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Mr. Fran Coulters
U.S. Army Environmental Corps
Building E4480, Beal Road
Aberdeen Proving Ground, MD 21010

Subject:
Group 3, Site 2 (PICA 008) Notice of Groundwater Sampling
Picatinny Arsenal, New Jersey

ENVIRONMENT

Dear Mr. Coulters:

As discussed during our 9 June meeting, ARCADIS is scheduled to conduct groundwater sampling at the Group 3 Sites (PICA 008). The sampling event will include the collection of volatile organic compound (VOC) samples from 22 wells located on-site and biogeochemical parameters from 7 wells located on-site. The objective of the sampling event is to collect a round of site-wide VOC data to provide an updated understanding of the current concentrations present in groundwater at Site 2. It is noted that in May 2010 groundwater samples collected from the Northern and Southern Plumes indicated declined VOC concentrations. These data will be verified during this sampling event and the results integrated into the final remedial design executed in the field.

Date:
June 29, 2010

Contact:
Tim Llewellyn

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410.923.7818

Email:
tim.llewellyn@arcadis-us.com

The field activities will be conducted in accordance with the approved Picatinny Facility-Wide Health and Safety Plan (ARCADIS, 2006), Picatinny Facility-Wide Quality Assurance Project Plan (ARCADIS, 2007), and Picatinny Facility-Wide Field Sampling Plan (ARCADIS, 2007). VOC samples will be collected from passive diffusion bags (PDBs) installed in the wells the week of 28 June 2010 and retrieved for analysis the week of 12 July 2010. Table 1 lists the wells identified for sampling.

Our ref:
GP06PICA.P008

If you have any questions or need additional information, please give me a call at 410.923.7828.

Sincerely,

ARCADIS U.S., Inc.

Tim Llewellyn
Project Manager

Copies:
Ted Gabel (Picatinny)
Nancy Flaherty (USACE)
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Brian Stempowski (ARCADIS)

Imagine the result

Table 1
Proposed Groundwater Monitoring Activities
 Group 3, Site 2 (PICA 008)
 Picatinny Arsenal, New Jersey

Well ID	Location	Unit	Water-Levels	Groundwater Sampling	
				Overburden	Bedrock
2MW-1	Northwest of South Plume	Overburden	X		
2MW-2	Northwest of South Plume	Overburden	X	X ⁽¹⁾	
2MW-3	Southern Area	Overburden	X	X ⁽¹⁾	
2MW-4	Northern Area	Overburden	X	X ⁽¹⁾	
2MW-4D*	Northern Area	Bedrock	X		X ⁽¹⁾
2MW-5	East of South Plume	Overburden	X	X ⁽¹⁾	
2MW-7	South of 2MW-6	Bedrock	X		
2MW-9*	Southern Area	Overburden	X	X ^(1, 2)	
2MW-10*	Southern Area	Overburden	X	X ^(1, 2)	
2MW-10D	Southern Area	Bedrock	X		X ⁽¹⁾
2MW-12	Northern Area	Overburden	X	X ⁽¹⁾	
2MW-14*	Northern Area	Overburden	X	X ^(1, 2)	
2MW-14D	Northern Area	Bedrock	X		X ⁽¹⁾
2MW-16	Southern Area	Overburden	X	X ^(1, 2)	
2MW-17*	Southern Area	Overburden	X	X ^(1, 2)	
2MW-18	Southern Area	Overburden	X	X ⁽¹⁾	
2MW-19	Southern Area	Overburden	X	X ⁽¹⁾	
2MW-20	Southern Area	Overburden	X		
2MW-21	Southern Area	Overburden	X		
2MW-22	Southern Area	Overburden	X	X ⁽¹⁾	
2MW-23	Southern Area	Overburden	X	X ⁽¹⁾	
2MW-24	Southern Area	Overburden	X	X ⁽¹⁾	
2MW47-101*	Southern Area	Overburden	X	X ^(1, 2)	
2MW47-102*	Southern Area	Overburden	X	X ^(1, 2)	
2IW-IA	Southern Area	Overburden	X	X ⁽³⁾	
2IW-IB	Southern Area	Overburden	X	X ⁽³⁾	
Totals:			26	19	3

Notes:

1. Sample will be analyzed for TCL VOCs, TOC and field parameters (pH, temperature, specific conductance, dissolved oxygen, oxidation-reduction potential, and turbidity).
2. Sample will be analyzed for dissolved gasses (methane/ethene/ethane), nitrate, dissolved Iron, sulfate, and alkalinity.
3. Sample will be analyzed for TOC and pH.
4. * - Proposed monitoring location in PICA 008 Remedial Design
5. EVO - Emulsified Vegetable Oil
6. ZVI - Zero Valent Iron