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USACE Triad Workgroup

The District's Role In the Triad

Mary Wichman Johansen
Omaha District

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The District's Role In the Triad

LEAD: Seattle - Kira Lynch

HTRW CX - Cheryl Groenjes

Tulsa - Chris Kennedy

Sacramento - Brad Call

Alaska - David Hanneman

Baltimore - Ray Livermore

Kansas City - Jason Leibbert

Huntsville -Deborah Walker

Savannah- Steven Bath

Omaha - Mary Johansen

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ITA Triad Work Group Support Activities

- General Work Group Communication
- Site-Specific Triad Support
- TQRS Forms
- Triad Case Studies
- Coordinate Training
- Development and Review of FATE
- Review of Draft Guidance Documents

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Site-specific Triad Support

- Identifying projects within the district that could benefit from the dynamic work plan approach.
  - Identify the right PM, RPM and project.
- Develop a technical experts database.
  - People who have experience with a dynamic field technique and are willing to take the time to support an EPA request.

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TECHNOLOGY EXPERTISE

Omaha District Chemist	Phone Number			DQO Evaluation	XRF-Heavy Metals	On-site VOC*-Vapor (air)	On-site VOC*-Water	Other On-site	Diffusion Sampling (VOCs)	Field Test Kits*	Chem/Bio Warfare	Explosives (UXO)	Radiological (GM)	Encore - 5035	Passive/active soil gas
Beran, Jim	402-221-7748				X										
Carrig, Janie	402-221-7754								X			X			
Johansen, Mary	402-221-7755				X			X	X		X				
Meacham, Mark	402-221-7695			X			X	X	X						
Peters, Paula	402-221-7699														
Sorenson, Soren	402-221-7753				X					X					X
Talkington, Danielle	402-221-7740							X		X	X			X	X
Watson, Mike	402-221-7747									X					X
Wilson, Todd	402-221-7750			X	X	X	X		X	X	X	X	X		

On-Site VOC*- includes GC and GC/MS.
Other On-site- includes LC, IR, Fluorescence, bioreporter, or other specialty analyses.
Field Test Kits- includes immunoassay and colorimetric field test kits (explosives, PCBs, TPH, PAH, etc.)
GM- Geiger-Mueller or other.

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Short Resume

- What are you an expert in?
- Where have you used the technique?
- Was it successful?

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Example Resume

–Ms. Johansen has provided technical support on a number of ammunition plant / ordnance investigations and removal actions. This includes the Rapid Response CWM/HTW Removal Action performed at Fort Richardson, Alaska. The project resulted in the excavation, removal, and detonation (ordnance) or storage (CWM) and disposal of the remaining hazardous waste.

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Project Inventory to Support TQRS

- Identify completed projects where field analytical or dynamic sampling was used.

- Identify current of future projects where field analytical or dynamic sampling is expected to be used.

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Project Invento

Project name	Omaha District Chemist	Contaminant of concern	Field technique used	Analytical suite used	Dynamic sampling approach used
NL-TaraCorp, IL	Mary Johansen	Lead in soil	XRF	SW-846 6010/7000	**YES**
Woodbridge, VA	Mary Johansen	PCBs in soil	Immunoassay	SW-846 8082	**YES**
Ft. Ricardson, AK	Mary Johansen	Volatiles in soil	headspace	SW-846 8260	**YES**
Ft. Ricardson, AK	Mary Johansen	Volatiles in soil	Field GC	SW-846 8260	**YES**
Fike-Artel, WV	Mary Johansen	Waste characterization	HazCat	Full Suite	**YES**
Eagle Pitcher, IL	Todd Wilson	Metals in soil	XRF	Sw-846 6010/7000	**YES**
Eglin AFB, FL	Todd Wilson	all	Immunoassay	full-suite	**YES**
Sioux Army Depot, NE	Mike Watson	explosives	Immunoassay	SW-846 8330	**YES**
Myrtle Beach AFB, SC	Janie Carrig	Metals in soil	XRF	SW-846 6010/7000	**YES**
MacDill AFB, FL	Janie Carrig	PCBs in soil	Immunoassay	SW-846 8082	**YES**
MacDill AFB, FL	Janie Carrig	Chlorinated solvents	Field GC	SW-846 8260	**YES**
Moody AFB, GA	Danielle Talkington	TCE in Groundwater	bioreporter	SW-846 8260	**YES**
Pope AFB, NC	Danielle Talkington	PCBs in soil	Immunoassay	SW-846 8082	**YES**
Former Lincoln Atlas Site, NE	Danielle Talkington	In-situ DO in groundwater	Colormetric	EPA 360	**YES**
Small Arms Range, SD	Soren P Sorensen	Lead in soil	XRF	SW-846 6010/7000	**YES**
IAAAP, IA	Soren P Sorensen	Metals in Soil	XRF	SW846 6010/7000	**YES**
IAAAP, IA	Soren P Sorensen	TNT/RDX in Soil	Spectroscopic	SW846 8330	**YES**
Grand Forks, ND	Soren P Sorensen	Petro in Soil	Immunoassay	SW846 8015	**YES**
Hoe Creek, WY	Soren P Sorensen	PAH in Coal	Immunoassay	SW846 8270	**YES**
Lincoln AFB, NE	Soren P Sorensen	Petro in Soil	Passive Soil Gas	SW846 8015	**YES**
Andrews AFB, MD	Soren P Sorensen	Petro in Soil	Passive Soil Gas	SW846 8015	**YES**

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Technology Quick Reference Sheets

- Project inventories will be used to identify which TQRS summaries will be prepared.
- Goal is for each district to complete 4 Technology Quick Reference Forms.
- EPA will use the TQRS inventory to identify projects for a full case narrative.

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Coordination of Training

- Assisting in the development of training materials to be used by all districts.
- Coordinating EPA Internet Seminars
  - http://www.clu-in.org/conf/tio/triad/
- Performing training in your district.
  - Brown bags
  - Project specific
- Assisting EPA with Superfund Work Shops.
  - Region 9
  - Region 5

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EPA Work Shop on Superfund Guidance

- Draft EPA Guidance: Integrating Dynamic Field Activities into the Superfund Response Process (www.epa.gov/superfund/programs/dfa)
  - Overview of dynamic field activities
  - Ensuring data quality using field-based analytical methods (FAMs)
  - Managing dynamic field activities
  - Case Studies

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USACE Resources

- Site Characterization and Analysis Penetrometer System (SCAPS) combines Cone Penetrometer Technology with real-time analysis
  - Petroleum, Volatiles, Explosives, GC/MS
  - 3 Units: Savannah, Kansas City, Tulsa Districts
  - POC John Ballard, Waterways Experiment Station, (601) 634-2446, john.h.ballard@wes02.usace.army.mil

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USACE Resources

- Triad Initiative
  - LEAD: Kira Lynch, Seattle District, (206) 764-6918 kira.p.lynch@usace.army.mil
  - Cheryl Groenjes, CX, (402) 697-2568 cheryl.a.groenjes@usace.army.mil
- Site Specific Technical Assistance IAG/Generic IAG (Fastest)
  - POC Greg Herring, Omaha District, (402) 221- 7712, gregory.c.herring@usace.army.mil

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Reviews

- Field Analytical Technologies Encyclopedia
  - Passive Diffusion Sampling, Direct Push Analytical Systems, Magnetics for Environmental Applications.
  - Http://fate.clu-in.org
- Draft Guidance Document Reviews
  - Integrating Dynamic Field Activities into the Superfund Response Process
  - PM Handbook for Triad Activities (Summer 2002)

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Coordinator's Role

- Participate in monthly conference call.
- Survey the section for information
  - technical expertise database
  - Field Analytical Methods project database
- Assign review tasks, deliver comments.
- Provide training.