Quality Control Plan

Groundwater Remedial Investigation, TNT and Red Water Ponds Areas, Former Plum Brook Ordnance Works Sandusky, Ohio

Prepared By:

IT Corporation
312 Directors Drive
Knoxville, Tennessee 37923

Submitted to:

U.S. Army Corps of Engineers, Nashville District
Post Office Box 1070
Nashville, Tennessee 37202-1070

Revision 0

Delivery Order 0010
IDT Contract DACA62-00-D-0002
IT Project Number 825635

April 10, 2001

SIGNATURE PAGE

Quality Control Plan
Groundwater Remedial Investigation, TNT and Red Water Ponds Areas
Former Plum Brook Ordnance Works, Sandusky, Ohio

Delivery Order 0010
Contract Number DACA62-00-D-0002
IT Project Number 825635

Submitted By:

_____ _____

Mikael L. Spangberg
Project Manager
IT Corporation

Date

Accepted By:

_____ _____

Linda Ingram
Technical Coordinator, Technical Management Section
U.S. Army Engineer District, Nashville

Date

_____ _____

John W. Hall
Chief, Environmental Restoration Branch
U.S. Army Engineer District, Nashville

Date

area of concern's DOD activity history. In addition, IT will propose the focused background constituents to be used in the trend analysis described in Task 12.

Under this task, IT will participate in a project planning meeting involving CELRN and Ohio Environmental Protection Agency (OEPA) at OEPA offices in Dayton, Ohio. In addition to the meeting and to facilitate discussions, IT will prepare up to four sets of four plate sized maps addressing OEPA's data request and presentation of groundwater flow information. Two principal IT personnel will attend this meeting.

Task 2 – Site-Specific Safety and Health Plan (SSHP)

IT Corporation will prepare a combined SSHP for work at the TNT and RWP Areas as an addendum to the PBOW Site-Wide Safety and Health Plan (SHP) of the *Site Investigations and Groundwater Investigations Work Plans* (IT, September 1996). The SSHP will be prepared under the supervision of a CIH, and will comply with the following requirements, as a minimum: (1) Federal Acquisition Regulations (FAR), Clause 52.236-13, *Accident Prevention;* (2) U.S. Army Corps of Engineers (AE), *Safety and Health Requirements Manual*, EM 385-1-1, October 1992; (3) Occupational Safety and Health Administration (OSHA) *Construction Industry Standards*, 29 CFR 1926; and *General Industry Standards*, 29 CFR 1910; with particular emphasis on 29 CFR 1910.120, *Hazardous Waste Site Operations and Emergency Response*; (4) NIOSH / OSHA / USCG / EPA, *Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities*, October 1985; (5) USACE *Safety and Occupational Health Document Requirements for Hazardous, Toxic, and Radioactive Waste (HTRW) Activities*, Appendix B, ER 385-1-92; (6) USACE Contractor Guidelines for (1) *The Preparation of the Accident Prevention Proposal* (Safety Plan), and (2) *The Preparation of the Activity Hazard Analysis*, ORNP 385-1-2, May 1986; (7) Nuclear Regulatory Commission Standards (10 CFR 19 – 171); (8) Other applicable federal, state, and local safety and health requirements.

Task 3 – Monitoring Well Installation

IT will install ten (10) bedrock and fifteen (15) overburden, 2 inch diameter, monitoring wells under this task. Three of the bedrock wells will monitor groundwater coming onto PBS (background wells); two will monitor groundwater leaving PBS at the northern property boundary area; one will monitor groundwater leaving TNT B Area; one will monitor groundwater leaving Pentolite Red Water Ponds Area and entering the Reactor area; and three will be paired with an overburden well to monitor groundwater and investigate the vertical connectivity between the overburden and bedrock groundwater within each of the TNT areas. The fifteen (15) new overburden wells will be installed as necessary upgradient, within, and downgradient of the TNT Areas based on existing data and data that will be acquired during execution of Direct Push Sampling. The intent is to adequately characterize the overburden groundwater of each particular TNT area including background constituent levels. The general locations and estimated depths for each new well are presented in Appendix A, Table 2 of the SOW. The target depth of each new well

will be based on well construction information from existing wells and direct push information from near the new well location. Actual installation depths will be adjusted in the field as necessary to field conditions.

Each bedrock well installed within a TNT area is intended to monitor that TNT area's highest bedrock groundwater contamination and will be determined by the direct push sampling described in Section 3.5.2 of the SOW and bedrock groundwater flow diagrams. If a TNT area bedrock well that is planned to be paired with a new overburden well is actually installed near enough to an existing overburden well, the new overburden well installation may be redirected to be paired with an existing unpaired bedrock well elsewhere at that TNT area.

A qualified geologist or geotechnical engineer will be on site for all drilling, installation, development, and testing operations. Well installation and drilling methods will be in accordance with the procedures and requirements described in EM 1110-1-4000, Monitor Well Design, Installation, and Documentation at Hazardous and/or Toxic Waste Sites, and applicable State regulations and requirements. In addition, surface well completions will include provisions to resist frost heave. IT will use "double casing" as described in Section 3-10 of EM 1110-1-4000 to install a well through a contaminated upper zone as necessary. The plan for meeting applicable procedures and requirements will be included in the SSAP if not covered in the approved Site-Wide SAP. Any variation from the 1998 November, EM 1110-1-4000, guidelines will be proposed for approval in the SSAP.

The well screen will be a minimum of 10 feet in length and will be constructed of the same material as, and compatible in size to, the riser pipe. Well screen length in the overburden wells may be less than 10 feet as necessary based on actual depth to top of rock. The screen will be non-contaminating, factory constructed slotted or preferably "continuous wrap" design.

Soil and rock sampling will be continuous for the entire monitoring well boring. The geologist or geotechnical engineer will visually classify and log all borehole material according to the Unified Soil Classification System and EM 1110-1-4000, including making a photographic record of the core. Soil overburden material will be sampled continuously for the purposes of visual geotechnical classification of the borehole material.

IT will obtain the services of a licensed Professional Land Surveyor to establish coordinates and elevations according to EM 1110-1-4000 for each new well and direct push sample location. A notch will be filed into the top of the well riser pipe and marked, to serve as a measurement point. The coordinates will be to the closest 1 foot and referenced to the State Plane Coordinate System. Elevations will be surveyed to within +/- 0.01 feet referenced to the National Geodetic Vertical Datum of 1929. A permanent tag will be affixed to the outer steel protective casing which clearly identifies well number, USACE- Nashville District, adjusted top of casing elevation, bottom of well elevation, and date of installation.

both soil and groundwater as well as historical DOD activities. Sample analyses are based on Tables 3a, 3b, and 3c in Appendix A of the SOW.

Direct Push Sampling. 135 direct push overburden groundwater samples will also be collected and analyzed for the parameters specified in Table 4 in Appendix A of the SOW. Forty-five (45) direct push sample points will be advanced in each TNT Area, for a total of 135 direct push points.

Well Repairs. During purge/sampling of existing monitoring wells, IT will conduct an evaluation of the condition of the surface components of the sampled wells and provide recommendations and an estimate of the cost of necessary repairs to CELRN and CELRH. Upon selection of which of the recommended repairs are to be undertaken, IT will subcontract well repairs as required up to a maximum of $5,000. Should required repairs cost more than the budgeted $5,000, additional funds will be required to complete such repairs.

Sampling Procedures. Purging and sample collection will be in accordance with the requirements set forth in EM 1110-1-4000 and EM 200-1-3. In addition to the primary water samples, certain field control samples will be collected described in the SOW. It will IT coordinate with the primary and QA laboratories as to the volumes of sample necessary to satisfy all internal laboratory QC requirements. Any laboratory performing work for the USACE will comply with ISO/IEC Guide 25, General Requirements for the Competence of Calibration and Testing Laboratories, 1990 Edition and Updates. All samples will be collected and analyzed in conformance with applicable EPA and USACE requirements, using techniques and equipment described in the approved SSAP Addendum or Site-Wide SAP.

Task 6 - Soil Sampling

IT will complete soil sampling as specified in the SOW under this task. Samples will be collected as follows:

Leaching Characteristics. IT will collect 20 source area samples from 10 direct push locations from areas of and below known hotspots. Enough material will be collected from each location so samples can be split. Half of the split samples shall be analyzed by traditional methods identified in Table 7 of Appendix A of the SOW. The remaining portion of the split sample shall be extracted using the Synthetic Precipitation Leaching Procedure (SPLP) extraction SW-846 method 1312. After extraction these samples will be analyzed using the methods identified in the SOW.

Data Gaps. Previous investigations have been conducted at the WARWP and PRRWP areas. To provide additional information, IT will collect four additional soil samples from these areas; two samples from each of two direct push points. The first direct push point will be installed near DP-10 in the Pentolite Road Red Water Ponds and one sample

will be collected from beneath 10' and the other sample will be collected from directly above the water table. The other direct push point will be installed near DP-13 at the West Area Red Water Ponds and one sample will be collected from beneath 10' and the other sample will be collected from directly above the water table. Samples will be analyzed as specified in the SOW.

Task 7 – Analytical Requirements

Sub-Task 7.1 – QA Lab Oversight.

IT will contract and provide oversight of the Quality Assurance (QA) laboratory and the CQAR subcontractor under this task.

Sub-Task 7.2 – Analytical Work

IT will manage all analytical data beginning at the point of sampling, continuing through laboratory analysis, data reporting, data evaluation, and culminating with the required electronic data submittal. Under this task, confirmation soil samples, surface water samples, and sediment samples will be packaged and shipped from the field, submitted for analysis, and tracked through the laboratory system. Reported data will be reviewed, validated as required, and entered into an Oracle database for use by IT technical staff in the preparation and submittal of required reports, statistical analyses, and electronic data submittals.

All non-QA samples will be analyzed by Severn Trent Laboratories located in Knoxville, Tennessee, or an equivalent, qualified laboratory. The most recently promulgated methods from EPA's SW-846 Test Methods for Evaluating Solid Wastes as listed in Tables 7, 8, and 9 of the SOW will be used for all requested analyses as available.

The analytical program defined by the SOW includes the submittal of CLP-like data packages for analyses, project-specific QA/QC, electronic data deliverables and the initiation, maintenance, completion, and submittal of all required documentation (e.g. cooler receipt forms, internal chain of custody, etc.). Analytical costs presented under this task are based on the use of specified methods with batch QC, where applicable, and standard laboratory Level IV reports.

Quality Assurance Sample Collection and Analysis. IT will coordinate, collect, package, and ship the required frequency (10%) of QA samples to a QA laboratory meeting the requirements specified in the SOW for this effort. IT will be responsible for collecting, packaging, coordinating and shipment of the QA samples to the QA lab. The QA sample will generally be one sample taken from a homogenized triplicate set. The triplicate set includes the primary sample, the QC duplicate (both sent to the primary lab) and the QA triplicate (sent to the QA lab). When samples are being collected for volatile analysis, the triplicate set will not be homogenized. A trip blank will be included when

aqueous samples are included for VOC analysis. All shipments will include a temperature blank.

Analytical Data Review, Reporting, and Assessment Requirements. Data will be extensively reviewed by the laboratory in accordance with the three-level process specified in EM 200-1-3. Documentation of this review will be included in the data package(s) submitted. A systematic technical review and validation will be performed for all environmental samples and field duplicates to ensure data quality and overall accuracy. This evaluation will include, but is not limited to, the review of all sample collection documentation, analytical and reporting documentation, compliance with all extraction and analysis holding times, compliance with all associated QC criteria (surrogates, internal standards, MS/MSDs, LCS, method / preparation blanks, initial and continuing calibration data), evaluation and qualification of the data as compared to all associated field and laboratory blank samples (5x/10x Rule) and review of all field duplicate results. The extent of the review and validation will be comparable to a Level III data validation. This evaluation process will provide all necessary data to determine the success of the analytical program with respect to the PARCC goals established, the data quality objectives which determine these goals, and the generation of definitive data for the project. Basic data usability and application will be noted in the evaluation summary and more specifically in the data qualification. The Functional Guidelines for Organic and Inorganic Review (February 1993 and 1994) will be followed in the evaluation as well as the submitted laboratory SOPs and the guidance and project limits presented in the SSAP.

A verification of all electronic data submitted by the laboratory will be performed. This verification begins with the transfer or loading of data into the Oracle database. The data loading process involves a number of data checks that originate in the field sample tracking system and additional relational checks to ensure that the data were created and submitted under the specifications required and in accordance with appropriate reporting procedures. Subsequently, additional data entry is performed which adds the qualification data generated during the data review and validation process. At this point electronic data are also compared to results reported on hardcopy to ensure accuracy for database reporting.

Data will be reported in a "CLP like" format and will be of sufficient quality for the Chemical Quality Assurance Report submittal and be fully validated. At a minimum, the following will be included with the submittal of the analytical data: chain of custody forms, cooler receipt forms, copies of telephone conversations of record, review checklists, dates of sample collection, receipt, preparation, extraction and analysis, dilutions, compounds analyzed, results, units, and detection limits. For samples that have been diluted, both the original and the diluted result will be reported. Batch numbers and QC acceptance criteria will be clearly identified. QC information will be specific to the field sample batch. All of the associated method QC information will be reported,

including results of surrogates, spikes, blanks, duplicates, matrix spikes, matrix spike duplicates and any other method-specific QC that may have been run. Spiking levels will be clearly shown. The data package will include a case narrative prepared by the laboratory that summarizes any problems or unusual circumstances encountered during the analyses that may have affected the reported value. The case narrative will include any QC results which are outside the control limits specified by the laboratory, holding time failures, suspected matrix effects, blank contamination, instrument problems and documentation of the corrective action.

IT will prepare a table that relates all samples sent to the QA laboratory to their corresponding field and QC samples. A copy of this table will be supplied to the QA Laboratory and CELRN.

Task 8 - Investigation Derived Waste (IDW)

IT will collect investigation derived wastes (IDW), including soil cuttings, decontamination fluids, and personal protective equipment (PPE) which can not be decontaminated and place them in properly labeled, sealed drums. IDW will be segregated by type and origin; there will be no intermixing of media. All IDW drums will be stored on bermed pallets to prevent release of the material to the soil in the event of drum failure. The SSAP will include procedures for IDW management (e.g. drumming, labeling, storage, inspection, and disposal). It is assumed that aqueous and soil IDW will be disposed of off-site. This task includes an estimated not-to-exceed disposal cost of $5,000 for all wastes generated during the investigation. In the event that this estimate proves insufficient, additional funding will be required to complete IDW disposal.

Task 9 - Geographic Information System (GIS) Deliverable

IT will develop a database of collected geologic (newly installed monitoring wells and direct push locations only) and chemical information for this investigation. This database will include information related to the well locations, direct push locations, surveyed coordinates and elevations, and chemical (analytical) data as well as pertinent geologic information. The deliverable package will be formatted as specified in the Data Standard for Corps of Engineers Environmental Restoration Sites and the Tri-Service Spatial Data Standards (TSSDS).

Task 10 – Report of Findings

IT will prepare summary report presenting the analytical results for all samples, one map showing bedrock and overburden monitoring well locations and five maps, one for each area, showing direct push locations. Additionally, IT will include a brief narrative that details the nature of work performed during the investigation and any problems encountered. Only one version of the document will be prepared; IT will not be responsible for responding to comments received, regarding the draft report, under this scope of work.

PROJECT SCHEDULE AND MILESTONES

The project schedule and milestones are presented in Figure 1.

KEY IT PROJECT PERSONNEL

- **Project Manager** - Mr. Mikael L. Spangberg will serve as IT's Project Manager.
- **Technical Lead** - Mr. Michael Gunderson will serve as the Technical Lead.
- **QA Manager** - Mr. Pat Gray will serve as the project QA Manager.
- **HSO Officer** - Mr. Bill Hetrick, CIH, will serve as IT's HSO Officer.
- **Project Chemist** - Ms. Maureen McMyler will serve as the Project Chemist.

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) REVIEW

This section of the QCP summarizes the IT internal technical and external peer review. The IT QA program provides controls for the formal verification (checking) of documents such as calculations and the presentation of information in the form of drawings, logs, and tables. Review and necessary approvals are also cited for quality-related documents; however, during the course of a project or proposal, verification of technical decisions and concepts (such as interpretation of data and evaluation of results) is required in order that the project or proposal can proceed on a sound conceptual basis. The review concept, or approach, may be needed for the following:

- During the project planning stage, have appropriate steps been implemented to satisfy the goals and objectives of the project?
- Are data of sufficient quality and properly interpreted so that conclusions can be justified and demonstrated?
- Are design parameters reasonable for the computations performed? What is the effect of variations of the assumptions upon the results?
- Do the results presented by IT in the form of a report, or other document, adequately represent the work performed and the conclusions reached? Do the results fulfill the objectives of the project?

The internal technical review process is used to verify these steps. Documents to be written during a project and indicated in the proposal will be subjected to peer review. The IT PM will

for this purpose and will notify the IT PM and QAO. Each nonconformance will be reviewed and a disposition will be issued for the item, activity, or condition. The disposition of a nonconformance will be documented and approved by the IT organization responsible for issuing the nonconformance. The QAO will concur with the disposition of the nonconformance prior to closure of the Nonconformance Report.

In addition, the IT PM will notify the USACE Technical Coordinator within 48 hours of significant nonconformances that could impact the project schedule or scope of work and will indicate the corrective action taken or planned.

SUBCONTRACTOR QA/QC REVIEW

IT has assigned personnel to monitor and review work performed by subcontractors in conjunction with this investigation. Mr. Mikael L. Spangberg will serve as the principal point-of-contact (POC).

The selection of qualified subcontractors, as required, will be accomplished in accordance with IT procurement and quality assurance (QA) procedures. Subcontractors such as drillers, geophysical specialists, surveyors, and environmental monitoring specialists, must satisfy predefined qualifications developed by the PM and IT that are defined in the procurement bid packages. Each subcontractor bid submittal is reviewed by technical personnel, purchasing, and QA personnel to verify that the bidders are technically qualified and can satisfy the project objectives. Before starting work, IT will perform a quality check to ensure that the subcontractor(s) has fulfilled the procurement requirements necessary to begin activities. Subcontractors involved in environmental measurements will be monitored by the IT Field Coordinator to verify the use of calibrated equipment and qualified operators.

CUSTOMER INVOLVEMENT

Customer involvement will be ongoing throughout the duration of this investigation, and IT personnel will be available as needed for question, consultation, etc. Project personnel may be reached at the following telephone numbers:

Mr. Mikael L. Spangberg	(860) 688-1151	Fax (860) 688-8239
Mr. Michael Gunderson	(423) 694-7403	Fax (423) 690-4652
Mr. William Hetrick	(423) 690-3211	Fax (423) 690-4652

Each work plan or other deliverable to be prepared in more than draft form will be submitted to the USACE Nashville District as specified in the SOW for review and comment. All review comments will be addressed and incorporated into the final submittals; this does NOT apply to the Report of Findings to be prepared under this delivery order.

DOCUMENTATION OF PROJECT DECISIONS AND RECORDS MANAGEMENT

The IT Project Records Clerk is responsible for maintaining control and retention for project-related records. Record control includes receipt from external and internal sources, transmittal, transfer to storage, and indication of record status. Retention includes receipt at storage areas, indexing and filing, storage and maintenance, and retrieval. IT will maintain the project repositories at 312 Directors Drive in Knoxville, Tennessee, for all project records, including correspondence. Records will be controlled and retained, as appropriate, in the office central files or laboratory files. The Project Records Clerk will assign control numbers to all outgoing documents and is responsible for properly filing the controlled records (except for those related to accounting, purchasing, and drafting, which are retained in the respective department files). IT will also provide the USACE Nashville District with a copy of all telephone memos, written correspondence, and meeting minutes regarding information related to the project within ten (10) days of the event. Copies of all records will be retained by IT for a minimum of seven (7) years after the end of the contract period. In addition, project records deemed to be of importance by the USACE will be turned over to the USACE at the time of project close-out.

PROJECT CLOSE-OUT

At the completion of this investigation, a project close-out meeting will be conducted. This will be at a time and place to be determined by Nashville District personnel, and may take the form of a teleconference. The purpose of this meeting will be to exchange feedback, discuss lessons learned, and conduct a final product verification.

Table 1

Preparation and Review Process for Required Project Deliverables
Groundwater RI, TNT and RWP Areas, Former Plum Brook Ordnance Works, Sandusky, Ohio

Submittal Description/ Title	Document Preparation and Review Process					
	Principal Author(s)	Discipline	Peer Review	Discipline	Project Review	Discipline
SSAP	Sam Smith (E-06) / Catherine Williams (E-06) / Maureen McMyler (E-08)	Geologist Chemist	William Hedberg (E-12)	Geologist	Michael Gunderson (E-10) Mikael Spangberg (E-11)	Geologist Engineer
SSHP	William Hetrick (E-10)	H&S Officer	Harry Pullum (E-12)	Indus. Hygienist	Michael Gunderson (E-10) Mikael Spangberg (E-11)	Geologist Engineer
Report of Findings	Sam Smith (E-06) / Catherine Williams (E-06) / Maureen McMyler (E-08)	Geologist Geologist Chemist	William Hedberg (E-12)	Geologist	Michael Gunderson (E-10) Mikael Spangberg (E-11)	Geologist Engineer

NOTE: Where multiple authors are identified, one or more of those identified may be involved in the document preparation depending on availability. Should replacements be necessary, personnel of comparable experience and qualifications will be utilized.

IT CORPORATION
A Member of The IT Group

DISCIPLINE SIGN-OFF REVIEW

Client Name: U.S. Army Engineer District, Nashville; CELRN-EC-R-M

Project Description: Groundwater RI, TNT and RWP Areas, Former Plum Brook Ordnance Works, Sandusky, OH

Contract Number: DACA62-00-D-0002 Delivery Order Number: 0010

Project Number: 825635 Task / Phase Number:

Document Type	Identify specific section or segment covered by this checkprint	Document Origin
☐ Technical / Cost Proposal	_____	☐ Originator Developed
☐ RFP	_____	☐ Edited Standard
☐ Contract / Subcontract	_____	☐ Client Furnished
☐ SAP, SSAP, CDAP, or QAPP	_____	
☐ SHP or SSHP	_____	**Document Status**
☐ _____ Report	_____	☐ Preliminary
☐ Risk Assessment / Evaluation	_____	☐ Internal Draft
☐ Specifications & Plans	_____	☐ Draft
☐ Design Calculations	_____	☐ Draft Final
☐ Tables	_____	☐ Final
☐ Drawings / Figures	_____	☐ Other: _____
☐ Other: _____	_____	

	Required Person	Signature	Date
Originator			
Checker			
Backchecker			
Updater			
Rechecker			
Technical Reviewer			
Technical Reviewer			
Technical Reviewer			
Technical Reviewer			
Quality Assurance Officer			
Project Manager			

NOTICE: By signature above, parties certify that the subject document has been prepared by and/or reviewed by them (as appropriate), that all review comments have been resolved, and that the document is ready for submittal.

FIGURE 2

Ingram, Linda LRN

From: Spangberg, Mike [Mspangberg@TheITGroup.com]
Sent: Thursday, April 12, 2001 3:28 PM
To: Ingram, Linda
Cc: Gunderson, Mike
Subject: PBOW GWI QCP Schedule

DO0010sch.PDF

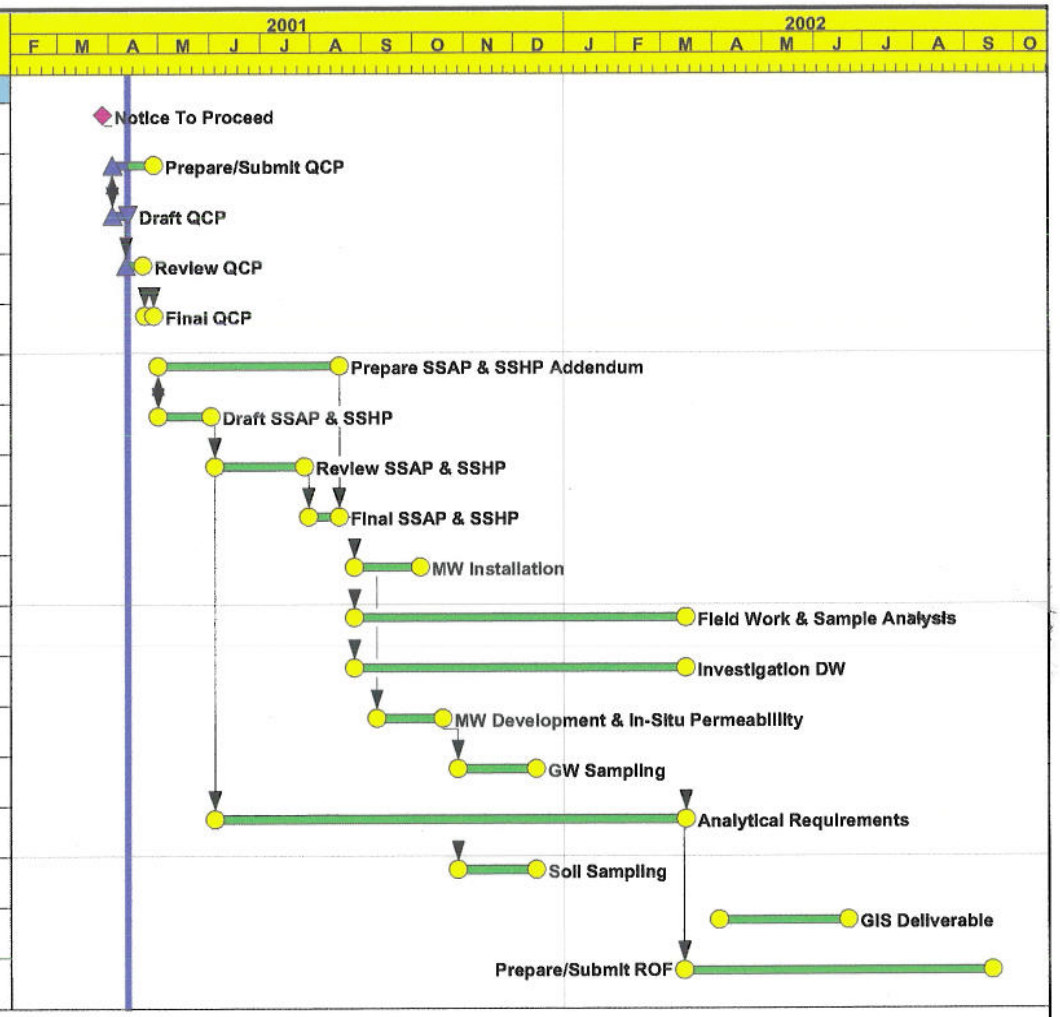
Linda,

Attached for your review is the GWI schedule for the DO 0010 QCP submitted yesterday.

<<DO0010sch.PDF>>

Mikael L. Spangberg
IT Corporation
Tel: (860) 688-1151
Fax: (860) 688-8239

PROJ	Activity ID	Orig Dur	Rem Dur	%	Early Start	Early Finish
D0010: 825635 -GW Inv. for TNT& RWP Areas						
D0010	DA00000000	0	0	100	28MAR01A	
D0010	DA01000000	19*	12*	37	03APR01A	27APR01
D0010	DA01000010	12	0	100	03APR01A	11APR01A
D0010	DA01000020	7	7	0	11APR01A	20APR01
D0010	DA01000030	5	5	0	23APR01	27APR01
D0010	DA02000000	80*	80*	0	30APR01	17AUG01
D0010	DA02000010	25	25	0	30APR01	01JUN01
D0010	DA02000020	40	40	0	04JUN01	27JUL01
D0010	DA02000030	15	15	0	30JUL01	17AUG01
D0010	DA03000000	30	30	0	27AUG01	05OCT01
D0010	DA0300000A	145*	145*	0	27AUG01	15MAR02
D0010	DA08000000	145	145	0	27AUG01	15MAR02
D0010	DA04000000	30	30	0	10SEP01	19OCT01
D0010	DA05000000	35	35	0	29OCT01	14DEC01
D0010	DA07000000	205	205	0	04JUN01	15MAR02
D0010	DA06000000	35	35	0	29OCT01	14DEC01
D0010	DA09000000	56	56	0	05APR02*	21JUN02
D0010	DA10000000	132	132	0	15MAR02	16SEP02



Start Date	01MAR00	NAE3	Sheet 1 of 1
Finish Date	21JUN02		
Data Date	12APR01		
Run Date	12APR01 15:37		

NASHVILLE A/E III

PROJECT SCHEDULE

D.O. 0010 - 825635

Early Bar

Progress Bar

© Primavera Systems, Inc.