



Fort George G. Meade

Nevada Avenue Off-Post Groundwater Investigation Update

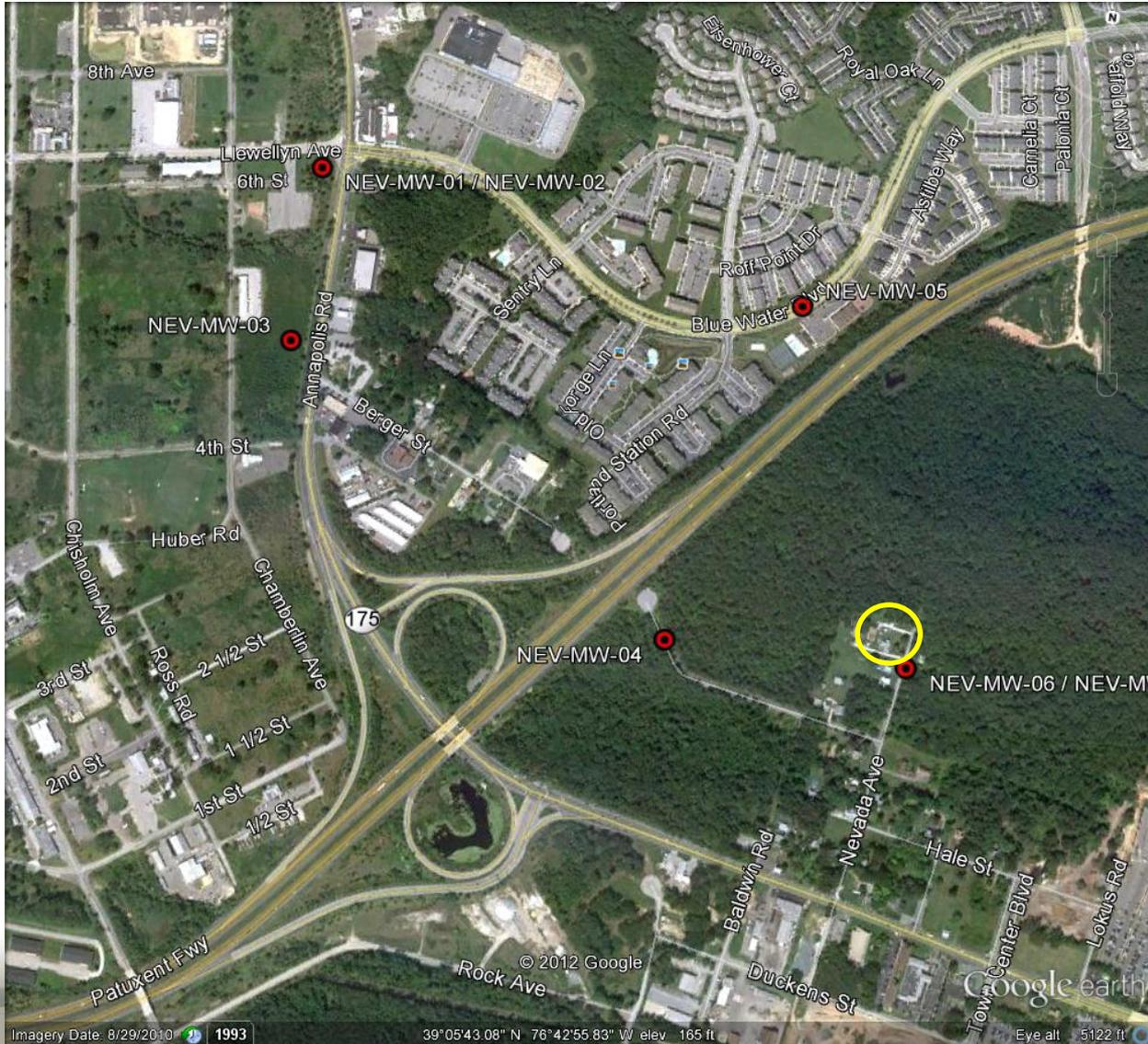
Restoration Advisory Board Meeting March 17, 2016



ARMY STRONG.



Nevada Avenue Investigation





Nevada Avenue Monthly Sampling - Interim Results

(last 12 months)



Month	<i>Dichloroethene</i> (MCL - 70 µg/L)		<i>Tetrachloroethene</i> (MCL - 5 µg/L)		<i>Trichloroethene</i> (MCL - 5 µg/L)	
	Detections / Samples	Range (µg/L)	Detections / Samples	Range (µg/L)	Detections / Samples	Range (µg/L)
Feb 15	3/3	0.35J – 0.5J	3/3	1.1 – 1.4	0/3	ND
Mar 15	2/3	0.43J - 0.44J	3/3	1.0 – 1.3	0/3	ND
Apr 15	2/2	0.38J – 0.47J	2/2	1.2 – 1.5	0/3	ND
May 15	2/3	0.4J – 0.41J	3/3	1.2 – 1.4	0/3	ND
Jun 15	1/2	0.5J	2/2	1.1 – 1.2	0/2	ND
Jul 15	1/2	0.43J	2/2	1.2 – 1.4	0/2	ND
Aug 15	2/2	0.35J – 0.40J	2/2	1.1 – 1.3	0/2	ND
Sep 15	0/2	ND	2/2	1.3 – 1.4	0/2	ND
Oct 15	0/2	ND	2/2	1.0 – 1.2	0/2	ND
Nov 15	2/2	0.34J – 0.39J	2/2	0.98 – 1.1	0/2	ND
Feb 16	0/2	ND	2/2	0.98 – 1.1	0/2	ND

MCL = Maximum Contaminant Level

µg/L = micrograms per liter

ND = Indicates contaminant not detected above the MDL

Data Qualifiers: J= estimated concentration below the method detection limit (MDL)

***Data not validated**

BOLD SHADED = MCL exceeded





Summary of Nevada Avenue Monthly Sampling Results – Tetrachloroethene (PCE)





Investigation Next Steps



- Army sampling of Nevada Ave private wells continues
 - Collected 16 & 23 February 2016
 - Reduced frequency to quarterly approved by EPA & MDE
 - Next sampling May 2016
 - Will re-evaluate if results change
- Property A not sampled due to spigot malfunction. Spigot to be repaired by homeowner soon...
- Bottled water under contract, one year with two option years.
- Additional investigations recommended to determine if FGGM is source of Nevada Ave COCs. Upgradient potential source areas included in current contracts.





Points of Contact



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Back-up Slides

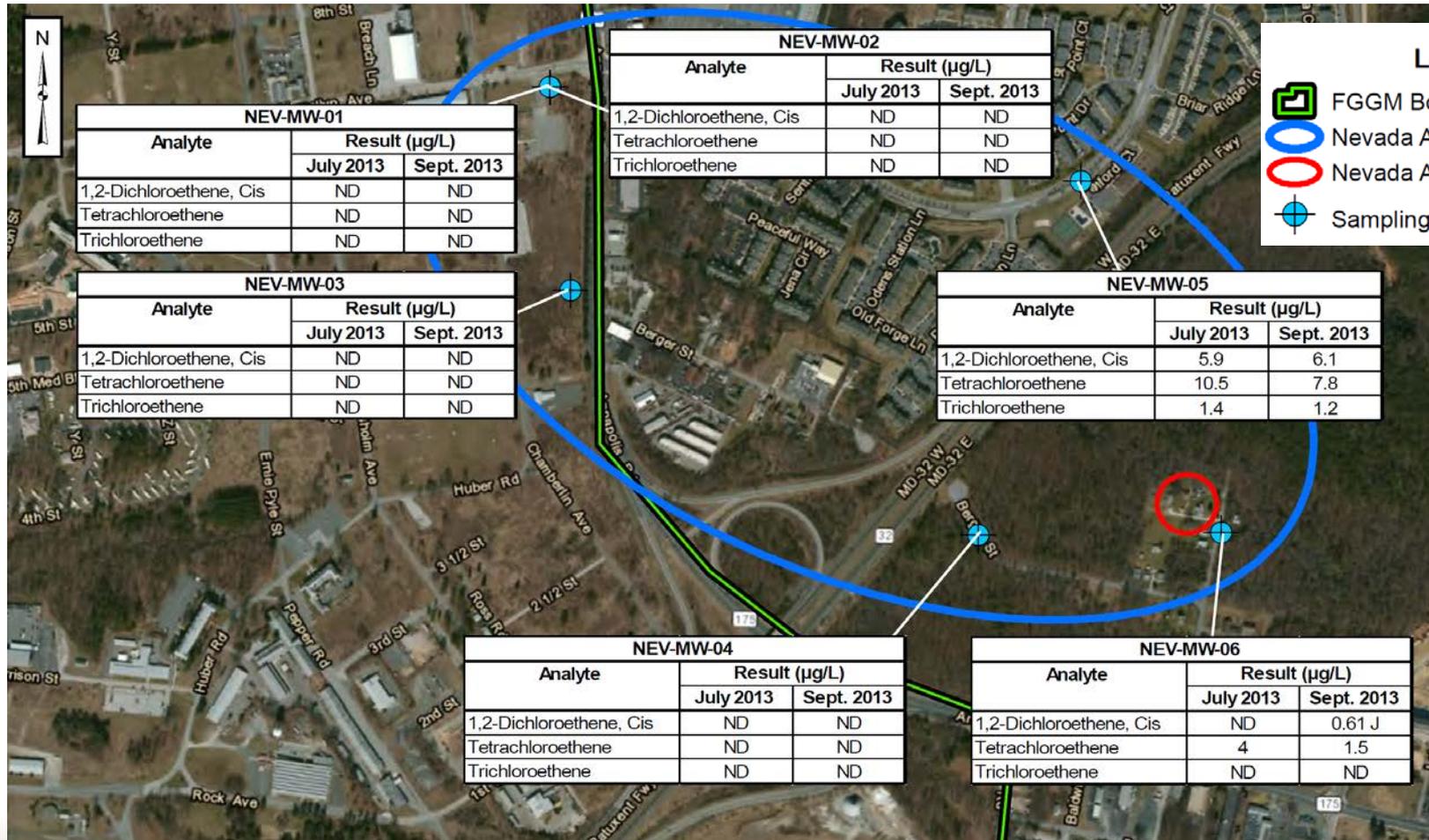




Results



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Legend

- FGGM Boundary
- Nevada Avenue Study Area
- Nevada Avenue Private Wells
- Sampling Location - New Well

NEV-MW-01		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	ND
Tetrachloroethene	ND	ND
Trichloroethene	ND	ND

NEV-MW-02		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	ND
Tetrachloroethene	ND	ND
Trichloroethene	ND	ND

NEV-MW-03		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	ND
Tetrachloroethene	ND	ND
Trichloroethene	ND	ND

NEV-MW-05		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	5.9	6.1
Tetrachloroethene	10.5	7.8
Trichloroethene	1.4	1.2

NEV-MW-04		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	ND
Tetrachloroethene	ND	ND
Trichloroethene	ND	ND

NEV-MW-06		
Analyte	Result (µg/L)	
	July 2013	Sept. 2013
1,2-Dichloroethene, Cis	ND	0.61 J
Tetrachloroethene	4	1.5
Trichloroethene	ND	ND

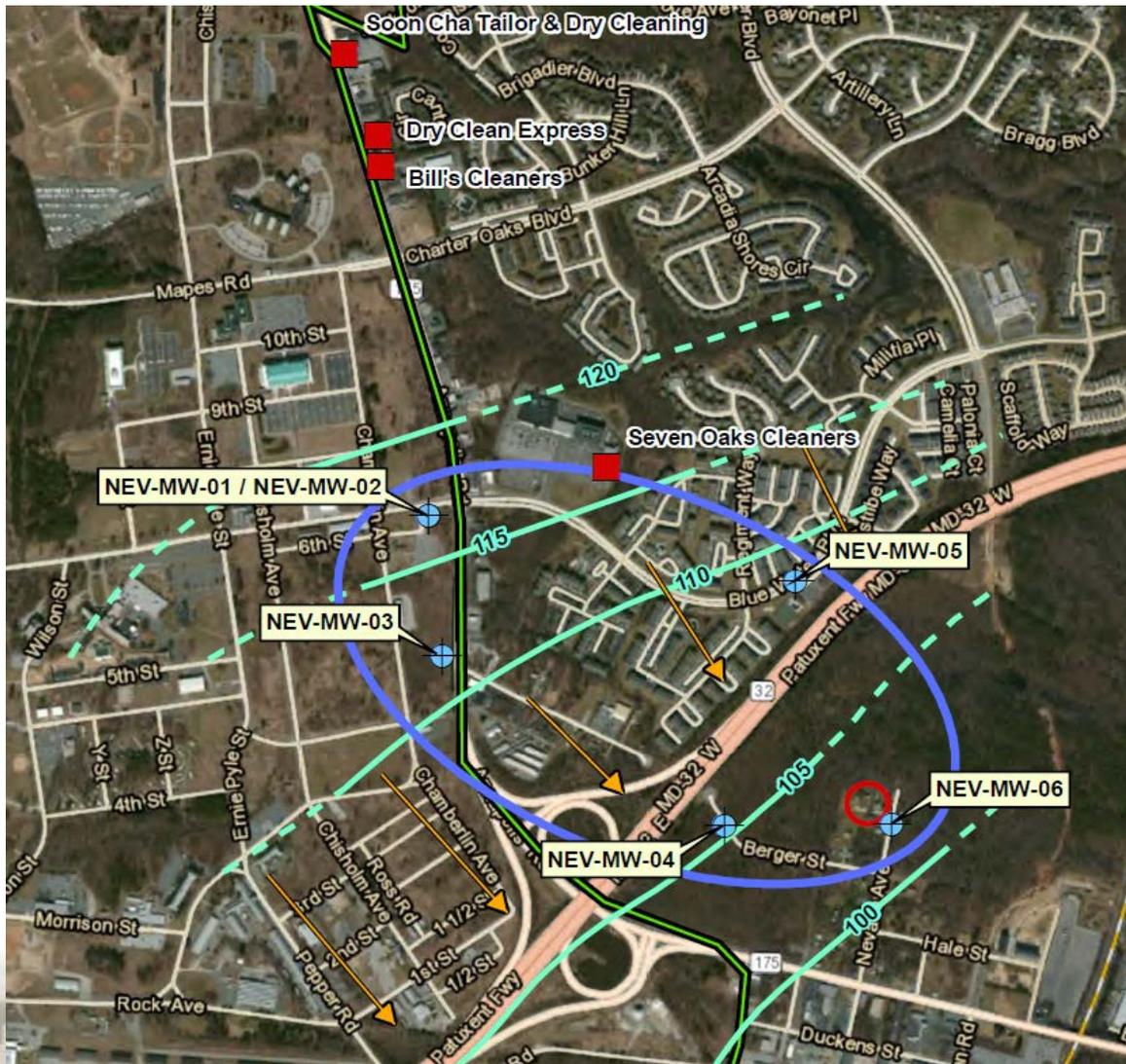




Report Conclusions



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Legend

- FGGM Boundary
 - Nevada Avenue Study Area
 - Nevada Avenue Private Wells
 - Sampling Location - New Well
 - Dry Cleaner
- Lower Patapsco Aquifer
Water Table Elevation Contours
(Sept. 2013)**
- Known
 - Inferred
 - Groundwater Flow Direction

