



# Basic LIMS

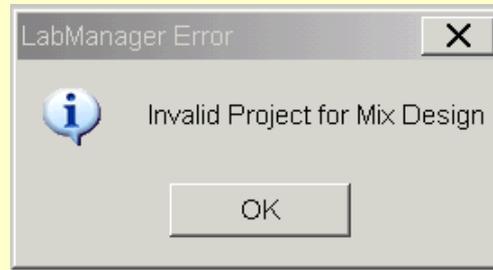
# *Laboratory Information Management System*

# 2012

# Learning Goals

- Login common field samples  
(*sample numbering C22 Card*)
- Result Entry of test data  
(*Add or delete a test on a sample*)
- Validate  
(*checking and comparing the results*)
- Approve  
(*Approval Codes AC, RE, and RS*)
- Status  
(*Finding a sample*)

# Concrete Mix Design Issues



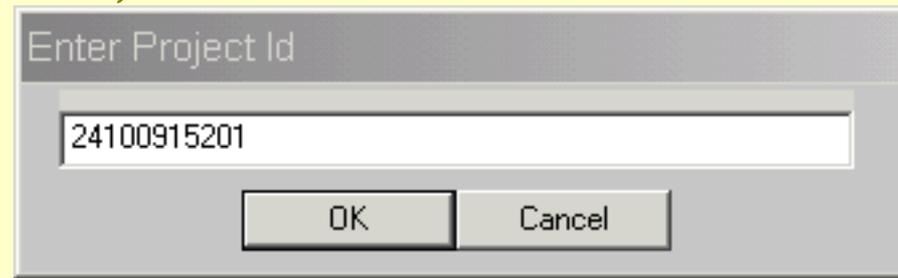
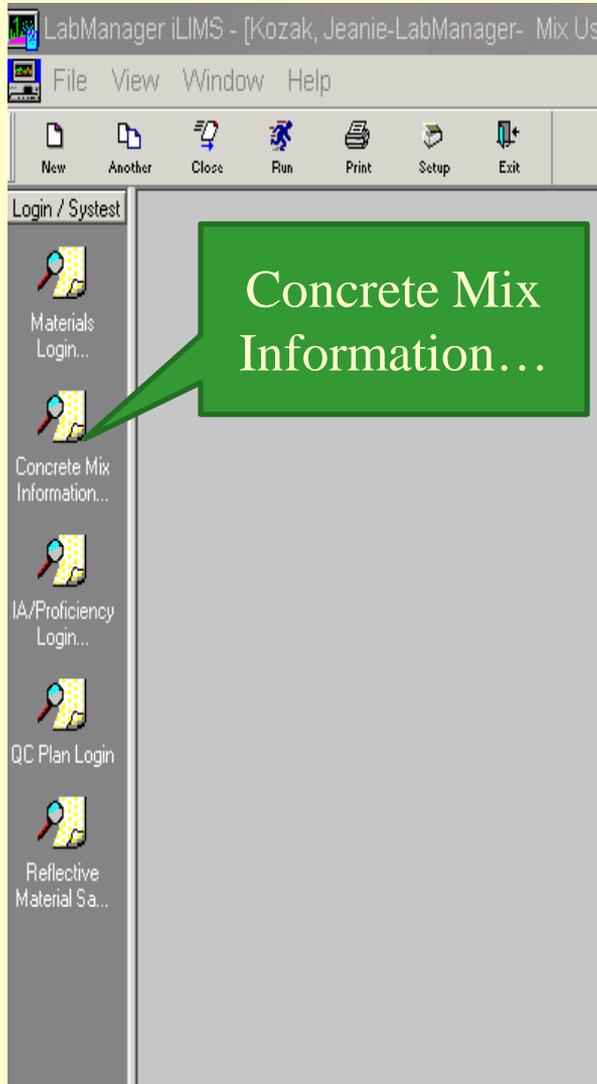
An error you may see when logging in a concrete sample

# Unable to log in a concrete sample?

If you receive an invalid project for mix design error, you can check to see if the mix design has been entered in LIMS on a project.

Follow this path:  
*Login*

*Click on: Concrete Mix Information > mix design by project. In the pop up box, Enter the Project ID (FIN); do not use dashes, then **click OK***



LabManager iLIMS - [Kozak, Jeanie-LabManager- Mix Use by Project]

File View Window Help

New Another Close Run Print Setup Exit

Login / Systest

- Materials Login...
- Concrete Mix Information...
- Av/Proficiency Login...
- QC Plan Login
- Reflective Material Sa...

Receipt  
Result Entry  
Validate  
Approve  
Status  
Maintenance  
Reports  
Modules  
My views

DoubleClick to select a choice

# Device Selection Window:

Device Selection Window

Current Terminal

File

WINDOW

D5KP3510B on DOTSD5KPFS2.d5.dot.state.fl.us (from DOTPD5KP336151) in s

Microsoft XPS Document Writer (from Wl\_5jhaL\_0MxGI2r5k9) in session 1

Microsoft XPS Document Writer (from Wl\_8xFFh00iDjqc0Bxsa) in session 6

Microsoft XPS Document Writer (from Wl\_GFuKY40W06Z8PMcd2) in session 2

Microsoft XPS Document Writer (from Wl\_hzLpdqbBAxFDpWxNU) in session 5

Microsoft XPS Document Writer (from Wl\_JdmaJqjz8Qlr3kmFJ) in session 1

Microsoft XPS Document Writer (from Wl\_JdmaJqjz8Qlr3kmFJ) in session 7

Microsoft XPS Document Writer (from Wl\_jwKglk7Ko9-Krmyrv) in session 1

Microsoft XPS Document Writer (from Wl\_jwKglk7Ko9-Krmyrv) in session 9

Microsoft XPS Document Writer (from Wl\_mkZLLiJroNc7wlcY) in session 1

Microsoft XPS Document Writer (from Wl\_najpVq7rqA89f019) in session 1

OK Cancel Help

*Click OK*

LabManager iLIMS - [Kozak, Jeanie-LabManager-Concrete Mix Uses by Project]

File Edit Window Help

Help Save As Print Setup Exit

Login / Systest 03/21/2012 RPTMU1

Concrete Mixes for Project 24100915201

Plant	Producer Name	City	Mix Number	Xfer?	Class	Effective Date	Mix Status
70-214	TARMAC FLORIDA INC.	MELBORNE	05-1305	Y	II DECK	02/03/2010	APPROVED
70-389	TARMAC FLORIDA INC.	COCOA	05-1305	Y	II DECK	02/03/2010	APPROVED
75-631	PRESTIGE CONCRETE PRODUCT	ORLANDO	05-1355	Y	II DECK	10/22/2010	APPROVED
79-575	PRESTIGE AB READY MIX	DAYTONA BEACH	05-1355	Y	II DECK	10/22/2010	APPROVED

Materials Login...  
Concrete Mix Information...  
IA/Proficiency Login...  
QC Plan Login  
Reflective Material Sa...

Concrete mixes that are valid for the project are displayed.

If the mix you are trying to enter is not listed here -- it is not a valid mix for this project.

The Project Administrator will need to submit the concrete mix designs for project approval, either in the Contractor's Quality Control Plan or as an addendum to it.

This submittal should be sent from the Project to:

[James.Kirkland@dot.myflorida.com](mailto:James.Kirkland@dot.myflorida.com)

LIMS Sample Id: 1200000015

## CONCRETE SAMPLE LOGIN

Project ID: 24100915201 Pay Item No: 1 400 2 4 Matl ID: 160F Level: V Year/Authority: 200207/STD Spec 346 Resolution Y/N?: N

145F /145L /146F /146L /154 /159F /159L /160F /160L

Matl ID

On Spec: 160F Level: V Auth: STD Spec 346 Year: 200207 Sub Matl ID: Sample No: CB2A001V Date Sampled: 06/12/2012

Sta From: 1155+10 Sta To: 1155+40 Samp From: TRUCK Rdway Side: R Offset Dist: 20 Offset Dir: R Mainline: Y

Reference Line: CLCONSTRUCT Plant No: 70-214 Quant Rep: 200.00 Unit of Measure: CY

Intended Use: BRIDGE DECK Sampled By (TIN#): Z52017151-000 (Axxxxxxxx-yyy)

Matl Description: Concrete-Structural

Road Number: 40 Design Mix No: 05-1305 Lot No: 1-4 Destination LabID: D0500 Delivery Ticket/Batch No: 1

Submitted By: Thomas Wright of Materials & Research Phone: 386-740-3527

Address: 1650 N. Kepler Rd. DeLand, FL 32724

Remarks: COOL DRY WHEATHER. THOMAS.WRIGHT@DOT.MYFLORIDA.COM

### **Structural Concrete Plastic Properties Sample Instructions:**

<http://materials.dot.state.fl.us/smo/laboratory/lims/resources/instructions/concreteplasticproperties.pdf>

**Result Entry Concrete Field Sample**

<input type="text" value="C143"/>	ASTM C143 Slump of Hydraulic Cement Concrete	<input type="button" value="Pend"/>
		Test Category: <input type="button" value="PHYS"/>
Results Entered By:	<input type="text"/>	On <input type="text"/>
Performed By:	<input type="text" value="Z52017151-000"/>	On <input type="text" value="06/13/2012"/>
		Lab/Tech Qual Status: <input type="text"/>
Component:	Slump	<input type="text" value="4.00"/> inches
Limits:	<input type="text" value="1.50 to 4.50"/>	
Instr #:	<input type="text"/>	
Comment:	<input type="text" value="Consistency of mix was okay."/>	

<input type="text" value="PRESSURE MTR"/>	ASTM C231 - Air Content Using Pressure Meter	<input type="button" value="Pend"/>
		Test Category: <input type="button" value="PHYS"/>
Results Entered By:	<input type="text"/>	On <input type="text"/>
Performed By:	<input type="text" value="Z52017151-000"/>	On <input type="text" value="06/13/2012"/>
		Lab/Tech Qual Status: <input type="text"/>
Component:	Air Content	<input type="text" value="3.0"/> percent
	<input type="text" value="1.0 to 6.0"/>	
	Agg Corr Factor	<input type="text" value="6.0"/>
Instr #:	<input type="text"/>	
Comment:	<input type="text" value="THIS CONCRETE SHOULD FLEX WELL IN FREEZING WHEATHER."/>	

**Result Entry Concrete Field Sample** (con't)

<input type="text" value="C1064"/>	<input type="text" value="ASTM C1064 Temperature of Freshly Mixed Cement Concrete"/>	<input type="text" value="Pend"/>
		<b>Test Category:</b> <input type="text" value="PHYS"/>
<b>Results Entered By:</b>	<input type="text"/>	On <input type="text"/>
<b>Performed By:</b>	<input type="text" value="Z52017151-000"/>	On <input type="text" value="06/13/2012"/>
		<b>Lab/Tech Qual Status:</b> <input type="text"/>
<b>Component:</b>	<input type="text" value="temperature"/>	<input type="text" value="84.00"/> <input type="text" value="degree F"/>
<b>Limits:</b>	<input type="text" value="Less,Equal to 100.00"/>	
<b>Instr #:</b>	<input type="text"/>	
<b>Comment:</b>	<input type="text" value="My thermometer was recently calibrated."/>	

<input type="text" value="W/C RATIO"/>	<input type="text" value="Water/Cementitious Materials Ratio"/>	<input type="text" value="Pend"/>
		<b>Test Category:</b> <input type="text" value="PHYS"/>
<b>Results Entered By:</b>	<input type="text"/>	On <input type="text"/>
<b>Performed By:</b>	<input type="text" value="Z52017151-000"/>	On <input type="text" value="06/13/2012"/>
		<input type="checkbox"/> <b>Delete</b>
		<b>Lab/Tech Qual Status:</b> <input type="text"/>
<b>Component:</b>	<input type="text" value="W/C Ratio"/>	<input type="text" value="0.02"/> <input type="text" value="Lb per Lb"/>
	<input type="text" value="Less,Equal to 0.44"/>	
<b>Instr #:</b>	<input type="text"/>	
<b>Comment:</b>	<input type="text"/>	

**Result Entry Concrete Field Sample** (con't)

STATUS P Sample Status Concrete- Plastic Properties Pend

Do the results meet the plastic prop req of the design mix? YES ▼

Comment: I certify this concrete meets the requirements for this mix.

Results Entered By:  On   Delete

Performed By: Z52017151-000 On 06/13/2012 Test Category: PHYS

Lab/Tech Qual Status:

To add a test and to kill a test....

# Earthwork Sample Login:

LabManager iLIMS - [Williams, Jay-LabManager-Single Routine Sample Login]

File View Window Help

Help Initiate rocess (SAW) Clear Screen Notepad Tech Qnal mple Card C- Exit

Login

Materials Login...

Concrete Mix Information...

IA/Proficiency Login...

Reflective Material Sa...

Receipt

Result Entry

Validate

Approve

Status

Reports

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My views

**LIMS Sample Id:**  **Resolution Sample:** N

**Project ID:** 24100915201 **Pay Item No:** 2 120 1 **Matl ID:** 004L **Sample Level:** V

**Year/Authority:** 200207/STD Spec 120 **Sub Matl ID:**

**Matl ID (On Spec):**  **Level:**  **Auth:**  **Year:**

**Destination LabID:** D05001 **Date Sampled:** 12:00 AM 10/12/2010

**Sampled By (TIN#):** A25043976-000 (Annnnnnnnn-00X)

**Manfr or Prod:**  **Source (Shipped From):** POND A

**Sample No:** E001V **Batch No:**  **Lot No:** N/A **Sub Lot:**

**Sta From:** 100+00 **Sta To:** 105+00 **Samp From:** 103+00

**Rdway Side:** R **Offset Distance:** 10' **Offset Direction:** R **Mainline:** Y

**Reference Line:** CL **Road No:** SR44 **Quant Rep:** 500.00

**Plant or Pit No:**  **QPL Number:**  **Unit of Measure:** LF

**Intended Use:** EMBANKMENT **Design Mix No:**

**Matl Description:**

**Submitted By:** J. Agnew of District 5 FDOT **Phone:** 386-740-3500

**Address:** 1650 North Kepler Road DeLand, FL 32724

**Remarks:** DARK BROWN SAND

(single)

# Single Sample Receipt

LabManager iLIMS - [Agnew, Jeffery-LabManager-Single Sample Receipt]

File View Window Help

Help Search Receive mple C-22 C: Notepad Exit

Login / Systest

Receipt

Single Sample Receipt

Multiple Sample Rec...

Receive Routed Sam...

Sample Information ...

Receive Proficiency ...

**(RECV0)**

**LIMS Sample Id:** 1000000479 **Sample No.:** E001V **Notes?**

**Project ID:** 24100915201 **Pay Item No.:** 2 120 1 **Matl ID:** 004L

**Sample Level** V **Spec Year** 200207 **Spec Auth:** STD Spec 120

**Material Id on Spec** 004L

**Matl Description:** EMBANKMENT - ROADWAY CONSTRUCTION

**Destination Lab ID:** D05001 **Route To:** **Logger ID:** RT519JA

**Process Due Date:** 10/12/2010 **Lab Due Date:**

**Batch Number:** **Lot No:** N/A

**Date Sampled:** 12:00 AM 10/12/2010 **Sta From:** 100+00 **Sta To:** 105+00

**Manfr or Producer:** **Source (shipped from):** POND A

**Rdway Side:** R **Offset Distance:** 10' **Offset Direction:** R **Mainline:** Y

**Sampled By:** A25043976-000 **Samp From:** 103+00

**Sampler Qual Status** TRAINED

**Reference Line:** CL

**Plant or Pit No:** **Quant Rep:** 500.00 **Unit of Measure:** LF

**Intended Use/Part of Structure Placed:** EMBANKMENT

**Design Mix No:**

**Submitted by:** J. Agnew **of:** District 5 FDOT **Phone:** 386-740-3500

**Logger Remarks**

DARK BROWN SAND

Result Entry

Validate

Approve

Status

Maintenance

Reports

Modules

My views

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# Result Entry

LabManager iLIMS - [Agnew, Jeffery-LabManager-Test Result Entry By Sample]

File View Window Help

Help Search Update Quality Test Quality All Display Calc Single Calc All Calcs Add test Kill Test Notepad mple C-22 C: Exit

Login / Systest  
Receipt  
Result Entry  
Test Entry by Sample  
IA Checklist

**(SCNTE)**

LIMS Sample Id:	1000000479	Logger ID:	RT519JA	Notes?	
Project ID:	24100915201	Pay Item No:	2 120 1	Matl ID:	004L
Sample Level:	V	Spec Authority:	STD Spec 120	Spec Year:	200207
Sample No:	E001V	Lab ID:	D05001	Routed To :	
Sample Date:	10/12/2010	Date Received:	10/12/2010	Lab Due Date:	10/17/2010
Eval Technician ID:		Lot:	N/A	Sub Lot:	<input type="checkbox"/>
				QC Plan	<input type="checkbox"/>

**Logger Remarks**

DARK BROWN SAND

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T99STDPRC\_E AASHTO T99-Standard Proctor - English

Results Entered By:		On		Test Category:	SOIL
Performed By:	A25043976-000	On	10/12/2010	<input type="checkbox"/> Delete	
Component:	Standard Proctor (English)		110.00	lbs/ft3	
Limits:	No limits specified		11.00	%Mois.	
Instr #:					
Comment:					

13

- Questions
- Comments
- Contributions
- Qualms
- Quibbles
- Quips
- Quandaries



# LIMS Links 2012

**SysTest:**

<https://fdotnfusetest.dot.state.fl.us/Citrix/MetaFrame/auth/login.aspx>

**CitrixLIMS:**

<https://fdotnfuse.dot.state.fl.us/Citrix/MetaFrame/auth/login.aspx>

**Data Entry Lab:**

<http://www.dot.state.fl.us/statematerialsoffice/laboratory/lims/resources/instructions/labdataentry.pdf>

**LIMS USER Manual:**

<http://materials.dot.state.fl.us/smo/laboratory/lims/resources/training/usermanual/index.htm>

**Structural Concrete Plastic Properties Sample Instructions:**

<http://materials.dot.state.fl.us/smo/laboratory/lims/resources/instructions/concreteplasticproperties.pdf>