

N00639.AR.002242  
NSA MID SOUTH  
5090.3a

LETTER DISCUSSING REGULATORY COMMITTEE SOLICITING BIDS FROM CARBON  
SUBSTRATE VENDORS MILLINGTON SUPPACT TN  
3/29/2013  
RESOLUTION CONSULTANTS

March 29, 2013

Roger Donovan  
Tennessee Department of Conservation  
Division of Solid Waste Management  
5<sup>th</sup> Floor, L&C Annex  
401 Church Street  
Nashville, TN 37243-1538

Re: Modification of AOC A Injections  
NSA Mid-South; Millington, Tennessee

Dear Roger,

We are in the process of soliciting bids from carbon substrate vendors and concurrently we have conducted an evaluation of February semi-annual monitoring data. As a result, we request a slight modification to the injection recommendations we proposed for Sub-Plume A in the Sampling and Analysis Plan (Resolution Consultants, 2012).

The original plan was to inject at five locations at Sub-Plume A shown in Figure 1. The 3-well transect at 007G72LF, 007G73LF, and 007G75LF was intended to address the downgradient area of 007G87LF where TCE concentrations had stabilized between 86 and 89 µg/L in 2010. The 2-well transect at 007G68LF and 007G70LF was intended to address the 007G65LF area where 110 µg/L was detected in November 2010. As shown on Figure 2, TCE concentrations decreased from 89 µg/L to 42 µg/L at well 007G87LF since November 2010. Well 007G32LF, 75 feet east-northeast of 007G87LF had a TCE reduction from 5 µg/L to 2 µg/L. TCE reductions at 007G65LF decreased from 110 µg/L to 19.5 µg/L. The injections that were originally proposed are therefore not warranted based on the recent TCE reduction.

However, data suggest that other areas may warrant supplemental injections, specifically three wells which have exhibited TCE concentrations increases since November 2010:

- Sub-Plume C well 007G03LF (non-detect to 80.6 µg/L)
- Sub-Plume A well 007G59LF (5 µg/L to 233 µg/L)
- Sub-Plume A well 007G04LF (5 µg/L to 80 µg/L)

With your approval we would like to evaluate data from the upcoming August 2013 event to establish whether these recent increases are representative of a trend and then decide whether supplemental injections are warranted.

The originally proposed injections for Sub-Plume D and the perimeter remain unchanged from the SAP. With your approval of the proposed modification, Resolution Consultants will proceed with procurement of the carbon substrate and perimeter and Sub-Plume D injections.

Sincerely,  
Resolution Consultants



Resolution Consultants  
A Joint Venture of AECOM & EnSafe  
1500 Wells Fargo Building  
440 Monticello Avenue  
Norfolk, Virginia 23510

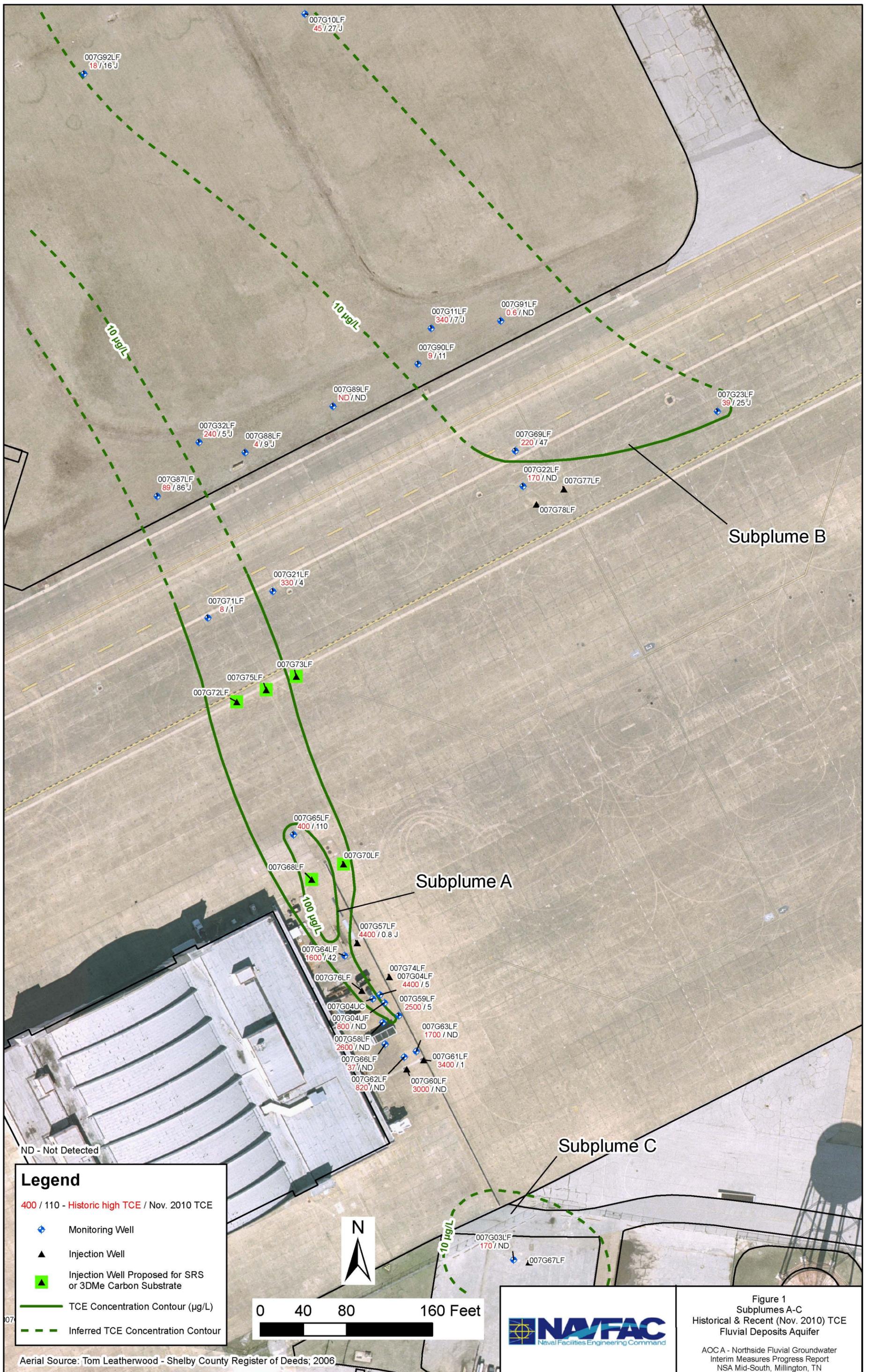


By: Ben Brantley  
Task Order Manager

cc: David Criswell – BRAC PMO SE  
Stacin Martin – NAVAC LANT  
Rachel Methvin – NSA Mid-South

Attachments: Figures 1 and 2





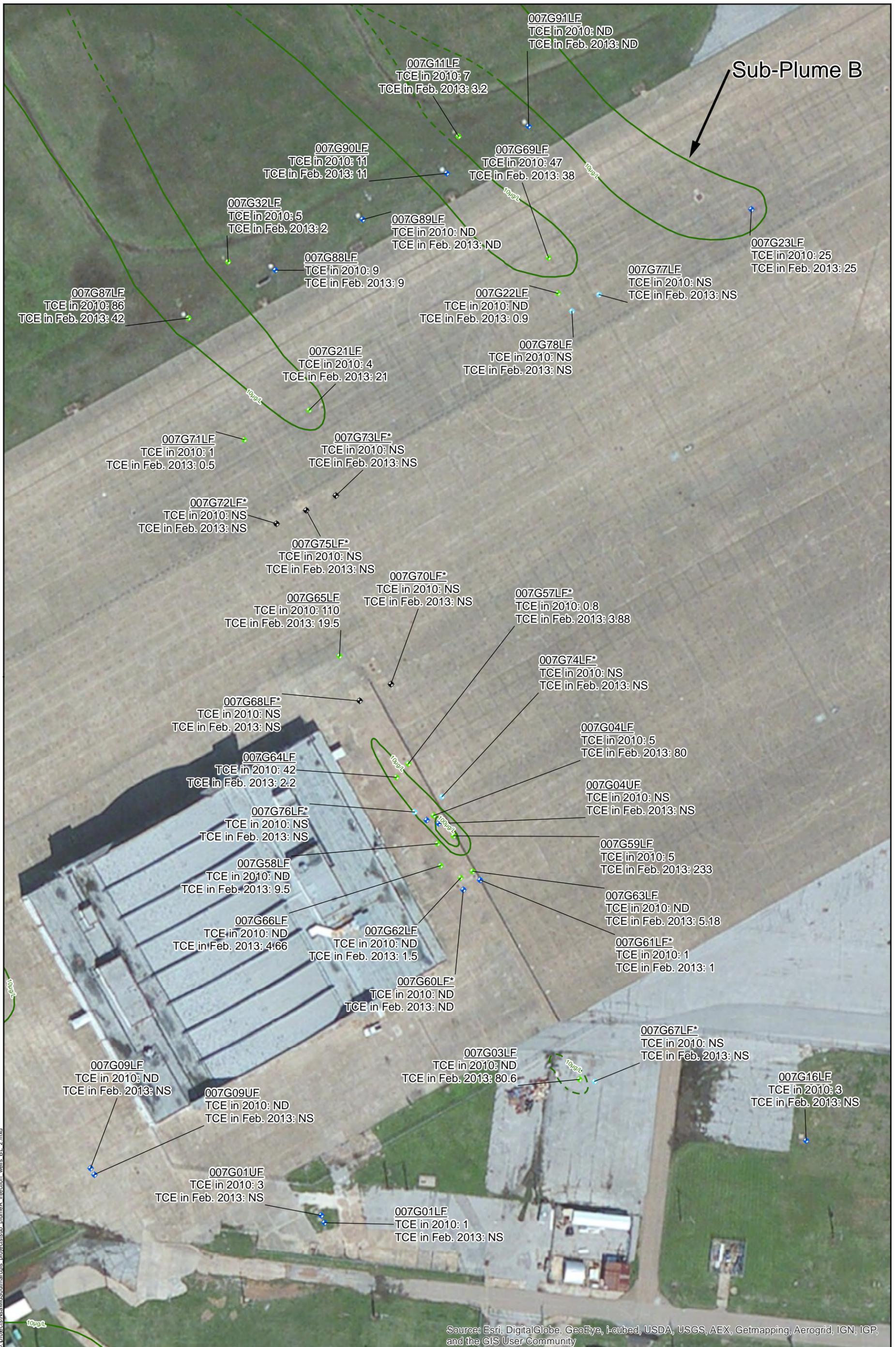
ND - Not Detected

0 40 80 160 Feet



Figure 1  
 Subplumes A-C  
 Historical & Recent (Nov. 2010) TCE  
 Fluvial Deposits Aquifer

AOCA - Northside Fluvial Groundwater  
 Interim Measures Progress Report  
 NSA Mid-South, Millington, TN



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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

<ul style="list-style-type: none"> <li><span style="color: blue;">◆</span> Annually Sampled</li> <li><span style="color: green;">◆</span> Semi-Annually Sampled</li> <li><span style="color: black;">◆</span> Proposed Injection Well</li> <li><span style="color: blue;">◆</span> Water Levels Only</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: yellow;">◆</span> Proposed Monitoring Well</li> <li><span style="color: green;">—</span> TCE Contour (10 µg/L)</li> <li><span style="color: green;">- - -</span> Inferred TCE Contour</li> </ul>	<p>1 inch = 100 feet</p> <p>0 40 80 120 160 Feet</p>	<p>FIGURE 2 SUB-PLUME A TCE IN GROUNDWATER NSA MID-SOUTH</p>	 
<p>* Former Injection Well; NS - Not Sampled; ND - Not Detected</p>		<p>REQUESTED BY: B. BRANTLEY      DATE: 3/29/2013</p> <p>DRAWN BY: B. LIPSCOMB      TASK ORDER NUMBER: XXXXX</p>		