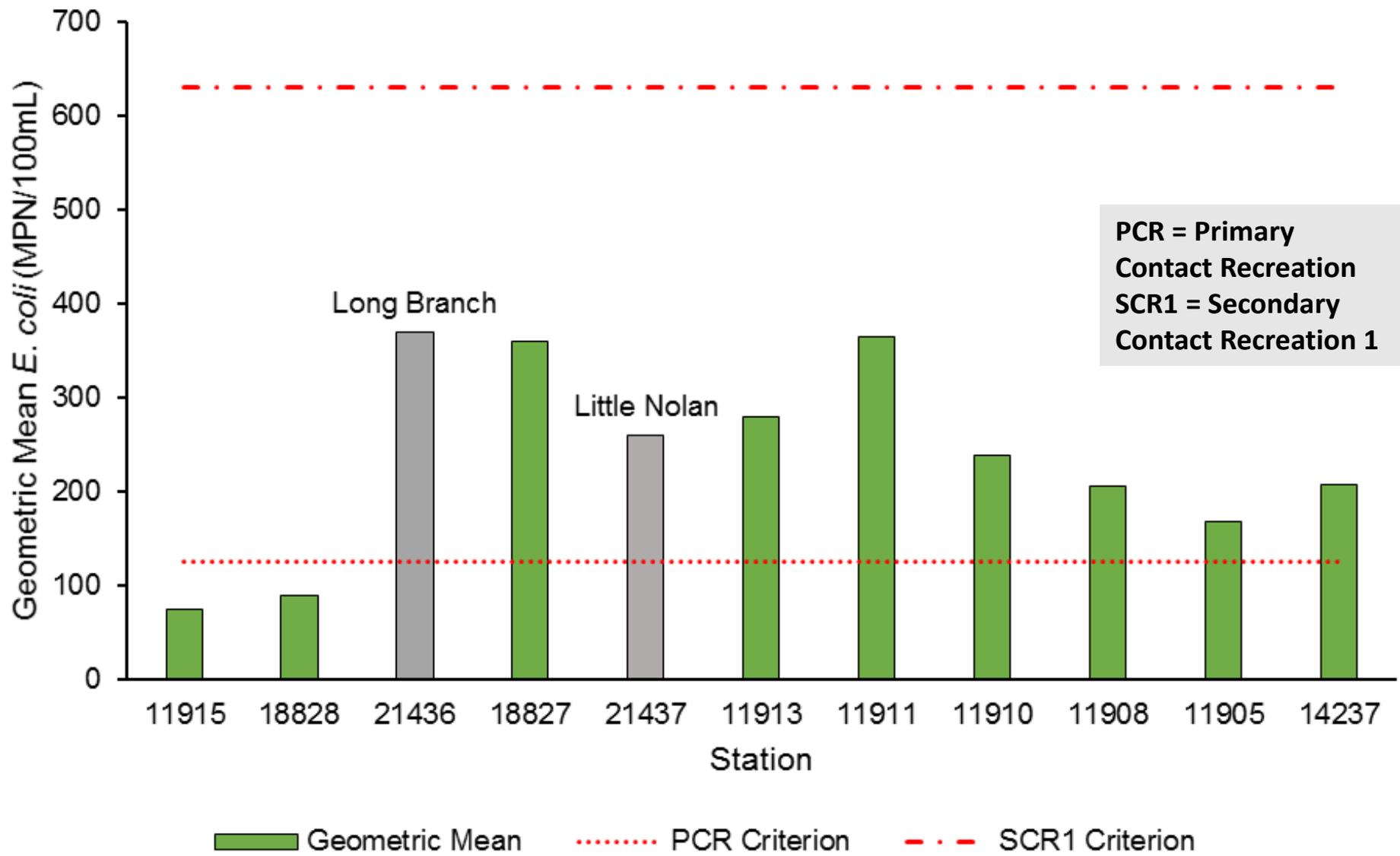
Impaired due to elevated bacteria

- **1218_02 – South Nolan from Liberty Ditch to confluence with North Nolan/Nolan Creek**
- **1218C_01 – Little Nolan Creek**

Concerns for elevated nutrients in 1218_02

Segment 1218

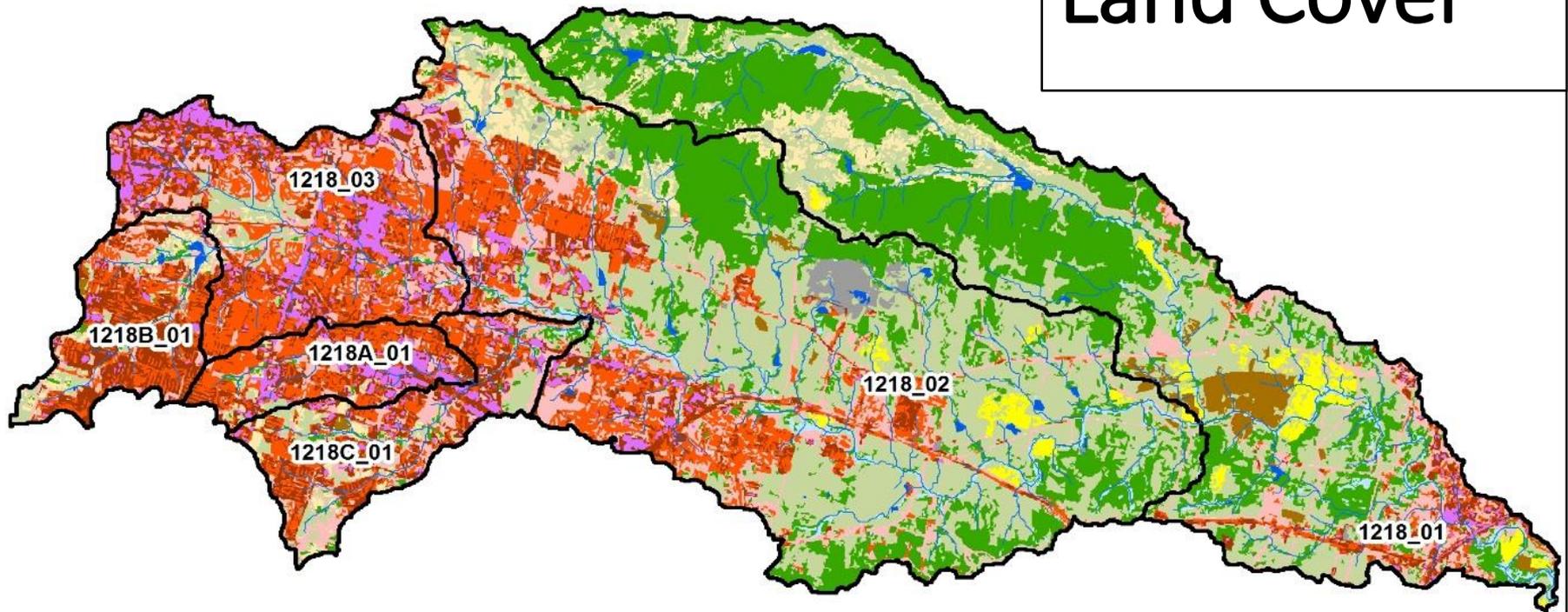




Sources of Bacteria

- **Point Sources**
 - **Sanitary Sewer Overflows (SSOs)**
- **Nonpoint Sources**
 - **On-Site Treatment Systems or Septic Systems**
 - **Stormwater Runoff from Urban & Rural Areas**
 - **Pets**
 - **Residential & Industrial Waste**
 - **Livestock**
 - **Birds & Wildlife**

Land Use/ Land Cover



2011 NLCD

- | | | | |
|---|---|---|----------------------|
|  | Barren Land |  | Forest |
|  | Cultivated Crops |  | Grassland/Herbaceous |
|  | Developed, High Intensity |  | Open Water |
|  | Developed, Low Intensity |  | Pasture/Hay |
|  | Developed, Medium Intensity |  | Shrub/Scrub |
|  | Developed, Open Space |  | Wetlands |
| |  | Assessment Units | |



New Reports -

- ***Characterizing Potential Pollutant Loads to Nolan Creek/South Nolan Creek***
- ***Outreach and Education Strategy for the Nolan Creek/South Nolan Creek Watershed***
- ***Assessment of Water Quality and Watershed Based Planning for Nolan Creek/South Nolan Creek – Final Project Report***

<http://www.killeentexas.gov/nolancreekwatershed>



Killeen, Texas

Official Website for the City of Killeen, Texas

[City Departments](#) | [Public Works](#) | [Drainage Utility](#) | [Nolan Creek Watershed Partnership](#)

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Nolan Creek Watershed Partnership

Background

[Nolan Creek Watershed Fact Sheet, October 2012](#)

[Nolan Creek Watershed Fact Sheet, June 2015](#)



QAAP Basemap

News

Home Chemical Collection Event

Home Chemical Collection Event on February 15, 2014:

[Event information](#)

[Read More](#)

Next Meeting

Save the Date: The next Nolan Creek Partnership meeting is scheduled for January 20, 2016.

[Read More](#)

Showing 1-2 of 2

Stream Team Core (Basic) Training

Contact Information

Leah Taylor

Public Outreach Coordinator, TIATR

 [Leah Taylor](mailto:Leah.Taylor@tiatr.com)

(254) 968-0513

Join Mailing List

If you would like to receive updates about the progress of the Nolan Creek Watershed Partnership, please email the following information to Leah Taylor:

- First and last name
- Entity
- Email address
- Phone number
- Street address
- State
- Zip code

Your contact information will not be sold or

http://tiaer.tarleton.edu/nolan-creek-watershed.html



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NOLAN CREEK WATERSHED PARTNERSHIP

NOLAN CREEK



Larger Image

Segment 1210 was first listed on the 1996 303(d) List for elevated bacteria concentrations. The 2010 303(d) List identifies assessment unit 1218-02 (portion of South Nolan Creek from confluence with North Nolan/Nolan Creek fork upstream to confluence with Liberty Ditch in City of Killeen in Bell County) and 1210C (Little Nolan Creek from confluence with Nolan Creek/South Nolan Creek upstream to headwaters in the City of Killeen, Bell County) for elevated bacteria concentrations. Both assessment units are classified as 5b, indicating that a review of the water quality standards for this water body will be conducted before a total maximum daily load (TMDL) will be scheduled. In addition, the 2010 Texas Water Quality Inventory identifies the following concerns, nitrate, total phosphorus, and orthophosphorus.

PUBLICATIONS

- Building Partnerships Report - Public Participation Plan for Nolan Creek/South Nolan Creek Watershed Based Planning
- Data Inventory Report - Data Inventory for the Nolan Creek/South Nolan Creek Watershed Segment 1218

Project Update

Station 11913 South Nolan Creek at Roy
Reynolds Rd taken on June 4, 2013

Next Steps

- Moving towards Watershed Protection Planning & Improvements

Nolan Creek at Backstrom Crossing
(station 11905) taken on May 21, 2015

Questions?

Project Website:

<http://www.killeentexas.gov/nolancreekwatershed>

PREPARED IN COOPERATION WITH THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY
AND U.S. ENVIRONMENTAL PROTECTION AGENCY

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