OHIO DEPARTMENT OF TRANSPORTATION

REPORT



For Quarter Ending: March 31, 2009

Date Submitted _April 20, 2009

Project Title: <u>Development of Geotechnical Data Schema in Transportation</u> Research Agency: <u>University of Florida</u> Principal Investigator(s): <u>Marc Hoit</u>

State Job No.: <u>134254</u> Agreement No.: <u>20982</u> Pooled Fund Study No. (if applicable): <u>TPF5(111)</u>

QUARTERLY RESEARCH

 Project Start Date:
 October 1, 2005
 Contract Funds Approved: \$600,000

 Project Completion Date:
 June 30, 2011
 Spent To Date: \$_118,219_

 % Funds Expended __30__% Work Done __70____% Time Expired __54____
 List the Technical Liaisons and other individuals who should receive copies of this

 report:
 Kirk Beach ______

Note: no cost extension given until June 2011 (old date June 08) – hence %time has been adjusted accordingly.

SUMMARY OF PROGRESS FOR QUARTER:

Attach a progress schedule consisting of graphical information depicting (1) a schedule of research activities tied to the tasks defined in the proposal, (2) a comparative status of actual versus estimated expenditures, and (3) a percentage completion of the research.

- A GMS meeting was held in Orlando, March 25 & 26, topics were:
 - How to get v1.0 released (what needs to be fixed)

- o How to restructure the governance for the long term
- A plan of action was developed with timelines and actions
- Loren Turner is acting as project manager for these tasks (in conjunction with Marc Hoit)

PROPOSED WORK FOR NEW QUARTER:

- Major tasks for next quarter resulting from GMS meeting:
 - Hire consultants to review and advise on remaining issues with schema and suggest corrections
 - Develop governance options for long term stability (present to GMS)
 - By June, we will have the plan for releasing v1.0 and options for governance.
 - Will try and create final release ASAP (June if issues are small) Final schema will include:
 - AGS tables (Boring, insitu, testing) official
 - Piling as is (from UF) considered draft
 - Geo-env as-is considered draft
 - Geophysical as-is from Cosmos

IMPLEMENTATION (if any):

PROBLEMS & RECOMMENDED SOLUTIONS (if applicable):

Describe any problems encountered or anticipated that might affect the completion of the project within the time, scope, and fiscal constraints set forth in the contract, along with recommended solutions to those problems. NOTING DIFFICULTIES IN THIS SECTION DOES **NOT** CONSTITUTE A REQUEST TO MODIFY THE PROJECT. Requests for additional time, money, or scope revisions must be submitted in a separate letter to the Office of R&D Administrator.

The remaining issue is how to make the schema easier to implement – so adoption is better. We have a plan to simplify the schema and still retain most of the benefits.

EQUIPMENT PURCHASED (if any):

N/A

CONTACTS & MEETINGS:

Describe any meetings or contacts with ODOT technical liaisons and other pertinent

individuals relative to this project.

The March 25&26 GMS meeting in Orlando. Many of the GMS members were there as well as the GDC and Core team. All participated and we developed a plan for completion.

Graphic View of Pooled Fund Study TPF 5(111)

Phase	Phase 1	Phase 2	Phase 2
Task Number	1	2	3
	Develop straw		Finalize Survey
Task	survey	Send to GMS team	Questions
		Finalized Survey –	
		Consensus version	
	Preliminary draft	(Preliminary Draft	
	survey (Prototype	Dictionary	
	data dictionary &	available for DOT	Collected responses
Deliverable	schema)	use)	to survey
Estimated Completion Date	30-Nov-05	15-Jan-06	31-Jan-06
		Duoft Distignation	
		Draft Dictionary	
		and schema	
		completed -	
	Prototype schema	Dictionary needed	
	and dictionary	more work to	GMS returned
Work Accomplished	completed	complete	comments
Actual Completion Date	30-Nov-05	17-Jan-06	6-Feb-06
		1, 1, 1, 1, 1, 0, 0	010000
Proposed expenditure for task	\$43,240	\$51,299	\$51,140
	10001	0.27	4-04
Proposed % Total expenditure	100%	9%	17%
Actual expenditure for task Actual % Total expenditure	\$38,534 89%	\$19,777 3%	\$18,288 6%
Phase	Phase 1	Phase 2	0 % Phase 2
r IIdət	r'11036 1	r1103e 2	r11a5t 2

Phase 2	Phase 2	Phase 2	Phase 2
4	5	6	7
Response			
comments from		Reduce Survey	Draft out for
GMS	Distribute Survey	Data	comments
Draft dictionary	Comments from		Preliminary draft
ready for general	general stakeholders	Final data	hierarchy and
comment	on draft dictionary	dictionary	schema
6-Mar-06	15-May-06	30-Jul-06	31-Jan-07
0-10141-00	13-Way-00	J0-Ju1-00	51-Jan-07
		Draft corrected and	
		readyed for Limited	
		Public Review	Survey from GMS
		(new step added) -	and limited public
		Launched Aug 7,06	review completed.
		- Completed Sept	Found
		15, 06 - New effort	inconsistencies in
		to make correction	the schema. New
		in Schema from	effort launched to
		Limited review	convert to UML
		comments -	description which
		Expected	automatically
	Internal review of	completion by Jan	creates the XSD
	Draft circulated, no	30 - Public release	files - no change in
	meetings, update to	expected. Public	the hierarchy or an
Draft Dictionary	draft for public	comments will be	major changes to
behind 2 weeks	review by July 12	received by May 1.	schema.
8-Aug-06	15-Sep-06	10-Jan-07	20-Feb-07
\$51,140	\$51,140	\$43,240	\$51,140
26%	34%	41%	50%
\$0 6%	\$0 6%	\$3,400 7%	\$0 7%
Phase 2	Phase 2	Phase 2	Phase 2
	. 11400 2		. 11400 2

Phase 2	Phase 3	Phase 3
8	9	10
Final		Finalize new
schema/dictionary	Develop additional straw	elements for draft
delivered	dictionaries, hierarchy and schema	schema
		Final hierarchy and
		schema of new
		elements - ready for
Draft hierarchy and	New additions to phase 1 schema	standards groups
schema	for additional elements	and use
	1-Mar-07	30-Jun-08
1-May-07 working on putting		
all schema data into	A new Sig has been developed for	
new tool (UML) -	Environmental data. The kickoff	
v0.10 was delivered		
April 08 - final	07 in Orlando. The SIG includes	
public review draft	US EPA, US Army Corps, AGS,	
planned July 4th -	Earthsoft, Department of the Navy	
UML agreed by	and UF. The Dictonary Workshop	
GMS & GDC -	was held June 18-21, 07 in	
Cost is \$40K -	Orlando to work out the rdetails of	Env schema is
Draft Release will	the inclusing of EPA schemas into	incorparated into
have wide	DIGGS. The group developed the	the Base schema
dissemination and	ENV additions and added them	public review. At
be treated as the	directly to the UML description.	end of public
Full public release.	The Nov workshop meeting in Salt	review - GMS
New merged	Lake City finalized the draft	needs to discuss
website is complete	schema which has been	future efforts and
and operational for	incorporated for the June 08 public	SIGs - Env schema
the public review.	review. New SIGs will be	is the only new
V1Beta was	discussed one release is complete.	schema that will be
released on July 18,	March 25&26 GMS meeting	added - rest of
2008 for reveiw.	developed actions to release v1.0	efforts will be on
The forum is being	schema and develop governance	tools, adoption,
monitored for revei	for future.	support, etc
30-Jul-08	1-Oct-08	
\$40,000	\$150,000	\$105,000
57%	82%	99%
\$62,212	\$27%	\$50,000
17%	21%	29%
Phase 2	Phase 3	Phase 3