UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
SOLID WASTE AND EMERGENCY
RESPONSE

September 30, 2004

MEMORANDUM

SUBJECT: Request for Information for Triad Projects Profile

FROM: Jean M. Balent
Technology Innovation Program
Office of Superfund Remediation and Technology Innovation

The purpose of this memorandum is to request your assistance in gathering information and supporting documents for completed Triad projects. The Technology Innovation Office (now the Technology Innovation Program) has been gathering information on Triad work from EPA and other Federal programs for some time. This information will be published on a new website, the Triad Resource Center (www.triadcentral.org). A portion of this website will be devoted to site-specific examples and case studies in a searchable Triad Project Profile database. These Triad Project Profiles will also be accessible via Clu-in.org and the Brownfields Technical Support Center website.

We are now collecting information on completed Triad projects for this planned database. Tetra Tech EM Inc. (TTEMI), under EPA Contract No. 68-W-02-034, is supporting this task. Enclosed is a worksheet containing a standardized list of project elements which we hope to collect for each project. If you could provide the information in the format shown, it would be appreciated. Furthermore, copies of supporting documents (e.g. Dynamic Work Strategies, Statements of Work, etc.) would be of great assistance as we finalize the profiles. Please contact me to make arrangements to pass on any supporting documents that are available.

Further details on sending the information are provided in the worksheet. Should you have any questions, please do not hesitate to contact me at (703) 603-9924, balent.jean@epa.gov or Mark Colsman of TTEMI at303-313-8284, mark.colsman@ttemi.com. Your response to this request by as soon as possible would be appreciated. Thank you for your assistance.

Enclosure

Jean M. Balent

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Project Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Site Name		Milltown Redevelopment Site
Site ID (if applicable)		
City		Milltown
State		New Jersey
Site Type	**See Site Type Options List at end of form**	
Project Objectives/ Decisions		
Remedial Phase	• Cleanup design or implementation • Site Assessment (Includes ASTM Phase 1/2, PA/SI, HRS scoring, other pre-remedial work) • Site close-out or long-term monitoring • Site Investigation (Includes RI/FS or similar detailed investigation work)	
Triad Elements Implemented (Details below)	Systematic Planning: Yes or No	
	Real-time Measurements and Data Management: Yes or No	
	Dynamic Work Strategies (DWS): Yes or No	

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Project Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Abstract/Project Summary - include date - emphasize the project "highlights" from a Triad perspective		The Milltown Redevelopment site is a Brownfields site in Milltown, New Jersey. A large, diverse stakeholders group was formed to plan, conduct, and oversee the project. The stakeholder group included representatives from federal, state, and local agencies as well as a potential site developer. The primary project goals were to (1) evolve a CSM of site geology, hydrology, and contaminant fate and transport by collecting soil, sediment, and groundwater samples and geologic profiles on a regular grid, and (2) delineate potential areas of concern (AOC) on a closer grid spacing of adaptive sampling locations. The results of the investigation were to be used to develop estimates of contaminated soil volumes that could provide a basis for negotiations with the potential buyer and developer of the property.
Triad Project Benefits		
Cost and Time Savings		
Contaminant(s) of Concern	**See Contaminant Options List at end of form**	

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Project Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Contaminated Media	• Soil • Sludge • Solid (Slag) • Sediment • Groundwater • Off-gases • Dense Non-aqueous Phase Liquids (DNAPLs) • Light Non-aqueous Phase Liquids (LNAPLs) • Soil Gas • Air Particulates and Aerosols • Leachate • Surface Water • Organic Liquids • Fractured Bedrock • Debris (Buildings, Structures, or Equipment) • Acid Mine Drainage • Drinking Water • Wastewater	
Reuse Objective Identified	• Yes • No	
If YES, Proposed Reuse	• Residential • Recreational • Commercial/Industrial • Other (site-specific)	

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Project Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Project Lead Type	• DOE Lead • EPA Lead • Insurance/ Due Diligence • Municipal/ Local Lead • PRP Lead • State Lead • U.S. Air Force Lead • U.S. Army Corps of Engineers Lead • U.S. Army Lead • U.S. Navy Lead	
Project Lead Organization		
Regulatory Lead Program (if applicable)	• Base Realignment and Closure (BRAC) • Insurance/ Due Diligence • RCRA Corrective Action • State Remedial • Superfund Remedial • Superfund Removal • Targeted Brownfields Assessment • Voluntary Cleanup Program	
Triad Project Status	• Investigation Completed • Investigation Ongoing	Investigation Completed

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Project Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Background Information About Site *Discuss (as applicable):* - Site history and past uses. - Must the project be concluded within a set time period? - Was it necessary to develop a project/analyte specific field analytical technology?		• The site is a 22-acre Brownfields site in the heart of downtown Milltown, New Jersey. More than 50 percent of the site is covered with warehouses and industrial buildings. • Industrial use of the site began with a rubber manufacturing plant in the late 1800s succeeded by numerous other industries. • The Milltown Redevelopment Authority and Middlesex County Improvement Agency entered into an agreement with a developer to develop the parcel for mixed uses, including more than 300 age-restricted residential units, commercial space, and open space along Mill Pond, the main waterway through central Milltown. • Principal contaminants of concern (COC) included volatile organic compounds (VOC) (particularly chlorobenzene), PAHs, PCBs, pesticides, and total petroleum hydrocarbons (TPH).
Project Results and Outcomes *Discuss as applicable*: - contaminants and concentrations found - complete pathways to receptors - conclusions from the investigation		The field team was able to sample over 400 locations in slightly more than 5 weeks. The field team collected more than 130 groundwater samples and 600 soil samples, generating over 30,000 analytical results that were loaded into the database and underwent QC review in a short time. The benefits of streamlined data acquisition and processing using Scribe were evident during the dynamic investigation of the chlorobenzene plume (Figure 4). During a site walk-through immediately preceding the Triad investigation, a vat was discovered under a formerly used loading dock that had been obscured by heavy brush. A sample from the vat verified the presence of chlorobenzene. The DWS provided a flexible means to adapt the sampling strategy after the discovery was made in the field. The plume was delineated in approximately 4 days after 63 groundwater and 28 soil samples were collected from 46 sampling locations

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Triad Approach Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Systematic Project Planning *Discuss (as applicable):* - How a CSM was developed - Strategy for uncertainty management - Integration of project decisions and analytical strategy - How project goals were achieved - General discussion on collaboration among parties		
Project Team Description - Types of organizations/ roles/expertise		
Dynamic Work Strategies (DWS) *Discuss (as applicable):* - General data collection approach - How field work was conducted in a dynamic manner - How dynamic activities were communicated among the team		

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Triad Approach Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Decision Logic - How decision logic was designed and implemented for real-time decision-making		
Real Time Measurement Technologies *Discuss (as applicable):* - Activities performed in a fixed lab - Activities performed using field-based methods (sampling as well as analytical tools) - Demonstration of methods applicability? - Whether data were managed and evaluated in the field (e.g. were decision trees used?)		

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Triad Approach Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Technology Category(s) for Sampling and Analysis	• Direct-Push Analytical Systems • Direct-Push Geotechnical Sensors • Direct-Push Groundwater Samplers • Direct-Push Platforms • Direct-Push Soil and Soil-Gas Samplers • Fiber Optic Chemical Sensors • Gas Chromatography • Graphite Furnace Atomic Absorption Spectrometry • Ground Penetrating Radar • Immunoassay • Infrared Spectrometry • Laser-Induced Fluorescence • Magnetics • Mass Spectrometry • Test Kits • X-Ray Fluorescence • Inductively Coupled Plasma Spectrometry (ICP)	
Specific Technology(s)/Model Used (e.g., SCAPs)		
Technology Vendor(s)		
Attached Technology Quick Reference Sheet (TQRS) Form		*None*

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Triad Approach Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Data Quality Assessment - Types of quality control measures used for analytical and sampling quality - Method Performance Attained		

Triad Project Profile

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Triad Approach Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Data Management Approach and Tools (e.g., Spreadsheets, FIELDS, SADA, VSP)		The stakeholders' group identified several concerns through a series of systematic planning meetings, including implementation of a protocol that did not strictly comply with State technical regulations and management of the sheer volume of data that would be generated by field analytical methods over a relatively short, 2-month time frame. EPA's BTSC identified Scribe and Scriblets as DSTs that would meet the project team's needs for data management and address the stakeholder concerns discussed above. Another outcome of systematic planning was the development of a DWS for selecting successive rounds of sampling locations in real time, thus allowing rapid delineation of potential AOCs. Figure 2 presents a generalized schematic diagram of data pathways followed during the field program. Data Management Tools and Procedures Scriblets allows the user to set up a sampling template before field work begins; a field technician uses the template to enter data electronically as they are generated in the field. A sample numbering sequence was assigned in Scriblets before sampling began, providing sample numbers automatically as the sampling event progressed. Sample data, real-time analytical results, and sampling location data (coordinates generated using GPS survey equipment) were entered into Scriblets in the field and then imported to the Scribe database by connecting the PDA to a laptop computer with a USB cable. The result was an all-electronic data pathway that minimized the potential for transcription errors. Scribe facilitated "in the trailer" review of data and enabled the project team to plan the next day's sampling locations before team members left the site for the day (Figure 3). After each round of sampling, the data were imported to Scribe, queried, and exported to AutoCAD through an electronic data format created by the project team in Scribe. Most importantly, Scribe made available in real time many of the features and advantages of a relational database while the team was still in the field. Data Interpretation Tools and Procedures The DWS anticipated the need for rapid delineation of AOCs and provided decision logic diagrams in the work plan to facilitate delineation, even though sampling locations were not specified. After preliminary review in Scribe, data were downloaded to AutoCAD. Because Scribe provided quick turnaround of preliminary sample results, optimal adaptive sampling locations were identified shortly after previously collected sample results were reviewed in Scribe and plotted in AutoCAD. In this manner, the groundwater plume delineation was expedited (see Figure 4) and the CSM was developed to explain the likely source of the

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Supporting Information		
Field	**Pick List** If text is listed in this column, please select an appropriate response from the options listed here.	**Response**
Key Triad Project Milestones - project timeline		
Dates of Operation – Field Work		
Source(s) of Information		
Electronic Documentation of Supporting/Related Information		
Point(s) of Contact		James Mack New Jersey Institute of Technology 138 Warren Street Newark, NJ 07102 Telephone: (973) 596-5857 E-mail: mack@adm.njit.edu Ms. Denise Nickel Senior Project Manager Middlesex County Improvement Authority (MCIA) 101 Interchange Plaza Cranbury, NJ 08512 Telephone: (609) 409-5002 E-mail: DRN@mciauth.com
Last Update		June 9, 2006

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Site Type List

- Aboveground Storage Tank
- Agriculture Applications
- Aircraft Manufacturer
- Aircraft Rework Facility
- Automotive Parts, Storage, and Packaging
- Battery Recycling/Disposal
- Chemical Distributor
- Chemical Reclamation
- Chemical Waste Management and Incineration
- Chlor-alkali Manufacturing
- Coal Gasification
- Contaminated Aquifer - Contamination Source Unknown
- Disposal Pit
- DNAPL Tracer Treatability Study
- DOE Facility
- Drum Storage/Disposal
- Dry Cleaner
- Dumping-Unauthorized
- Electronic Equipment Processing
- Electronics Manufacturing
- Electroplating
- Federal Facility
- Fire/Crash Training Area
- Gaseous Diffusion Plant
- Gasoline Service Station/Petroleum Storage Facility
- Herbicide Manufacturing/Use
- Industrial Landfills
- Inorganic/Organic Pigments
- Lighting Manufacturer
- Machine Shops
- Manufactured Gas Plant (MGP)
- Manufacturing Process
- Medical Wastes
- Metal Ore Mining and Smelting
- Metal Plating
- Municipal Landfills
- Municipal Water Supply
- Munitions Manufacturing/Storage
- Naval Shipyard
- Open Burn/Open Detonation Area
- Other Inorganic Chemical Manufacturing/Use
- Paint/Ink Formulation/Use
- PCB Capacitor Manufacturing/Testing
- Pesticide Manufacturing/Use/Storage
- Petroleum Refining and Reuse
- Petroleum, Oil, Lubricant (POL) Line
- Pharmaceutical Manufacturing Facility
- Photographic Products
- Plastics Manufacturing
- Power Plant
- Pulp and Paper Industry
- Railyard
- Recycling (other than as primary operation)
- Research and development facility
- Road Oiling
- Rocket Maintenance Facility
- Rocket Manufacturing Facility
- Rubber Manufacturing
- Semiconductor Manufacturing
- Shipyard
- Small Arms Firing Range
- Solvent Manufacturing/Packing
- Solvent Recovery Facility
- Spill
- Storage-Drums/Containers
- Surface Disposal Area
- Surface Impoundment/Lagoon
- Telecommunications Manufacturer
- Textile Dye Manufacturing
- Underground Storage Tank
- Uranium Mining
- Vehicle Maintenance
- Warehouse Facility
- Waste Pile
- Waste Treatment Plant
- Wood Preserving

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

Contaminant List

- 1,1,1,2-Tetrachloroethane
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloro-1,2-difluoroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloro-1,2,2-Trifluoroethane
- 1,1,2-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,1-Dimethylhydrazine (UDMH)
- 1,2,3,4,5,6,7,8-Octachlorodibenzofuran
- 1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin
- 1,2,3,4,6,7,8-Heptachlorodibenzofuran
- 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
- 1,2,3,4,7,8,9-Heptachlorodibenzofuran
- 1,2,3,4,7,8-Hexachlorodibenzofuran
- 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
- 1,2,3,4-Diepoxybutane
- 1,2,3,6,7,8-Hexachlorodibenzofuran
- 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
- 1,2,3,7,8,9-Hexachlorodibenzofuran
- 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
- 1,2,3,7,8-Pentachlorodibenzofuran
- 1,2,3,7,8-Pentachlorodibenzo-p-dioxin
- 1,2,3-Trichlorbenzene
- 1,2,3-Trichloropropane
- 1,2,4,5-Tetrachlorobenzene
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene (pseudocumene)
- 1,2-Deoxycorticosterone acetate
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- 1,2-Dichloro-1,1,2,2-tetrafluoroethane
- 1,2-Dichloroacetic acid
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,2-Dinitrobenzene
- 1,2-Diphenylhydrazine
- 1,3,5-Trimethylbenzene
- 1,3,5-Trinitrobenzene
- 1,3-Dichloro-2-propanol
- 1,3-Dichlorobenzene
- 1,3-Dinitrobenzene
- 1,4-Dichlorobenzene
- 1,4-Difluorobenzene
- 1,4-Dinitrobenzene
- 1,4-Naphthoquinone
- 1,4-Phenylenediamine
- 1-Acetyl-2-thiourea
- 1-Chloronaphthalene
- 1-Naphthylamine
- 1-Propanol
- 2 - (2-Methyl-4-chlorophenoxy) propionic acid
- 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
- 2,2',3,3',4,4',5-Heptachlorobiphenyl
- 2,2',3,4,4',5,5'-Heptachlorobiphenyl
- 2,2',3,4,4',5',6-Heptachlorobiphenyl
- 2,2',3,4,4',5'-Hexachlorobiphenyl
- 2,2',3,4',5,5',6-Heptachlorobiphenyl
- 2,2',3,4,5,5'-Hexachlorobiphenyl
- 2,2',3,4,5'-Pentachlorobiphenyl
- 2,2',3,5,5',6-Hexachlorobiphenyl
- 2,2',3,5'-Tetrachlorobiphenyl
- 2,2',4,4',5,5'-Hexachlorobiphenyl

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

- 2,2',4,5,5'-Pentachlorobiphenyl
- 2,2',5,5'-Tetrachlorobiphenyl
- 2,2',5-Trichlorobiphenyl
- 2,2-Bis(ethylferrocenyl) propane (catocene)
- 2,3,3',4',6-Pentachlorobiphenyl
- 2,3',4,4'-Tetrachlorobiphenyl
- 2,3,4,5-Tetrachlorophenol
- 2,3,4,6,7,8-Hexachlorodibenzofuran
- 2,3,4,6-Tetrachlorophenol
- 2,3,4,7,8-Pentachlorodibenzofuran
- 2,3,5,6-Tetrachlorophenol
- 2,3,7,8-Tetrachlorodibenzofuran
- 2,3,7,8-Tetrachlorodibenzo-p-dioxin
- 2,3-Dichlorobiphenyl
- 2,4,5-T
- 2,4,5-TP (silvex)
- 2,4',5-Trichlorobiphenyl
- 2,4,5-Trichlorophenol
- 2,4,5-Trimethylaniline
- 2,4,6-Trichloroanisol
- 2,4,6-Trichlorophenol
- 2,4,6-Trinitrotoluene
- 2,4-D
- 2,4-DB
- 2,4-Diaminotoluene
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2,4-Dinitrotoluene
- 2,5-Dimethylbenzaldehyde
- 2,6-Dichlorophenol
- 2,6-Dinitrotoluene
- 2-Acetylaminofluorene
- 2-Amino-4,6-dinitrotoluene
- 2-Aminoanthraquinone
- 2-Butanone (MEK)
- 2-Chlorobiphenyl
- 2-Chloroethanol
- 2-Chloroethyl vinyl ether
- 2-Chloronaphthalene
- 2-Chlorophenol
- 2-Chlorotoluene
- 2-Cyclohexyl-4,6-dinitrophenol
- 2-Hexanone
- 2-Hydroxypropionitrile
- 2-Methyl nitroaniline (MNA)
- 2-Methylnaphthalene
- 2-Methylphenol (o-cresol)
- 2-Naphthylamine
- 2-Nitroaniline
- 2-Nitrophenol
- 2-Nitropropane
- 2-Nitrotoluene
- 2-Pentanone
- 2-Picoline
- 3,3'-Dichlorobenzidine
- 3,3'-Dimethoxybenzidine
- 3,3'-Dimethylbenzidine
- 3-Amino-9-ethylcarbazole
- 3-Chloromethylpyridine hydrochloride
- 3-Chloropropionitrile
- 3-Hydroxycarbofuran
- 3-Methylcholanthrene
- 3-Methylphenol (m-cresol)
- 3-Nitroaniline
- 3-Nitrotoluene
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- 4,4'-Methylenebis(2-chloroaniline)
- 4,4'-Oxydianiline
- 4,6-Dinitro-2-methyl phenol
- 4,6-Dinitro-o-sec-butyl phenol
- 4-Amino-2,6,dinitrotoluene
- 4-Amino-2,6-dinitrotoluene
- 4-Aminobiphenyl
- 4-Bromophenyl phenyl ether
- 4-Chloro-1,2-phenylenediamine
- 4-Chloro-1,3-phenylenediamine
- 4-Chloro-3-methylphenol
- 4-Chloroaniline
- 4-Chlorophenyl phenyl ether
- 4-Methyl-2-pentanone (MIBK)
- 4-Methylphenol (p-cresol)
- 4-Nitroaniline
- 4-Nitrobiphenyl
- 4-Nitrophenol
- 4-Nitrotoluene
- 5,5-Diphenylhydantoin
- 5-Chloro-2-methylaniline
- 5-Nitroacenaphthene
- 5-Nitro-o-anisidine
- 5-Nitro-o-toluidine
- 7,12-Dimethylbenz(a)anthracene
- a-BHC
- Acenaphthene

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

- Acenaphthylene
- Acetone
- Acetonitrile
- Acetophenone
- Acetylene
- a-Chlordane
- Acrolein (propenal)
- Acrylamide
- Acrylic acid
- Acrylonitrile
- Actinium (Ac)
- Alachlor
- Aldicarb (temik)
- Aldicarb sulfone
- Aldicarb sulfoxide
- Aldrin
- Allyl alcohol
- Allyl chloride
- Aluminum
- Aluminum beryllium (alloy)
- Aluminum borohydride
- Aluminum boron (alloy)
- Aluminum diboride
- Aluminum hydride
- Aluminum perchlorate
- Americium
- Aminoazobenzene
- Ammonia
- Ammonia triborane
- Ammoniated aluminum iodide
- Ammoniated beryllium iodide
- Ammoniated calcium iodide
- Ammoniated copper nitrate
- Ammoniated lithium iodide
- Ammoniated magnesium iodide
- Ammonium acetate
- Ammonium aluminum perchlorate
- Ammonium azide
- Ammonium bicarbonate
- Ammonium bifluoride
- Ammonium borofluoride
- Ammonium carbonate
- Ammonium fluoride
- Ammonium iodide
- Ammonium nitrate
- Ammonium oxalate
- Ammonium perchlorate
- Ammonium periodate
- Ammonium picrate
- Ammonium sulfate
- Amyl ferrocene
- ANFO
- Anilazine
- Aniline
- Anthracene
- Antimony
- Aramite
- Argon
- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Arsenic
- Asbestos
- Aspon
- Atrazine
- Azinphos-ethyl
- Azinphos-methyl
- Barban
- Barium
- Barium peroxide
- Basic lead carbonate
- Benz(a)anthracene
- Benzaldehyde
- Benzene
- Benzene-toluene-ethylbenzene-xylene (BTEX)
- Benzidine
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(ghi)perylene
- Benzo(j)fluoranthene
- Benzo(k)fluoranthene
- Benzoic acid
- Benzyl alcohol
- Benzyl chloride
- Beryllium
- Beryllium borohydride
- Beryllium hydride
- Beryllium nitride
- Bis(2-chloroethoxy)methane
- Bis(2-chloroethyl) ether
- bis(2-Chloroethyl)sulfide
- Bis(2-chloroisopropyl) ether
- Bis(2-ethylhexyl) adipate (DOA)
- Bis(2-ethylhexyl) phthalate
- Bolstar (sulprofos)
- Borine ammoniate
- Boron
- Bromate
- Bromine pentafluoride
- Bromoacetone
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- Bromoxynil
- Butanal (butyraldehyde)
- Butyl rubber
- Butyl benzyl phthalate
- Butylate
- Butylbenzene
- Butylmethyl ether
- Cadmium
- Calcium
- Calcium boride
- Calcium Carbide
- Calcium carbonate
- Calcium chromate
- Calcium formate
- Calcium hydride
- Calcium nitrate
- Calcium peroxide
- Calcium silicide
- Candelilla wax
- Captafol
- Captan
- Carbaryl (sevin)
- Carbazole

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

- Carbofuran (furadan)
- Carbon disulfide
- Carbon tetrachloride
- Carbophenothion
- Carboxy term. polybutadiene
- Castor oil
- Cellulose
- Cerium
- Cerium nitride
- Cesium
- Cesium 137
- Cesium azide
- Cesium carbonate
- Cesium hydride
- Cesium nitrate
- Cesium perchlorate
- Cesium tungsten fluoride
- Chemical and biological warfare agents
- Chloral hydrate
- Chlordane
- Chlorfenac
- Chlorfenvinphos
- Chloride
- Chlorine
- Chlorine pentafluoride
- Chlorine trifluoride
- Chloroacetic acid (CCA)
- Chlorobenzene
- Chlorobenzilate
- Chloroethane
- Chloroform
- Chloromethane
- Chloroprene
- Chlorpyrifos
- Chlorpyrifos methyl
- Chromium
- Chrysene
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- cis-1,4-Dichloro-2-butene
- Coal tar
- Cobalt
- Cobalt 60
- Comp B
- Compound 4 (C-4)
- Copper
- Copper chloride
- Copper chromite
- Copper sulfide
- Corrosives
- Coumaphos
- Creosote (coal tar)
- Creosote (wood)
- Crotonaldehyde
- Crotoxyphos
- CTPB
- Curium
- Cyanide
- Cyclohexane
- Cyclohexanone
- Cyclotetramethylenetetranitramine (explosive)
- Cycolate
- Dalapon
- d-BHC
- Decaborane A
- Decaborane B
- Decacylene
- Decadiborane
- Decanal
- Decane
- Demeton
- Diallate
- Diazinon
- Dibenz(a,h)acridine
- Dibenz(a,h)anthracene
- Dibenz(a,j)acridine
- Dibenzo(a,e)pyrene
- Dibenzo(a,h)pyrene
- Dibenzo(a,i)pyrene
- Dibenzofuran
- Diborane
- Dibromochloromethane
- Dibromomethane
- Dibutyl phthalate
- Dicamba
- Dichlone
- Dichlorobenzenes
- Dichlorodifluoromethane
- Dichlorofenthion
- Dichloromethane
- Dichloroprop
- Dichlorvos
- Dicofol
- Dicrotophos
- Dicyclopentadiene
- Dieldrin
- Diesel fuel
- Diesel oil
- Diethyl ether
- Diethyl phthalate
- Diethyl sulfate
- Diethylbenzene
- Diethylstilbestrol
- Difluoromethane
- Diglycidyl ether of bisphenol A (DER 332)
- Dihydrosaffrole
- Diisobutyl acetate
- Diisocyanate
- Diisopropyl ether
- Dimethoate
- Dimethyl disulfide
- Dimethyl phthalate
- Dimethylaminoazobenzene
- Dimethylformamide (DMF)
- Dinocap
- Di-n-octyl phthalate
- Dinoseb
- Di-n-Propyl adipate
- Dioxacarb
- Dioxane
- Dioxathion
- Dioxins and furans
- Diphenylamine
- Diquat
- Disulfoton
- Diuron
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Endrin ketone
- Epichlorohydrin
- EPN
- Epon 828
- Epoxy 201
- Ethanol
- Ether
- Ethion
- Ethoprop
- Ethyl acetate
- Ethyl alcohol
- Ethyl carbamate
- Ethyl centralite
- Ethyl methacrylate

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

- Ethyl methanesulfonate
- Ethyl parathion
- Ethyl tert-butyl ether
- Ethylacrylate acrylic acid
- Ethylbenzene
- Ethylene carbonate
- Ethylene dibromide (EDB)
- Ethylene dihydrazine
- Ethylene glycol
- Ethylene oxide
- Europium
- Explosive D
- Explosives, propellants, and pyrotechnics
- Famphur
- FEFO
- Fenitrothion
- Fensulfothion
- Fenthion
- Fluchloralin
- Fluoranthene
- Fluorene
- Fluorine
- Fluorobenzene
- Fonophos
- Formaldehyde
- Freon
- Fuels and distillates
- Gasoline
- GB (chemical warfare agent)
- g-BHC (Lindane)
- g-Chlordane
- Glutamic acid
- Glycidyl azide
- Guanylazide nitrate (GAN)
- Halogenated SVOCs
- Halogenated VOCs
- HCFC 11
- HCFC 113
- HCFC-123
- HD (chemical warfare agent)
- Helium
- Heptachlor
- Heptachlor epoxide
- Heptanal
- Heptane
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclohexane (HCH)
- Hexachlorocyclopentadiene
- Hexachloroethane
- Hexachlorophene
- Hexachloropropene
- Hexadecane
- Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
- Hexahydro-1,3,5-trinitro-s-triazine (RDX)
- Hexamethylene diisocyanate (HMDI)
- Hexamethylphosphoramide
- Hexanal (hexaldehyde)
- Hexane
- HTPB
- HTPB curative
- HTPB nitrile
- HYCAT
- Hydrazine
- Hydrazine diborane
- Hydrogen
- Hydrogen azide
- Hydrogen cyanide
- Hydrogen fluoride
- Hydrogen peroxide
- Hydrogen sulfide
- Hydroquinone
- IDP
- Indene
- Indeno(1,2,3-cd)pyrene
- Inorganic cyanides
- Iodic acid
- Iodine 131
- Iodine pentafluoride
- Iodine pentoxide
- Iodine trichloride
- Iodomethane
- IRFNA
- Iron
- Iron carbonate
- Iron oxide
- Isobutyl alcohol
- Isodrin
- Isooctane
- Isophorone
- Isophorone diisocyanate (IPDI)
- Isopropyl alcohol
- Isopropyl acetate
- Isopropyl cellosolve (IPE)
- Isopropylbenzene
- Isosafrole
- Isovaleraldehyde
- JP-4
- JP-5
- Kepone
- Kerosene
- Lead
- Lead 210
- Lead 2-ethyl hexoate
- Lead acetyl salicylate
- Lead azide
- Lead beta recorcylate
- Lead iodate
- Lead nitrate
- Lead salicylate
- Lead styphnate
- Leptophos
- Lewisite (chemical warfare agent)
- Linuron
- Lithium
- Lithium aluminum perchlorate
- Lithium azide
- Lithium beryllium hydride
- Lithium carbide
- Lithium dicyanamide
- Lithium nitrate
- Lithium periodate dihydrate
- LP-33
- M1
- M30
- M6
- Magnesium
- Magnesium aluminum hydride

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

- Magnesium nitrate hexahydrate
- Magnesium perchlorate
- Malathion
- Maleic anhydride
- Malononitrile
- Manganese
- Manganese dioxide
- MCPA
- MCPP
- Mercurous azide
- Mercury
- Merphos
- Mestranol
- Metals and metalloids
- Methacrylonitrile
- Methane
- Methanol
- Methapyrilene
- Methiocarb (mesurol)
- Methomyl (lannate)
- Methoxychlor
- Methyl acetate
- Methyl methacrylate
- Methyl methanesulfonate
- Methyl parathion
- Methyl tert butyl ether
- Methyl-2,4,6-trinitrophenylnitramine
- Methyl-2,4,6-trinitrophenylnitramine (tetryl)
- Methylated spirits
- Methylcyclohexane
- Methylene chloride
- Methyl-tert-butyl ether
- Metolachlor
- Mevinphos
- Mexacarbate
- Mineral oil (hydraulic oil)
- Mineral spirits (varsol)
- Mirex
- Miscellaneous contaminants (not found in other contaminant groups)
- Molinate
- Molybdenum
- Monobasic cupric
- Monobasic cupric salicylate
- Monocrotophos
- Monomethyl hydrazine (MMH)
- Monuron
- m-Tolualdehyde
- m-Xylene
- N,N-Dimethylaniline
- Naled
- n-Amyl alcohol
- Naphthalene
- n-Butanol
- Neodymium
- Neptunium 237
- Nickel
- Nickel carbide
- Nickel cyanide
- Nickel oxide
- Nicotine
- Nitrate
- Nitric acid
- Nitrile
- Nitrite
- Nitrobenzene
- Nitrocellulose
- Nitroethane
- Nitrofen
- Nitrogen tetroxide
- Nitrogen trifluoride
- Nitroglycerin
- Nitroguanidine
- Nitroquinoline-1-oxide
- Nitrous oxide
- N-Nitrosodibutylamine
- N-Nitrosodiethylamine
- N-Nitrosodimethylamine
- N-Nitrosodi-n-propylamine
- N-Nitrosodiphenylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopiperidine
- N-Nitrosopyrrolidine
- No. 2 fuel oil
- Nonanal
- Nonane
- Nonhalogenated SVOCs
- Nonhalogenated VOCs
- Nonmetallic toxic elements
- Normal hexyl carborane
- N-propyl acetate
- N-Propylamine
- N-Propylbenzene
- O,O,O-Triethyl phosphorothioate
- o-Anisidine
- Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
- Octamethyl pyrophosphoramide
- Octanal
- O-Methylstyrene
- Organic cyanides
- Organic nitrogen
- Organometallic pesticides and herbicides
- o-Tolualdehyde
- o-Toluidine
- Oxalic acid
- Oxygen
- Oxygen difluoride
- o-Xylene
- Ozone
- Paraffinic oil
- Paraldehyde
- Parathion
- PBAN
- p-Benzoquinone
- p-Chloro-m-creosol
- p-Cresidine
- Pebulate
- Pentachlorobenzene
- Pentachloroethane
- Pentachloronitrobenzene
- Pentachlorophenol

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

- Pentaerythritol tetranitrate
- Pentanal (valeraldehyde)
- Perchloric acid (anhydrous)
- Petroleum jelly
- Phenacetin
- Phenanthrene
- Phenobarbital
- Phenol
- Phenols
- Phorate
- Phosalone
- Phosmet
- Phosphamidon
- Phosphate
- Phosphine
- Phosphorous
- Phthalates
- Phthalic anhydride
- Picloram
- Piperonyl sulfoxide
- p-Isopropyltoluene
- Plutonium
- Pollonium 210
- Polybutadiene
- Polybutene
- Polychlorinated biphenyls (PCBs)
- Polycyclic aromatic hydrocarbons (PAHs)
- Polyethylene
- Polyethylene glycol (carbowax)
- Potassium
- Potassium azide
- Potassium iodate
- Potassium nitrate
- Potassium peroxide
- Promecarb
- Pronamide
- Propanal (propionaldehyde)
- Propargyl alcohol
- Propionitrile (ethyl cyanide)
- Propoxur (baygon)
- Propylthiouracil
- p-Tolualdehyde
- p-Xylene
- Pyrene
- Pyridine
- R-22 (chlorodifluoromethane)
- R45
- R45M
- Radioactive materials
- Radium
- Radon
- Red fuming nitric acid
- Red phosphorus
- Resorcinol
- RJ-4
- RJ-5
- Ronnel
- Rotenone
- RP-1
- Ruthenium-106
- Safrole
- sec-Butylbenzene
- Selenium
- Shell epon 815
- Siduron
- Silicon tetrafluoride
- Silicone
- Silver
- Silver iodate
- Silver iodide
- Silver nitrate
- Silver oxide
- Simazine
- Sodium
- Sodium azide
- Sodium chlorate
- Sodium nitrate
- Sodium perchlorate
- ß-BHC
- ß-Propiolactone
- Stirophos (tetrachlorovinphos)
- Stoddard solvent
- Strontium
- Strontium 90
- Strychnine
- Styrene
- Sulfallate
- Sulfate
- Sulfides
- Sulfur dioxide
- Sulfur hexafluoride
- Sulfur trioxide
- Sulfuric acid
- TBF (tert-butyl formate)
- t-Butyl alcohol
- Technetium
- Teflon
- TEPP
- Terbufos
- tert-Amyl methyl ether
- tert-Butylbenzene
- Tertiary-amyl methyl ether
- Tetrachloroethene
- Tetrachlorothiophene
- Tetrachlorvinphos
- Tetraethyl dithiopyrophosphate
- Tetraethyl lead
- Tetraethyl pyrophosphate
- Tetrahydrodicyclopentadiene
- Tetrahydrofuran
- Tetramethyl lead
- Thallium
- Thiocarbonate
- Thiocyanate
- Thionazin (zinophos)
- Thiophenol (benzenethiol)
- Thorium
- Thorium
- Tin
- Titanium
- Tokuthion (Protothiofos)
- Toluene
- Toluene diisocyanate
- Total heptachlorodibenzofuran
- Total heptachlorodibenzo-p-dioxin
- Total hexachlorodibenzofuran
- Total hexachlorodibenzo-p-dioxin
- Total pentachlorodibenzofuran
- Total pentachlorodibenzo-p-dioxin

Form to Submit a New Profile

Please complete all fields. If you have any questions on this form, please contact Mark Colsman of TTEMI, 303-313-8284, mark.colsman@ttemi.com. Completed forms should be sent to Mark Colsman of TTEMI by email.

- Total petroleum hydrocarbons
- Total tetrachlorodibenzofuran
- Total tetrachlorodibenzo-p-dioxin
- Toxaphene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- trans-1,4-Dichloro-2-butene
- Triazine
- Tributyl phosphate
- Tricalcium phosphate
- Trichlorfon
- Trichloroethene
- Trichlorofluoromethane
- Trichloronate
- Trifluralin
- Triglycol dichloride
- Trimethyl phosphate
- Trinitromethane
- Tri-o-cresylphosphate
- Triphenyl bismuth
- Tri-p-tolyl phosphate
- Tris(2,3-dibromopropyl) phosphate
- Tritium
- TRPH
- Tungsten carbonyl
- Turpentine
- Uranium
- Urea
- Vanadium
- Vapona
- Vernolate
- Vinyl acetate
- Vinyl chloride
- Viton A
- VX (chemical warfare agent)
- Xylenes
- Yellow iron oxide
- Zecorez
- Zinc
- Zinc cyanide
- Zinc oxide
- Zirconium hydride
- α,α-Dimethylphenethylamine