



SiteManager Updates and APCM Upgrade

Where We Stand and Where We Are Going

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- The Construction and Materials Information System Development (CMISD) section was formed in 2001 to facilitate the Department's implementation of AASHTOWare's construction software - SiteManager.
- Today, we are a staff of 5 with varied backgrounds (technical, construction administration, materials, etc.)
 - Cullen Pfeiffer (lead), Aaron Lenz, Fred Rojas, Joe Hanson, Ryan Evans
- CMISD serves as the liaison between Construction Division and other Department Divisions to collaborate on software solutions that best implement the Department's business policies. CMISD also works with Department Districts to troubleshoot issues and provide guidance on proper usage of software.



- Implemented May 2021 and completely in-place September 2021.
- Started with the intent to better serve Department users.
 - Previous way to manage incidents and requests was with a shared email inbox.
 - Challenges included emails left unread or mistakenly deleted and an inability to receive notifications directly.
 - Ticket System Positives
 - Centralized System that allows for collaboration with IT Service Desk members.
 - Enhanced Workflow management that drives accountability.
 - Creates documentation (i.e., paper trail).



Order Something

Browse the catalog for services and items you need

- Note: Manager approval is not needed when submitting CMISD/CST tickets. Manager approval is systematically granted.

Home > Service Catalog > Applications

Categories

- NEW
- Access Requests
- Applications**
- Construction Division**
- GIS and Mapping Services
- PeopleSoft Assistance
- TxDOTCONNECT
- Application Enhancements

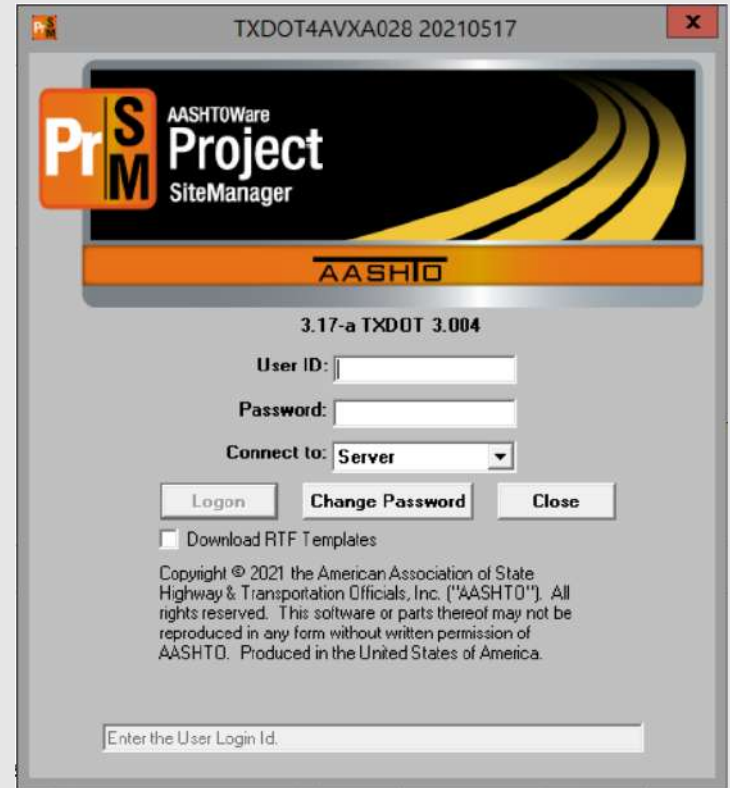
Applications

For GIS and Mapping

No items in category



- SiteManager serves as TxDOT's construction management software and has been utilized by the Department since the early 2000s.
- It is an AASHTOWare product.
 - Texas participates in workgroups with other state agencies to collaboratively identify improvement areas.
- 6,400+ users.
- Currently, Texas is in version 3.17a 3.005 of SiteManager (as of 11/19/2021).





- Reminders:

- SiteManager now features a Training/Sandbox environment.
- When experiencing connectivity and/or server availability issues, use Citrix.
 - If you do not have one already, a SiteManager-Citrix account can be granted by completing a Form 2526 and submitting a TxDOTNow ticket.
- Allow processes to complete before exiting/closing.
- Reports from CMISD should be opened and run from the Intranet site every time. Do not save to a local drive.



- SiteManager user vs Material User
 - SiteManager User accounts have access to SiteManager and typically enter information into the system.
 - All SiteManager User accounts are a Material User, test certifications are associated with a person's Material User account.
 - Material User accounts(only) are used to associate tester certifications, for individuals that do not access SiteManager. An example is a contractor's employees. We enter the tests provided to TxDOT by contractors and show the contractor's employee as the tester.
- If all else fails, contact CST_SITEMANAGER@txdot.gov and/or 512-416-2553.

SiteManager Version Upgrade (3.004 > 3.005)



TXDOT4AVXA028 20210517

AASHTO

3.17-a TXDOT 3.004

User ID:

Password:

Connect to:

Download RTF Templates

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L-5FF01X2 20211022

3.17-a TXDOT 3.005

TXDOT User ID:

Password:

Connect to:

WARNING - RESTRICTED GOVERNMENT SYSTEM
This system is restricted to authorized users only. Unauthorized access, use, misuse or modification of this system, the data contained herein, or in transit to/from this system, may constitute a violation of federal, state and local laws and subject individual(s) to criminal and/or civil prosecution and penalties. This system and associated usage is subject to monitoring and security testing by authorized personnel. There is no expectation of privacy except as otherwise provided by applicable privacy laws.



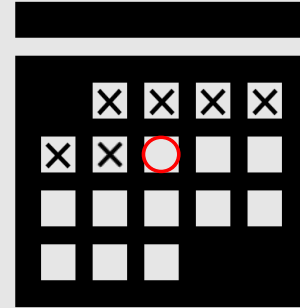
- New Features:
 - Upcoming shift to signing in with Active Directory (TxDOT Network) credentials.



AASHTOWare Project Construction & Materials



- Estimated go-live date: **December 2022**.
- Current Transition Plan:
 - Run SiteManager and APCM in parallel.
 - Rollout several districts at a time.
 - Mitigates risk associated with migrating existing data.
 - Allows for better planning of end-user training.
- This plan is subject to change.



- Training plan and materials are being developed.
 - Expected to be a multipronged approach of in-person, virtual, and online media.



■ What to Expect

- Web-based platform
- Not SiteManager 2.0
 - Much different appearance
 - Different structure than SiteManager
 - Functions may have new locations in the system
 - New Materials Test Templates
- Minor workflow changes to meet new system requirements.





Home Previous My Pages Actions Help Log off

On this page: External Links System Information Reference Data System Administration Estimation Civil Rights & Labor Preconstruction Civil Rights & Labor Non-Agency Construction Materials Worksheets
Materials Data Analytics

PROJECT SAMPLE ROLE for System Wide Admin (DO NOT MODIFY)

System Information ?

Constr Management Sys ID (CMSID)
ee56c393-cdb6-4d0a-acd3-da1c3726b29f

Product Version
4.4.1 Revision 036

Database Version
4.4.036

System Administration ?

Agency Entities

External Links ?

aashtowareproject.org AASHTO Transportation Construction Community

Reference Data ?

Administrative Offices
Alternate Test Workflow
Change Order Approval Groups
Change Order Approval Rules
Change Order Explanation
Code Tables
Contract Claim Types
Contractor Evaluation Structure

- The APCM project has been a unified effort between several parties.
 - Driven by CST and ITD.
 - Valuable insight and collaboration with TxDOT Divisions (ex. MNT & MTD).
 - InfoTech, a third-party software vendor, is providing implementation support.



- DWRs in SiteManager...

The screenshot shows the 'DWR Calendar' application window. At the top, there are menu options: File, Edit, Services, Window, Help. Below the menu is a toolbar with various icons. The main interface is divided into several sections:

- DWR Info:** Contract ID: 0944001039, Inspector: Aaron Lenz.
- DWRs by Inspectors:** A list of inspectors including Aaron Lenz, Brandon Thompson, Jayme L Holmes (i), Jeremy Mikas, Kyle Mccoy, Kyle P Russell, Leslie Haak (i), Nathan Wright (i), Rhonda Dietrich, and Thomas E Jones (i).
- Calendar:** A calendar for October 2020. The 9th is highlighted in green, indicating a DWR date. A legend at the bottom of the calendar includes icons for Authorized, Personnel, Remarks, Force Acct, Equipment, Weather, Work, Attachment, Distribution, Paid in Est, Locked, and DWR Sample.
- DWR Date:** 10/09/20.
- Authorized:** No 000/00/00, Locked: No.
- Work Items:** No Work Items Installed: , No Contractors On Site: , No Daily Staff On Site: .
- Temperature:** High: 0, Low: 0.
- Weather Conditions:** A.M.: [dropdown], P.M.: [dropdown].
- Work Suspended:** . Suspended Time: 00:00, Resumed Time: 00:00.
- Remarks:** A text area with a 'Spell Check' button. A dropdown menu is open showing categories: ACCIDENT, CONTRACTOR WK HR, DISPUTE/CLAIM, EEO ISSUES, General, GENERAL, OTHER.





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Maintain Sample Information

Basic Sample Data Addtl Sample Data Contract Other Tests

Smpl ID: 4651021CPFEIFF*001 **Status:** Pending Delivery
Revised By: **Revising:** **Sample Date:** 12/30/20
Link To: **Link From:** **Log Date:** 00/00/00
Smpl Type: PROJECT TEST **Acpt Meth:** Spaces
Material: 0300CBM003 MC-30
Sampler: TWARREN Warren, Timothy J
P/S: **Type:** **City:**
Prod Nm: DWR Sample
Mnfctr: ASPHALT FUEL AND SUPPLY - TULSA, OK M004C000099997
Town: **Geog Area:** ATHENS AREA OFFICE
Intd Use: PRIME - MC 30 - 175 REHAB
Repr Qty: .000 GALLON **Lab Control Number:**
Auth By: **Auth Date:** 00/00/00 **Lab Reference Number:** C20375387
Lock Type: **Locked By:** **Lock Date:** Send Notice to Central Lab



- Clearing deficiencies in SiteManager
 - Sample for MX Design
 - Sample for Coarse Aggregate
 - Sample for Fine Aggregate
 - QM Sample for Cement
 - Sample for Strength, Slump, and Temperature



- DWRs in APCM...

The screenshot displays the 'Contract Daily Work Report Summary' page in the AASHTOWare APCM system. The page is titled 'Contract: CONST_TRAIN41 FARMERSVILLE ROAD (KY 139)'. The DWR Date is 10/07/2020, the Inspector is TRAINWTTRAIN25, and the Status is Draft. The form includes several sections:

- General:** DWR Date (10/07/2020), Inspector (TRAINWTTRAIN25), Weather (Sunny - 0% to 30% of sky is covered by cloud cover), Rainfall Amount (0.00), Low Temperature (60), High Temperature (90), Stormwater Event, and Contractors Onsite (No).
- Remarks:** 0
- Federal Project Number:** ERC 5033(004)
- State Project Number:**
- Entered By:** TRAINWTTRAIN25 - TRAIN25 TRAINWT
- Entered Date:** 10/07/2020 1:50:50 PM
- Approval Date:**
- Approved By:**
- Payment Est Num:**

A sidebar menu on the left lists various report categories: General, Notes, Contract Time, Contractors On Site, Contractor Equipment, Contractor Personnel, Contractor Staff, Agency Staff, Postings, Acceptance Records, and Force Account Contractors. The top navigation bar includes links for Home, Previous, and My Pages, along with Actions, Help, and Log off buttons.





- DWR Acceptance Records in APCM...

Contract Daily Work Report Summary

Contract: 091511025 - Oil System Bridge Save ?

DWR Date: 09/28/2021 Inspector: CPFEIFF_2 Sequence: 1 Status: Draft

General

Note

Contractors On Site

Contractor Equipment

Contractor Personnel

Contractor Staff

Agency Staff

Postings

Acceptance Records

Force Account Contractors

0 changed

Item ID	Item Description	Project ID	Category ID	Sequence Num
04626034	CONC BOX CULV (10 FT X 10 FT)	091511025	001	1
Location	Sequence	Qty Posted	Material Set	Materials
Here		1	PreCast	1

Material	Represented Qty	Source	Facility	SMI-MI
0462PCBOX0 - PRECAST BOX CULVERTS	100.00000	BOXCULVERTSOURCE - BC SOURCE 1	-	PCSOURCE
Material Units	Conversion Factor	Reported Matl Qty	Cont Est Matl Qty	Sat Rep Matl Qty
LF	1.00000	105.00000	10.00000000	106.00000

Action Type ▼
MATLSC - Material Sourcing

Represented Quantity ▼
100.00000

Work Location ▼
Begin typing to search or press Enter

Source ID ▼
BOXCULVERTSOURCE
BC SOURCE 1

Facility ID ▼
Begin typing to search or press Enter

DWR Quantity From Inventory ▼
PCSOURCE

Field Inspection Value ▼
IE - Inventory Exists

Sample Type ▼

Acceptance Method ▼

Comments ▼

Sample ID

Sampler ID

Sample Date





- APCM - Daily Source Reports (New)

Home Previous My Pages Actions Help Log off

Overview

Daily Source Report Summary

▼ Daily Source Report Save ?

Source: MMM - MARTIN MARIETTA MATERIALS Facility: MMM001 - MMM - BECKMANN Date: 11/02/2020

General	Source *	Remarks
Materials	Q MMM MARTIN MARIETTA MATERIALS	0
Inspection	Facility	Inspector
	Q MMM001 MMM - BECKMANN	CPFEIFF_2
	Date *	Locked By
	11/02/2020	
	Inspector on Site	Locked Date
	<input checked="" type="checkbox"/>	
	Remarks	
	Type *	Remark *
	<input type="text"/>	<input type="text"/>



Sources and Facilities

Home Previous My Pages

Actions Help Log off

Overview Source

Facility Summary

Facility: MMM001 - MMM - BECKMANN Save ?

General	Facility ID * MMM001	Remarks 0
Addresses	Facility Name * MMM - BECKMANN	Source MMM - MARTIN MARIETTA MATERIALS
Source Authority	Geographic Area [Dropdown]	Portable Plant <input type="checkbox"/>
Material Categories	Location Type [Dropdown]	Location Description [Text Field]
Materials	Source Management Level 2 - SAN ANTONIO DISTRICT	Sequence Number 0001
Test Equipment	Last Inspected Date 01/01/2020 [Calendar]	Expiration Date [Calendar]
Mix Designs	Effective Date 01/01/2020 [Calendar]	Status * ACTIVE - Active [Dropdown]
	Active Yes	



Inventory

Home Previous My Pages Actions Help Log off

Facility Material

Source Material Facility Material Identification Summary

Facility: MMM001 Material: 0421CA0000 Save ?

General*	Inventory Name	Global Inventory Authority
SMFMI Authority	103	No
Associated Items	Brand Name	Net Inventory Quantity
Associated DSRs	<input type="text"/>	15,000.000
	Quantity	Pending Net Inventory Quantity
	<input type="text"/>	15,000.000
	Maximum Quantity	Status*
	<input type="text"/>	ACTIVE - Active
	Limit To Total Available Quantity	Active
	<input checked="" type="checkbox"/>	Yes
	Effective Date	Material Approval Effective Date
	01/01/2020	06/23/2000
	Expiration Date	Material Approval Expiration Date
	<input type="text"/>	
	Responsible Lab	
	2 - 2 - SAN ANTONIO DISTRICT	
	Material Approval Active	
	Yes	



- Clearing deficiencies in APCM
 - On the DWR acceptance record, the inspector selects the Source, Facility, and Mix Design.
 - Because Mix Designs will be entered into APCM, the CA, FA, Cement will be known without having to associate samples.
 - The field tests, Strength, Slump, and Temperature will be recorded on a sample.



Home Previous My Pages Actions Help Log off

Overview Find Sample Maintain Test Queue Receive at Destination Lab Receive at Lab Unit Review Samples Review Tests

Sample Record Summary

Sample Record: Pfeiffer20210129072443 Save ?

General	Sample ID * Pfeiffer20210129072443	Remarks 0	Actions Add New Copy Tasks Authorize Split Sample Record... Unauthorize Views Attachments Issues Links Reports Sample Label Test Results Report Historical Reports Test Results Report
Sample Location		Sample Date 01/29/2021	
Additional Information	Material Code - Name 0421 CM0000 COMPLETE MIX FCC	Sample Status In Testing	
Sources/Facilities		Sample Type PT - PROJECT TEST	
Associations	Administrative Office Begin typing to search or press Enter	Acceptance Method	
Contract		Authorized By	
Tests	Lab Control Number CNPfeiffer20210129072443	Authorized Date	
Test Charges	Lab Reference Number	Revising Sample ID	
		Revised By	
	Control Number	Link To Begin typing to search or press Enter	
	Control Type	Link From	
	Seal Number		
	Sample Size		
	Sample Size Units		



- Materials Test Templates in SiteManager...



TXDOT Manuals > [Tex-414-A](#) [Tex-415-A](#) [Tex-416-A](#) [Tex-422-A](#)

TEXAS DEPARTMENT OF TRANSPORTATION

HYDRAULIC CEMENT CONCRETE REPORT
Tex-414,15,16, 22-A

[Refresh Workbook](#) File Version: 03/09/15 10:27:30

SAMPLE ID:		SAMPLED DATE:	
TEST NUMBER:		LETTING DATE:	
SAMPLE STATUS:		CONTROLLING CSJ:	
COUNTY:		SPEC YEAR:	
SAMPLED BY:		SPEC ITEM:	
SAMPLE LOCATION:		SPECIAL PROVISION:	
MATERIAL CODE:		GRADE:	
MATERIAL NAME:			
PRODUCER:			
AREA ENGINEER:		PROJECT MANAGER:	
COURSE/LIFT:		STATION:	
		DIST. FROM CL:	

SLUMP Tex-415-A (ASM C 143)	TEMPERATURE Tex-422-A (ASTM C 1064)
Slump	Temperature

AIR CONTENT

Test Method:

Remarks:

Test Method:	Tested By:	Tested Date:
TX414		
TX415		
TX416		
TX422		

Test Stamp Code:	Ornt Test:	Completed Date:	Reviewed By:

Packet By: TXDOT District Area





- Agency Views in APCM...

Home Previous My Pages

Actions Help Log off

Overview Agency View Summary

Preview Agency View

▼ PCC Properties_T01 ?

Minimum Average Strength Required (psi)	Design Strength Specified (psi)
<input type="text"/>	<input type="text"/>
Theoretical Unit Weight (pcf)	
<input type="text"/>	
Water Cement Ratio	
<input type="text"/>	
Unit Weight Measured (pcf)	
<input type="text"/>	
Air Content Minimum (%)	Air Content Maximum (%)
<input type="text"/>	<input type="text"/>
Slump Minimum (in)	Slump Maximum (in)
<input type="text"/>	<input type="text"/>





CALIBRATED EQUIPMENT IN SITEMANAGER

Pr Calibrated Equipment

Serial Number	Manufacturer Name	Model Number	
MTD-105058	Taylor	9842	Thermometer
MTD-1099637	MITUTOYO	CD-12	Calipers
MTD-1099644	MITUTOYO	CD-12	Calipers
MTD-112056	TPS (MTDFLEX)	MTD16945	
MTD-1250	ASHCROFT	1300-5	Weights

< >

Serial Number: **Status:**

Manufacturer Name: **Lab Id:**

Description:

Calibration Authority:

Calibration Type: **Geographic Area:**

Calibration Method: **Document Reference:**

Calibration Date: **Expiration Date:**

Model Number:

- Cannot Attachment documents to Calibration Records
- Lack of search functionality



Equipment Calibrations in APCM...

Test Equipment Calibrations Summary

▼ Test Equipment Calibrations: MTD-1099644 - CALIPER DIGITAL 12" Save

Equipment Record*	Serial Number*	Model Number	Actions ✕ Add New Views Attachments Issues Links
Calibration Records*	MTD-1099644	CD-12	
	Description*	Manufacturer Name	
	CALIPER DIGITAL 12"	MITUTOYO	
	Geographic Area	In Service Date	
		09/01/2021	
	Calibration Interval*	Out of Service Date	
	12 - Twelve		
	Calibration Method	Service Review Status	
		ACTIVE - Active	
	Lab Unit	In Service	
	1 CONCRETE LABORATORY	Yes	
	Source		
	Begin typing to search or press Enter		
	Facility		
	Begin typing to search or press Enter		

- Attachments are available in all windows in APCM.



Equipment Calibrations in APCM...

Test Equipment Calibrations Summary

Test Equipment Calibrations: MTD-1099644 - CALIPER DIGITAL 12*

Equipment Record* | Calibration Records* | New | 0 added | 0 marked for deletion | 0 changed | Save | ?

Calibration Period	Calb. Eff. Dt	Calb. Exp. Dt	Calb. Rvw. Status	Calibration Effective
2021	09/01/2021	09/01/2022	ACTIVE - Active	Yes

Calibration Period ▼ 2021
Calibration Effective Date ▼ 09/01/2021
Calibration Expiration Date ▼ 09/01/2022

Calibration Review Status ▼ ACTIVE - Active
Calibration Effective Yes

Remarks

Type *	Remark *

Actions (dropdown menu):
Delete
Duplicate Row
Insert Row
Tasks
Test Equipment 15 Day Notification
Test Equipment 30 Day Notification
Test Equipment 60 Day Notification
Test Equipment Calibration has Expired
Test Equipment Expirations Today
Views
Calibration Attachments
Links
Tracked Issues

- Attachments are available in all windows in APCM.
- Future use of Agency Views for entering calibration records instead of utilizing the Excel templates
- Email Notifications




- Equipment Calibrations in APCM...

15 Day Equipment Calibration Expiration Notice for MAINTENANCE VACUUM PUMP



APCMPROD_NoReply@txdot.gov

To  Cullen Pfeiffer

Equipment Location(Lab): METROLOGY LABORATORY

Serial Number: MTD-FLEX-431485

Equipment Description: MAINTENANCE VACUUM PUMP

Model Number: FLEX12122

Manufacturer: 10A4-6

In Service Date: 1/1/2020 12:00:00 AM

Calibration Length: 12

Calibration Period: 2021

Calibration Effective Date: 1/1/2020 12:00:00 AM

Calibration Expiration Date: 10/16/2021 12:00:00 AM

Contact the District Laboratory, , or the Materials and Tests Division with any questions.



- An effort is currently being taken to explore mobile applications.
- Mobile Inspector
 - A Progressive Web Application (a website that acts as an app).
 - Allows inspectors to collect data for their Daily Work Report:
 - Contractor Work (i.e., Daily Narrative)
 - Site Conditions
 - Contractor Work Force
 - Work Items
 - Photos (only available with APCM)
 - Several District users have assisted with piloting.





– Mobile Tester

- A Progressive Web Application (a website that acts as an app).
- Built to capture sample record information from the field.
- Compatible with Agency Views.
- Transfers information to APCM automatically once an internet connection is established, similar to Mobile Inspector.
- TxDOT assisted with beta testing on this application.





QUESTIONS?

