

Materials Acceptance in LIMS

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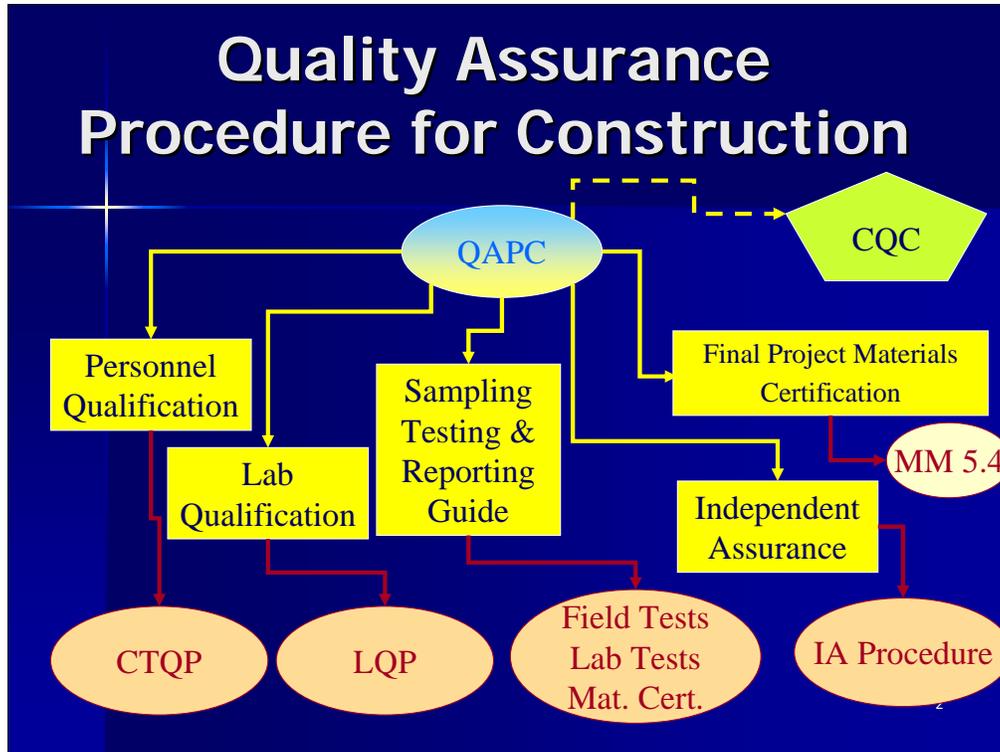
Introduction

Purpose of the workshop – SMO annual goals for updates for QC Program and LIMS Contract Administration issues

This workshop merges both.

- What's available in LIMS?
- What is the contract administration process?
- Overview of the QC Program and how it fits in LIMS

Quality Assurance Procedure for Construction



Overview of the QAPC

The Code of Federal Regulations requires the each State Highway Agency have a Quality Assurance program that contains:

- A personnel qualification program (FDOT = CTQP)
- A laboratory qualification program (FDOT = LQP MM 5.7)
- A sampling, testing and reporting guide (FDOT = STRG in LIMS)
- A final project materials certification (FDOT = MM 5.4)
- An independent assurance program (FDOT = IA MM 5.3)

Contractor Quality Control was not required by the Federal code, but was offered as an option that FDOT took advantage of. The goal is that Contractor Quality Control will move the Department and Industry closer to performance specifications.

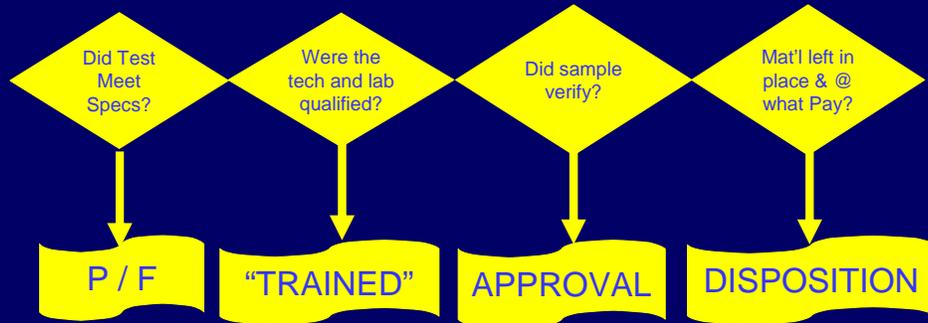
We will Cover...

- **Basic of LIMS**
- Starting a Project
- QC Program
- Monitoring a Project
- Review and Q & A

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The purpose of this workshop is not to provide hands on training. However, you'll need to know some of the LIMS basics and terminology to understand how many of the reports are generated.

Material Acceptance and LIMS



This is a general illustration of what key points can come into play in the acceptance process. They may or may not result in an exception, but they are indicators of where to look.

Sample Life Cycle in LIMS

- A Sample is LOGGED IN
- A Sample is RECEIVED
- An Individual Test PASSES or FAILS
- An Individual Test is VALIDATED
- A Sample is APPROVED
- Some Samples are assigned a DISPOSITION code

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In regards to LIMS basics, let's review the sample life cycle.

Log in = the field personnel log all samples into LIMS. Lab personnel do not log lab samples into LIMS.

When a lab sample is physically at the lab, the lab receives the sample. Field samples are auto-receipt.

Tests are performed on the sample and individual results are entered in the result entry stage.

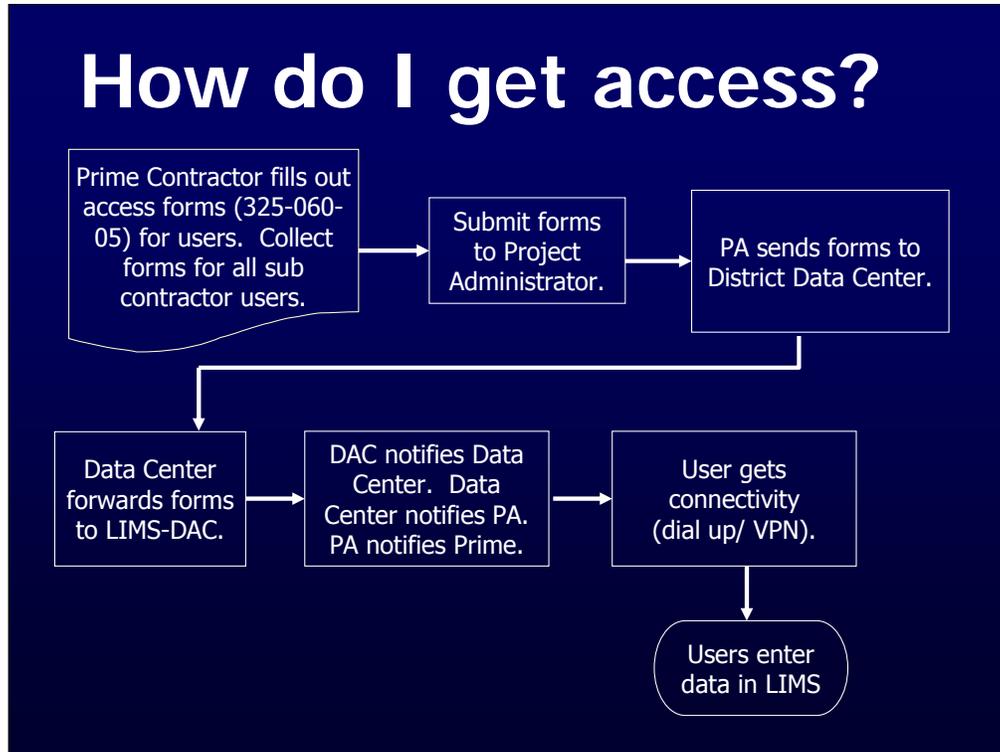
Test results are validated in the validation stage. This stage allows data entry personnel to revise any data that might be in error before the sample is passed on to the approval stage.

In the approval stage, the sample comparison decision is recorded.

For Contractor Quality Control samples, a disposition code is assigned to the "Q" level samples.

For non-Contractor Quality Control samples, a disposition code is assigned to the "V" level samples.

How do I get access?



Before you can enter data in LIMS, you need to get access. For Contractor personnel, here is the process:

For CCEIs, the process is similar except that you will submit your applications to the FDOT Project Manager.

For examples of the Contractor's forms, see the SMO LIMS website.

NOTE: This process must be repeated for every project. OIS requires this, not LIMS. This way they can update the userid expiration dates as needed.

Security Levels

- Level 1 – View Only (Status & Reports)
- Level 2 – User (Sample & Test Data Entry)
- Level 3 – Approver (PA or Designee)
- Level 4 – Requestor (Not activated yet)
- Level 5 – DMO (IA, Lab, QC Program)
- Level 6 – DMO Mix Design management
- Level 7 – District Application Coordinator

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These are the security levels for Users. Contractor need Levels 1 and 2

Level 1 = View only. Sample status reports.

Level 2 = Data entry

Level 3 = Approver. These are verification personnel who make the verification decisions.

Level 4 = Requestor - NOT USED AT THIS TIME

Level 5 = Program Coordination – Lab Approver, Proficiency Sample Program Administration, Producer Approver, IA Evaluators, Certification Personnel

Level 6 = District Materials Office role in approval or change in mix designs for project by project basis

Level 7 = District Application Coordinators

How to get help...

- Submit all questions & issues to the local Help Desk (e.g. D1HELP)
- Submit a question online

<http://www.dot.state.fl.us/statematerials/office/laboratory/lims/comment.html>

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LIMS Issues are handled by the local help desk. If it is a state wide issue, it gets bubbled up to the State Materials Office help desk. There it is assigned to one of the Super Users.

You can also submit a question on line at the SMO web site.

User Support: Contacts

- District 1 & 7
- District 2
- District 3
- District 4 & 6
- District 5
- Turnpike
- Don Faulkner
- Ron Henley
- Tonya Myers
- Ernst Registre
- Jennifer Taylor
- Brad Biery

Contact information is also on the web

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Here are the DISTRICT APPLICATION COORDINATORS. They will be assigned to assist with local issues related to LIMS. If they can't resolve it or if it affects users state wide, they will bubble it up to SMO.

Contractor's Role In LIMS

- Obtain a Lab ID
- Obtain User IDs with proper security
- Get connected
- Get trained
- Data Entry (QC and IA)
- Request Governing Lab, if desired
 - Project Based

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An authorized lab is a laboratory that has been qualified by the Department. It is also an Office or Laboratory that has a LabID.

Field offices for Contractors and CCEIs will be assigned a LabID. By field office, that would be an office that covers a certain region, not necessarily a project specific field office.

Resident Construction Offices will also be assigned a LabID.

Resident Office & CCEI Roles & Responsibilities

- Sample Log In
- Result Data Entry for Field Tests
- Sample Approval
- Disposition
- Final Project Certification Process
- Process Contractor & CCEI Access Requests
- Process Governing Lab Requests

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Logging in Lab samples

Result entry for field tests

Sample Approval and Disposition on samples that require a disposition code

Coordinating with District Materials Offices or State Materials Office for Final Project Certification

The PA is the point of contact for Prime Contractor Requests

The Project Manager is the point of contact for CCEI requests

DMO Roles & Responsibilities

- Assign LIMS Access to Users
- Sample Level Maintenance
- Manage Authorized Labs
- Manage Accepted Producers
- Manage IA program

More...

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District Materials Office personnel perform LIMS maintenance and manage the QC Program and IA program in LIMS.

DMO Roles & Responsibilities

- Sample Data Entry
- Process Tracking
- Final Project Certification process
- Train Users

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They also perform some sample data entry. Most Resolution sampling and testing is performed at the District Materials Offices since the Resolution labs are required to be AASHTO accredited by the Federal Code.

Process Tracking is the Statewide Materials Model term for how long it takes the Materials Offices to perform certain process. You will see these types of functions denoted in LIMS with a “PRO...” Material Id. For example, PROCER is the process tracking for the Final Project Materials Certification Process.

Speaking of Final Project Materials Certification Process, due to many changes in the process and personnel at SMO, the District Materials Offices now are involved in the Final Project Materials Certification Process. You may be contacted by a District Materials Office person during the course of your project to address findings. This is due to there being a statewide goal of 25 days from final acceptance for the Final Project Materials Certification Process.

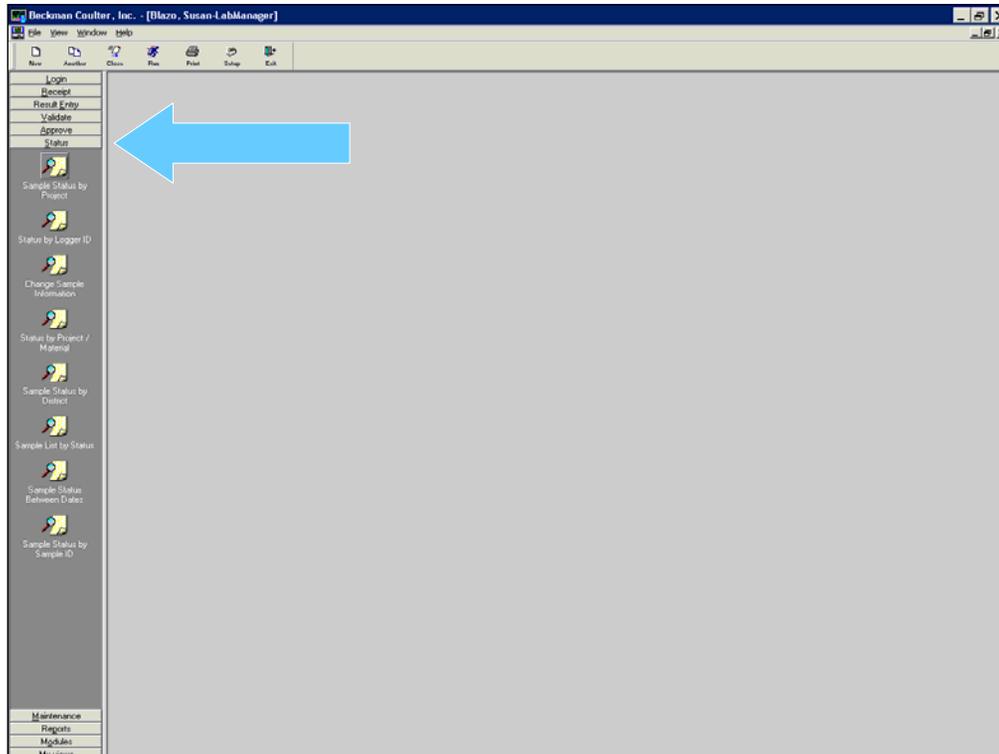
If you need LIMS training, contact your local District Application Coordinator.

LIMS Status Screens

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Now that we know who does what, what can LIMS do for us?

One way to find information in LIMS is through the status screens.



Here is how you access the status screens.

Each screen filters the information in LIMS a different way. If you only want to view a particular sample, use the Sample Status by Sample ID screen and enter in the LIMS Sample ID. If you want to see all the sample IDS under a particular logger, use the Sample Status by Logger Id.

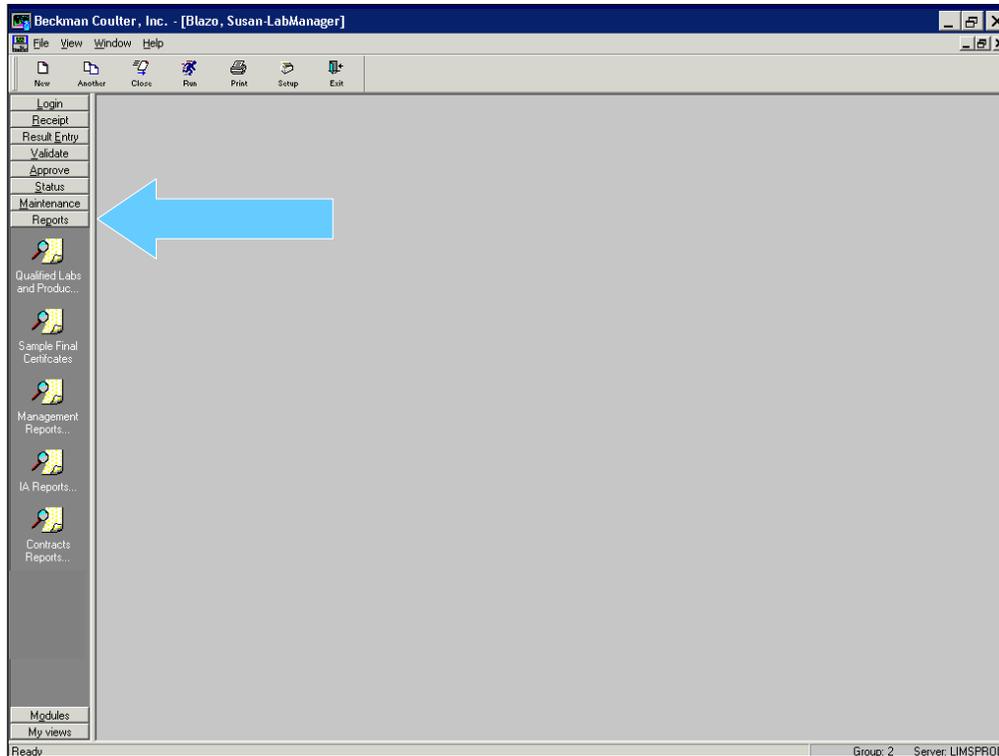
Later on, we'll take a closer look at Sample Status by Project.

NOTE: All the options on this screen are level 1 except for the Change Sample Information which requires a level 2 security. This option allows users to change sample header information. This would be information like station from and station to and other Sample Transmittal Card information. For changing test information that is incorrect, there is an option available at the Validation stage that is explained in the data entry hands on training.

Reports in LIMS

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LIMS also has some standard reports that can assist you.



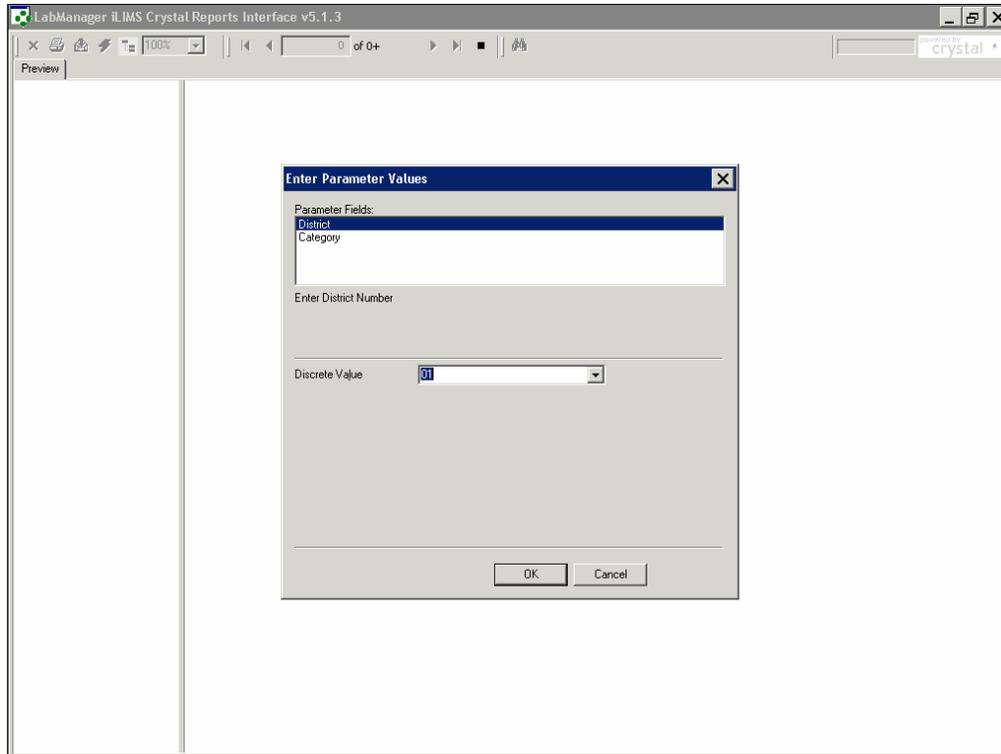
All of the reports are available from the Reports tab. Like the status tab, all users with at least Level 1 security have access to these reports.

Since there are many more reports than status screens, the reports navigation is a little more complicated. All the navigation steps to generate a report in LIMS are on pages one through three of the reports hand out.

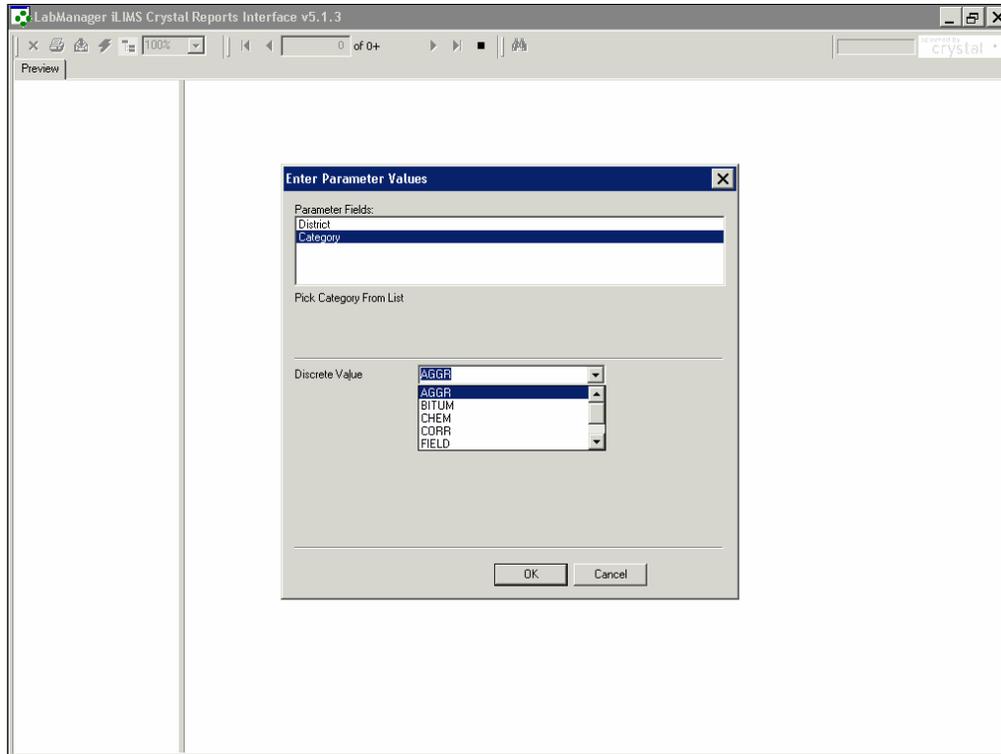
One report, the Sample Final Certification can be generated directly from the icon.

Other reports are generated by clicking on an icon, clicking on an option from one or more drill down lists, then entering parameters if required.

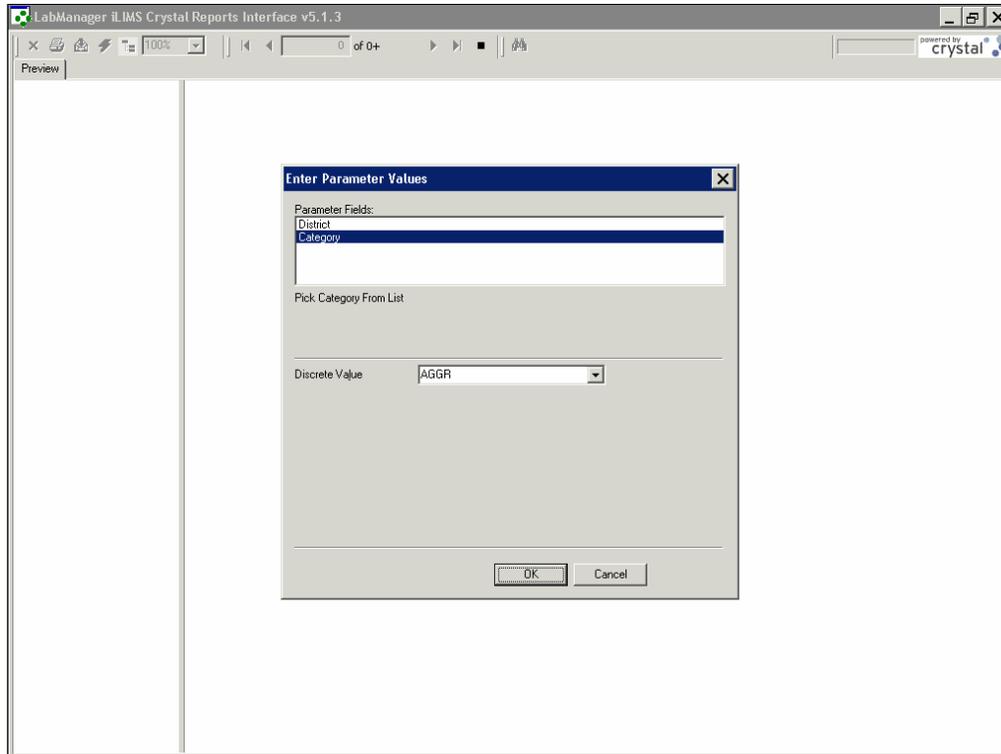
Let's look at an example. On the first page, there are instructions for the Qualified Labs by District report. Click on the Qualified Labs & Producers icon, click on the Qualified Labs by District option on the drill down list. When the box opens for the parameters, click on the district and then click ok to generate the report.



When the window opens, the first parameter is highlighted. Use the drop down list to chose the correct option.



Click on the second parameter. Then use the drop down list to identify the correct option.



Once all parameters are identified, click on the OK button to generate the report.

We will Cover...

- Basic of LIMS
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In our next component, we'll look at a few reports that will assist you in starting up for a project.

Job Guide Schedule

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The Job Guide Schedule is just that, a guide. Refer to your contract documents to ensure that all sampling and testing requirements are covered. An example of a document that would not be covered by the Job Guide Schedule is a technical special provision.

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19150

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

**Florida Department of Transportation
Job Guide Schedule**

3/7/2005 11:37:24AM

Contract No.: 21815025281
Contract Number: 13333

Managing District: 03 Section: 040
Contractor: ANDERSON COLUMBIA CO., INC.

PAY ITEM	PAY ITEM DESCRIPTION	MATERIAL ID	MATERIAL DESCRIPTION	CATEGORY	TEST CODE	X OR B	BID QTY.	UNIT OF MEASUREMENT	REQ'D. NO. OF SAMPLES	TEST BY	SAMPLE LEVEL
2 120 1	EXCAVATION REGULAR					X	10.928.00	CY	Refer to Frequency		
	998										
	No Lab Test Required									FF	V
	ALL				SPFC					Other	NOT APPLICABLE
2 120 4	EXCAVATION SUBSOIL					X	10.743.00	CY	1.074.00		
	004r										
	Embankment-Roadway Construction									STG Spec 120	FD
	SOIL				FMI-1232					10 Sample(s) Per 100.00 CY	W/A
	SOIL				FMI-1232					No Frequency Specified	W/A
	Embankment-Roadway Construction									STG Spec 120	QP
	SOIL				FMI-1232					1 Sample(s) Per 1.00 Lot	NOT APPLICABLE
	Embankment-Roadway Construction									STG Spec 120	FF
	SOIL				FMI-1232					1 Sample(s) Per 4.00 Lots	NOT APPLICABLE
	004L										
	Embankment-Roadway Construction									CY	
										STG Spec 120	FD
											IV

Contract Reports

Job Guide Schedule

Financial Project No.

State Materials Office
5007 NE 39th Ave
Gainesville, FL 2609

Page 12 of 85

Here's what the report looks like.

Sampling, Testing & Reporting Guide

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The Sampling, Testing Reporting Guide is a report of all the Material ID information in LIMS. For cases where the Job Guide Schedule does not show the sampling and testing requirements, refer to the Sampling, Testing Reporting Guide to find the information.

Pay Items that May Require Core or Spread Rate

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This report shows all pay items measured by area. Some will need a spread rate or core, some will not. Use your discretion and pay item knowledge when running this report.

LabManager iLMS Crystal Reports Interface v5.1.3

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Florida Department of Transportation

Pay Items that may Require Cores or Spread Rate

Project ID: 22862015201

Page 1 of 1
Print Date: July 22, 2004
10:42 am

Pay Item Number	Description	Order Quantity
2110 4	PAVEMENT REMOVAL OF EXISTING CONCRETE	2084 SY
2162 3101	"FINISH SOIL LAYER(GRASSING OPERATIONS) (6")	2372 SY
2285701	BASE OPTIONAL (BASE GROUP 01)	1267 SY
2285715	BASE OPTIONAL (BASE GROUP 15)	433 SY
2327 70 6	"MILLING EXIST ASPH PAVT (1 1/2" AVG DEPTH)"	6021 SY
2327 70 8	"MILLING EXIST ASPH PAVT (2 1/2" AVG DEPTH)"	11526 SY
2522 1	"SIDEWALK CONC (4" THICK)"	1816 SY
2522 1	CONC SIDEWALK (4in THICK)	1816 SY
2522 2	"SIDEWALK CONC (6" THICK)"	346 SY
2522 2	CONC SIDEWALK (6in THICK)	346 SY
2575 1 1	SODDING (BAHIA)	2372 SY
3711 7	PAVT MARKING REMOVE THERMOPLASTIC	8725 SF

Number of Rows on Report: [12]

This is an example of the report. As you can see, Pavement removal would not need a spread rate or core, but Optional base might need coring.

We will Cover...

- Basic of LIMS
- Starting a Project
- **QC Program**
- Monitoring a Project
- Review and Q & A

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Now let's review the QC Program and how LIMS can help you track QC Program items.

QC Program

- QC Program per 6-8
 - Producer
 - Prestressed Plants
 - Accreditation
 - QC Plan
 - Others
 - QC Plan
 - Contractor
 - QC Plan

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What is “the QC Program”.

It is a materials based program established by Section 6.8 where the requirements for Producers and the Contractor are defined.

In general, a QC Program is a QC Plan and some other requirements. For example prestressed producers must have an acceptable QC Plan AND Accreditation in order to have an acceptable QC Program.

When you think QC program, think materials (structural concrete, hot mix asphalt, cement, timber, precast, prestressed, etc.) NOT necessarily Contractor Quality Control. There are items that are Contractor Quality Control that are not QC Program. One example is topsoil.

What's what?

- **Producer's QC Program:**
 - Includes QC Plan & other requirements.
 - Submitted to the Materials Offices per Article 105-3.
 - Example: Prestressed Plant requirements
- **Contractor's Quality Control Manual:**
 - A statewide Quality Control document, submitted to SCO.
- **Contractor's QC Plan:**
 - A project specific quality control document defined in Spec 105.
 - Could be an amendment to the QCM.
 - Submitted to the Pr. Admin. on each project.

Okay, so we use QC Program and QC Plan a lot. And there's also QC Manuals. It can all get confusing. How do you know which one is which?

QC programs are for Producers. It is a QC plan according to Specifications 105 + a some other requirement. For example, Prestressed Producers must have a QC Plan + PCI accreditation. Producer QC plans are submitted to the local District Materials Office except for cement and steel.

Contractor QC manuals are the company wide statement of Quality. They are submitted to the State Construction Office and reviewed by all District Construction Offices and District Materials Offices as well as the State Materials Office.

Contractor QC plans are the project specific plans submitted to the Project Administrator. It can include a QC Manual by reference.

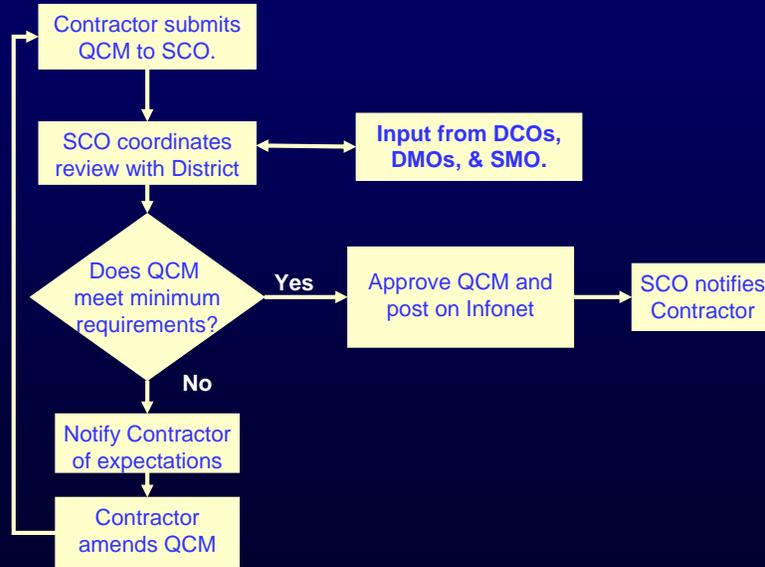
Contractor's QC Manual & Plan

Submittal, Checking &
Approval Processes

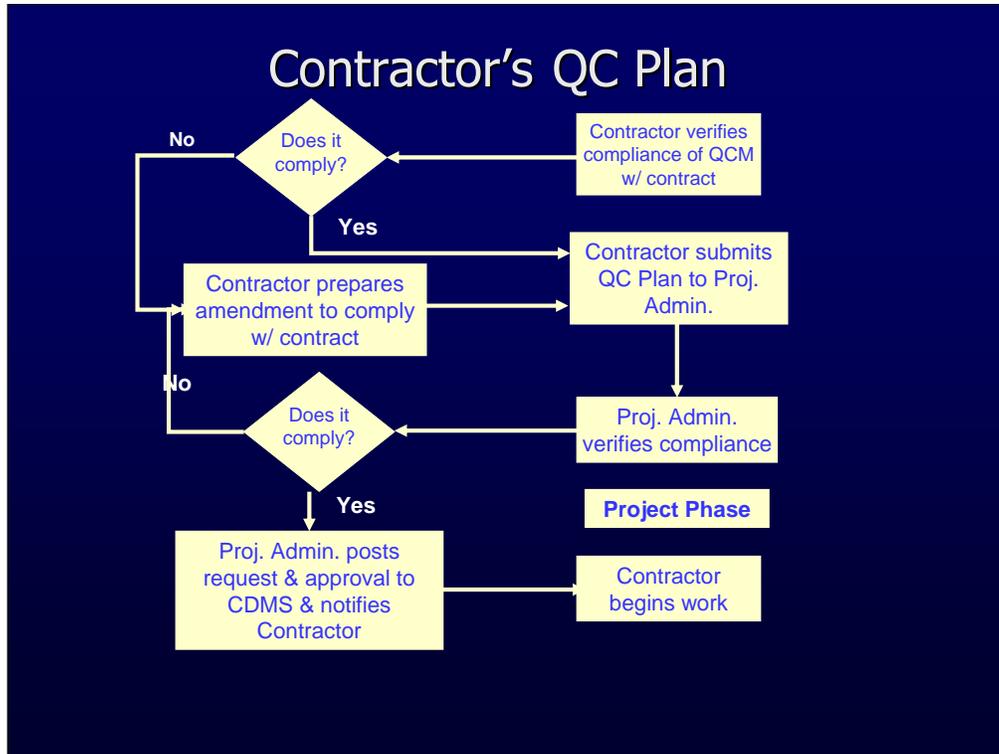
31

Let's look at the process for the Contractor's QC Manual and Plan. Later, we'll see how the Producer QC Program and Lab Qualification Program work as part of this process.

Contractor's QC Manual



This flow chart shows how the Contractor QC manual is reviewed and approved.



If the QC manual option is used, the contractor must expand it to include project specific items. If the QC manual is not used, the contractor must develop a project specific qc plan. Either way, it is reviewed for correctness and completeness.

What goes in a QC Plan...

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Shifting gears a little, we'll look at Section 105 which outline the major contents of a QC Plan whether it is for a Contractor or a Producer

105-2: Personnel

3.2: Personnel:

- Qualifications - TINs of lab & field techs
- Level of Responsibilities - Identify Primary contact & roles & responsibilities of all

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In the portion of the QC Plan, we want a list of TINs for the qualified personnel. But that is not enough. We need to know how the qualified personnel relate to each other. That can be accomplished through an organizational chart or descriptive language, but the idea is that we need to know who and how.

Checking Qualified Personnel

Active Technicians Per District

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How do you know who is qualified?

LabManager iLMS Crystal Reports Interface v5.1.3

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Preview

- ASTM C 1064
- ASTM C 143
- ASTM C 173
- FM 5-501

DISTRICT 01 CONCRETE FIELD TECHNICIAN - LEVEL 1 Active Technicians

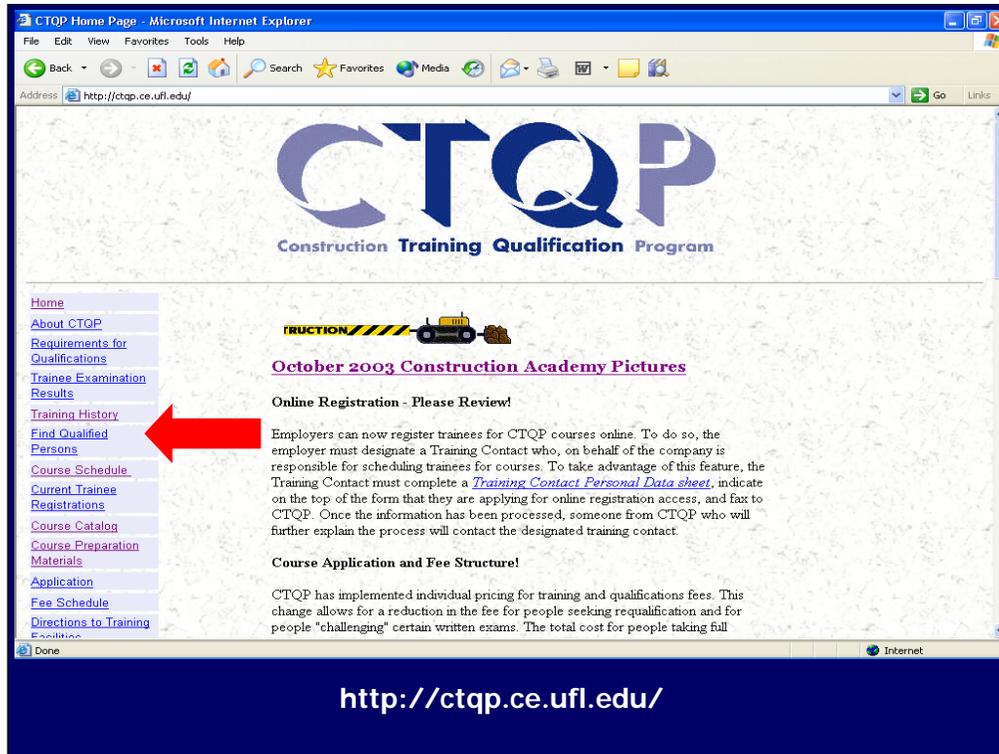
5/14/2004

PROJECT ID	SAMPLED BY	DATE SAMPLE TAKEN	PERFORMED BY	PERFORMED ON	PERFORMED BY LAB ID	SAMPLE ID	SAMPLE LEVEL
<i>TEST METHOD: ASTM C 1064</i>							
19770015201	B65377061-000	3/16/04	B65377061-000	3/16/04	I05016	0400003169	Q
19770015201	S56129860-000	3/17/04	B65377061-000	3/17/04	I05016	0400003179	Q
19735525201	H40000955-000	3/15/04	H40000955-000	3/15/04	A0729	0400003511	Q
19770015201	S00025975-000	4/20/04	S00025975-000	4/20/04	I05016	0400005550	Q
19770015201	S00025975-000	4/21/04	S00025975-000	4/21/04	I05016	0400005874	Q
19770015201	S00025975-000	4/22/04	S00025975-000	4/22/04	I05016	0400005975	Q
19770015201	S56129860-000	3/15/04	S56129860-000	3/15/04	I05016	0400003164	Q
19770015201	S56129860-000	3/21/04	S56129860-000	3/21/04	I05016	0400003198	Q
19770015201	S56129860-000	3/22/04	S56129860-000	3/22/04	I05016	0400003263	Q
19770015201	S56129860-000	3/23/04	S56129860-000	3/23/04	I05016	0400003512	Q
19770015201	S56129860-000	3/24/04	S56129860-000	3/24/04	I05016	0400003525	Q
19770015201	S56129860-000	3/25/04	S56129860-000	3/25/04	I05016	0400003464	Q
19770015201	S56129860-000	4/14/04	S56129860-000	4/14/04	I05016	0400005146	Q
19770015201	S56129860-000	4/15/04	S56129860-000	4/15/04	I05016	0400005426	Q
19770015201	S56129860-000	4/16/04	S56129860-000	4/16/04	I05016	0400005429	Q
19770015201	S56129860-000	4/19/04	S56129860-000	4/19/04	I05016	0400005463	Q
19770015201	S56129860-000	4/25/04	S56129860-000	4/25/04	I05016	0400005877	Q
19770015201	S56129860-000	4/26/04	S56129860-000	4/26/04	I05016	0400006018	Q
19770015201	S56129860-000	4/27/04	S56129860-000	4/27/04	I05016	0400006123	Q
19770015201	S56129860-000	4/28/04	S56129860-000	4/28/04	I05016	0400006298	Q
19770015201	S56129860-000	4/29/04	S56129860-000	4/29/04	I05016	0400006405	Q

No. of Active Sampling Techs: 4 No. of Active Testing Techs: 4

1 Rev. 03/05/04

You can use this report from LIMS, but more than likely you will use the CTQP website.



This is the typical way most qualifications are verified.

What goes in a QC Plan...

continued

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[Back to Section 105](#)

105-100 QC Plan Guide

3.3: Raw Materials:

- Identify Sources. Provide necessary details.
- Method of verifying Certification (that the material is same).
- System of identifying, isolating & disposition of failing raw material.

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The green balloons are examples of Contractor QC plan information. The brown balloons are examples of Producer QC plan information.

What is a raw material? It depends on whether it's a supplier, producer or contractor. That will be what is described in this section.

Aggregate Supplier = No raw material

Concrete Producer = aggregate, cement

Contractor = load of concrete arriving on the project

105-3: QC Plan Guidelines

- 3.4: Storage of raw materials
 - Describe methods & measures for segregation, contamination & degradation.
- 3.5: Production Equipment (Not Testing Equipment)
 - Address, etc. on frequencies, Maintenance & procedures.
- Identification
 - N/A
- 3.6.2: Process Control System:
 - Methods & measures in addition to QC testing
 - May include inspection, process control S&T, etc.

Separating Stockpiles

Separating Stockpiles

Address, etc.

Conveyer Belt calibration

N/A

Rollers, Paver

The green balloons are examples of Contractor QC plan information. The brown balloons are examples of Producer QC plan information.

105-3 QC Plan Guidelines

- 3.6.3: Loading & Shipping
Aggregate Types
Concrete Delivery Ticket
- Methods, Measures of Protection, Installation, Certification, N/A
- 3.6.4: Types of products from the Department.
Installation Certification
- 3.7.1: Examples of Certifications issued.
- 3.7.2 Statements of compliance
- 3.7.3: List of approved producers.
Producers with Accepted QC Programs
- 3.7.4: Storage, location & procedures for supporting documents.

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The green balloons are examples of Contractor QC plan information. The brown balloons are examples of Producer QC plan information.

3.6.4 – In a producer’s QC plan, some producers will list the types of products they wish to supply, for example aggregate, cement and incidental precast. This will become important later when we review Contractor QC plans to make sure the sources listed can actually supply the required materials.

3.7.1 – If you don’t get any information in this section on the Contractor’s QC plan, don’t worry. There aren’t many certifications required for Contractors under 6.8 yet.

3.7.3 – This is where the Contractor listed producers.

3.7.4 – This is where Contractors and Producers describe where they keep QC backup documentation in case the Department wants to review it later since we don’t ask for copies of everything any more.

Checking Qualified Producers

LIMS Producer Reports

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So how do you check 3.7.3? This is one area that District Materials Office personnel will verify. If you wish to check it, use the SMO website.

SMO Web Site for Producers

The screenshot shows a Microsoft Internet Explorer browser window displaying the SMO website. The address bar shows the URL: <http://materials.dot.state.fl.us/smo/Administration/approvedlists/postjuly2002.htm>. The website features a header with the text "MATERIALS AND RESEARCH" and a navigation menu on the left with links: [SMO Home](#), [Publications](#), [New Facility](#), [Web Index](#), [Materials Engineers](#), [Lab Management](#), [CTOP Contacts](#), [Lotus Notes](#), [Infonet](#), and [Web Master](#). The main content area is titled "Materials Listings: For Contracts Let After July 1, 2002" and lists the following categories: Aggregates: [Aggregate Approved Source Listing](#); Asphalt: [Approved Asphalt Plant List](#); Cement: [Approved Cementitious Materials List](#); Concrete: [Approved Concrete Plant List](#); and Laboratories: [Qualified Laboratories](#). A blue box labeled "Producers by Type" is positioned to the right of these categories. Below the listings is a section titled "Other Related Links" with links to [Approved Products List](#) [Traffic Engineering], [Qualified Products List](#) [Specifications Office], [Prequalified Consultants](#) [Professional Services], and [Prequalified Contractors](#) [Contracts Administration]. At the bottom, contact information for the State Materials Office is provided: 2096 Northeast Weldon Road, Gainesville, Florida 32609; Materials Research Park - 5007 NE 99th Avenue, Gainesville, FL 32609; Telephone: 352-337-3100 | SunCom: 642-3100 | Fax: 352-334-1648.

<http://www.dot.state.fl.us/statematerialsoffice/quality/programs/qualitycontrol/materialslistings/postjuly2002.htm>

Use the SMO website to review the producers.

LabManager iLIMS Crystal Reports Interface v5.1.3

Producers with Accepted QC Program 7/22/2004 Florida Department of Transportation

DRAINAGE District 02 By Plant Number

Facility Number	Company Name	Contact Name/Email	Phone Number	Physical Address	Mailing Address	Status (08/07/2004)
02 IPC - 04	SOUTHERN PRECAST INC.	ARLE A. ORZALEZ JR. www.southernprecast.com	336-462-2016	12366 SOUTHERN PRECAST DRIVE ALUCHEA FL 32015		QCP ACCEPTED
FPP-01	ADVANCED DRAINAGE SYSTEMS, INC (DPFB)	MIKE GATT	888-733-0636	115 CROWN POINT ROAD WINTER GARDEN FL 34787		QCP ACCEPTED
FPP-02	CORTCO CONSTRUCTION PRODUCTS INC (MET)	DALE BURCH	961-822-2660	323 N 33RD HWY. LAKTARA FL 33462		QCP ACCEPTED
FPP-03	CORTCO CONSTRUCTION PRODUCTS INC (MET)	MICHELLE ROBARB	813-241-1100	1621 N 43RD STREET TAMPA FL 33626		QCP ACCEPTED
FPP-04	QUALITY CULVERT, INC (DPFB)	CARL TYNER	888-343-8422	28726 COUNTY ROAD 961 HUNTSVILLE FL 34785		QCP ACCEPTED
FPP-05	RINKER MATLS. & VYDO CONDUIT DIV (METAL)	WILLIAM BURKETTE	727-641-2261	3280 62ND STREET NORTH PIELHAS PARK FL 33761		QCP ACCEPTED
FPP-06	OHLY ATLANTA CULVERT CO INC (METAL)	BILL MITT	888-622-2281	834 GATSBY DRIVE TALLAHASSEE FL 32303		QCP ACCEPTED
FPP-07	HARCO, INC (DPFB)	ROB BUCKLEY	407-822-9616	1 SLEMAN DRIVE SEEBURG FL 32870		QCP ACCEPTED

1

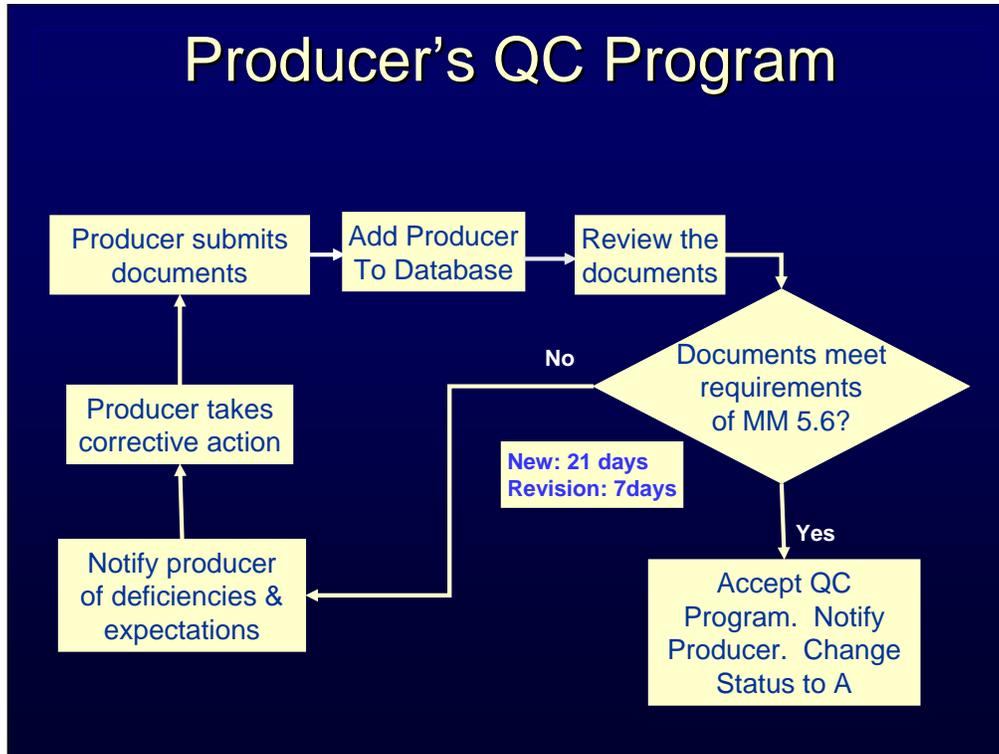
Or run the reports in LIMS for the latest information. The options for generating the reports in LIMS are:

- Aggregate Sources
- Precast
- All Other Sources
- All Other Sources by Company
- All Other Sources by Number
- All Other District & Type
- All Other by District

NOTE: Previous to LIMS, producers and labs on these lists were only the ones with an “accepted” status. Now all producers and labs are listed with their latest status. Verify that that producers have a status of “QCP accepted”.

NOTE: The cement report is not generated from LIMS.

Producer's QC Program



Now we'll depart a little from Section 105 and review how a producer gets an accepted QC program. Producers use 105 to detail their plans as well. The process is a little different. Let's look at their process.

What goes in a QC Plan...

continued

47

[Back to Section 105](#)

105-3 QC Plan Guidelines

- 3.8.1: Storage of final manufactured product when not in specs.
 - Methods to avoid contamination & ...
- 3.8.2 Disposition of Failing Materials
 - When not described in the ...
 - Methods of identification, ...

Damaged drainage structure stored on-site

Failing Concrete at plant

48

The green balloons are examples of Contractor QC plan information. The brown balloons are examples of Producer QC plan information.

The words “when not in specs” are significant. Contractor QC Plans should not have any wording that refers to complying with the specifications. For example, the Contractor QC Plan should NOT state “The asphalt will be transported in accordance with Specification 330”. What the Contractor QC plan should say is HOW they will comply with 330.

105-3 QC Plan Guidelines

- 3.9 Final product: field operations
 - **Transportation:** method of delivery.
 - **Storage:** method & location of storage when not in use.
 - **Placement:** method of placement.
 - **Disposition** of failing material: Methods & measures, when not in specs, for identifying & controlling failing material.

Failing Concrete Slab, in place

49

We looked at raw materials. What's a final product?

This is the contractor exclusively since it's field operations.

Disposition of Failing Material is a recurring area that we haven't talked about yet. Whenever there is a call for disposition of failing material information, what needs to be addressed is what processes are in place to avoid failing material. There are several issues that should be addressed in these sections:

1. Processes to avoid failing material.
2. Processes to identify failing material.
3. How the Department is notified of the failing material.
4. How the failing material is addressed.
5. What is being done to make sure the failure does not reoccur.

This doesn't have to be specific at first, but Project Administrators can ask for specifics as needed in QC Plan revisions.

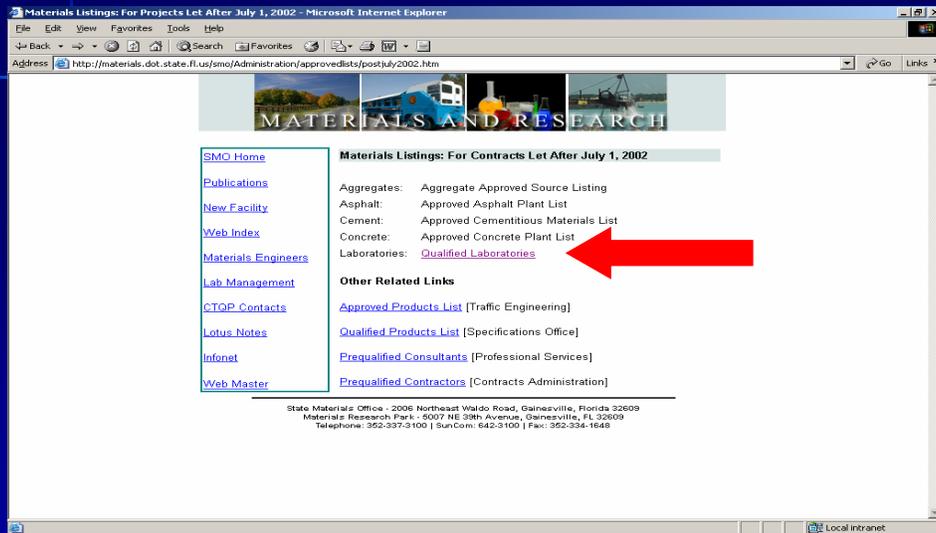
105-3 QC Plan Guidelines

- 3.10 Testing Labs: Identify qualified labs.

50

Use the SMO website to verify labs.

SMO Web Site for Labs



<http://www.dot.state.fl.us/statematerialsoffice/quality/programs/qualitycontrol/materialslistings/postjuly2002.htm>

Use the SMO website to view the laboratory listing.

NOTE: Previous to LIMS, producers and labs on these lists were only the ones with an “accepted” status. Now all producers and labs are listed with their latest status. Verify that that laboratories have the correct test methods for the areas they are shown in the QC Plan.

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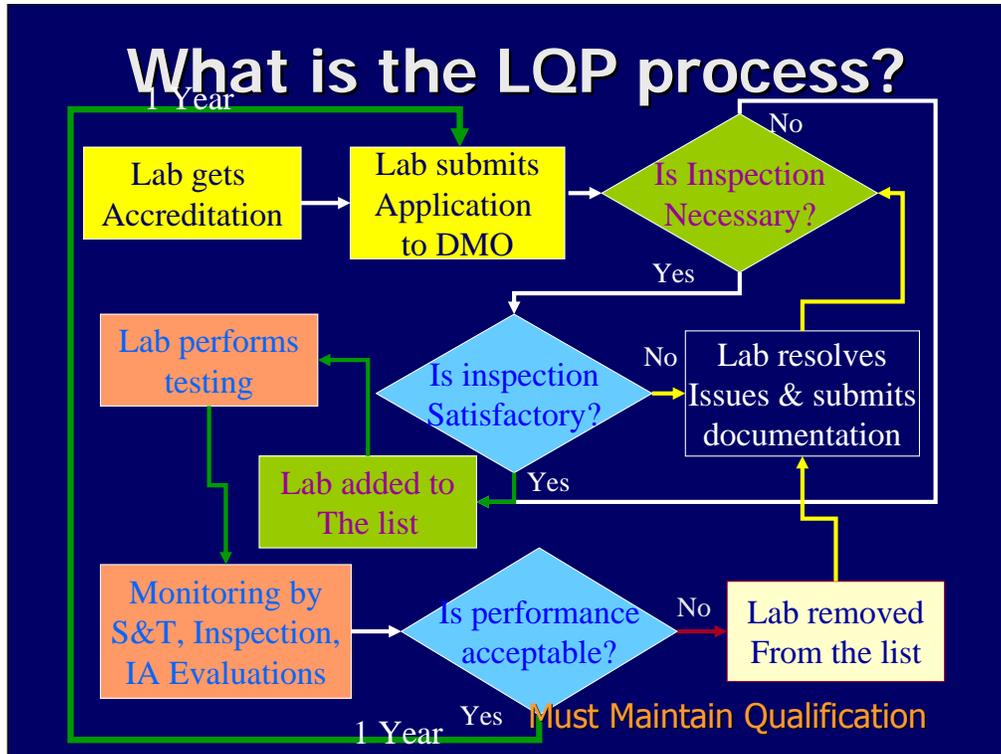
05/14/2004

Complete Qualified Laboratory Information

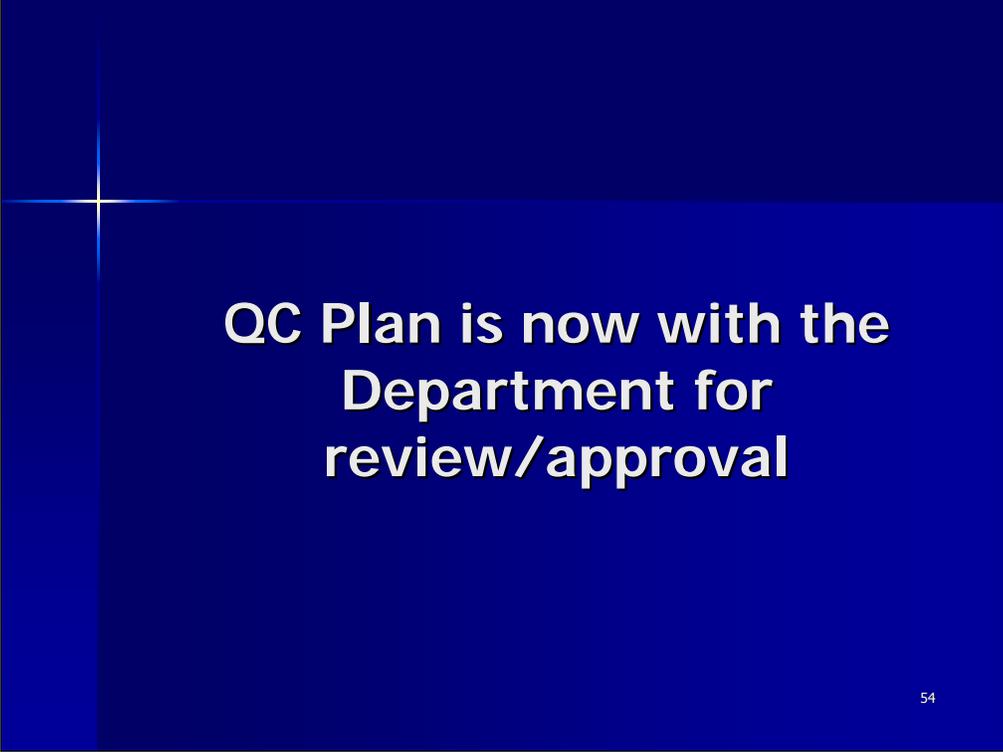
CATEGORY	METHOD_ID	STATUS	CITY	STATE	ZIP	CONTACT TELEPHONE	FAX NUMBER	EMAIL
AGGR								
A.M. Engineering and Testing Inc.								
ID4020	A.M. Engineering and Testing Inc		3504 Industrial 33th Street			Mark Barkley	772/461-8680	CMEC
AGGR	EXP_DATE	11/04/2004	Ft. Pierce	FL	34946	772/461-7508	amengineering@bellsouth.net	
	AASHTO T 27	InProgress						
	FM 1- T 84	InProgress						
	FM 1- T 85	InProgress						
	FM 1-T11	InProgress						
	FM 1-T 21	InProgress						
ASC Geosciences Inc								
ID1020	ASC Geosciences Inc		5811 Corporation Circle			Frank Murati	239/693-8652	NVLAP
AGGR	EXP_DATE	02/02/2005	Fort Myers	FL	33905	239/693-4334	fmurati@ascoworld.net	
	AASHTO T 21	Valid						
	AASHTO T 27	Valid						
	ASTM C 117	Valid						
	ASTM C 29	Valid						
	FM 1-T 085	Valid						
	FM 1-T 084	Valid						
	ASTM C 508	Valid						
Allied Engineering and Testing, Inc.								
ID1002	Allied Engineering and Testing, Inc.		5300-A Lee Blvd			Cal Santarelli	239/334-6614	CMEC
AGGR	EXP_DATE	11/15/2004	Lehigh Acres	FL	33970	239/334-6833	allie941@aol.com	
	AASHTO T 21	Valid						
	AASHTO T 255	Valid						
	FM 1-T 002	Valid						
	AASHTO T 27	Valid						
	FM 1-T 11	Valid						
	FM 1-T 94	Valid						
	FM 1-T 85	Valid						

Or use LIMS. The laboratory report options are:

- Qualified Labs Complete List
- Qualified Labs by District
- Qualified Labs by Category
- Qualified Labs by Dist & Cat



This flow chart shows how the Lab Qualification Process works.



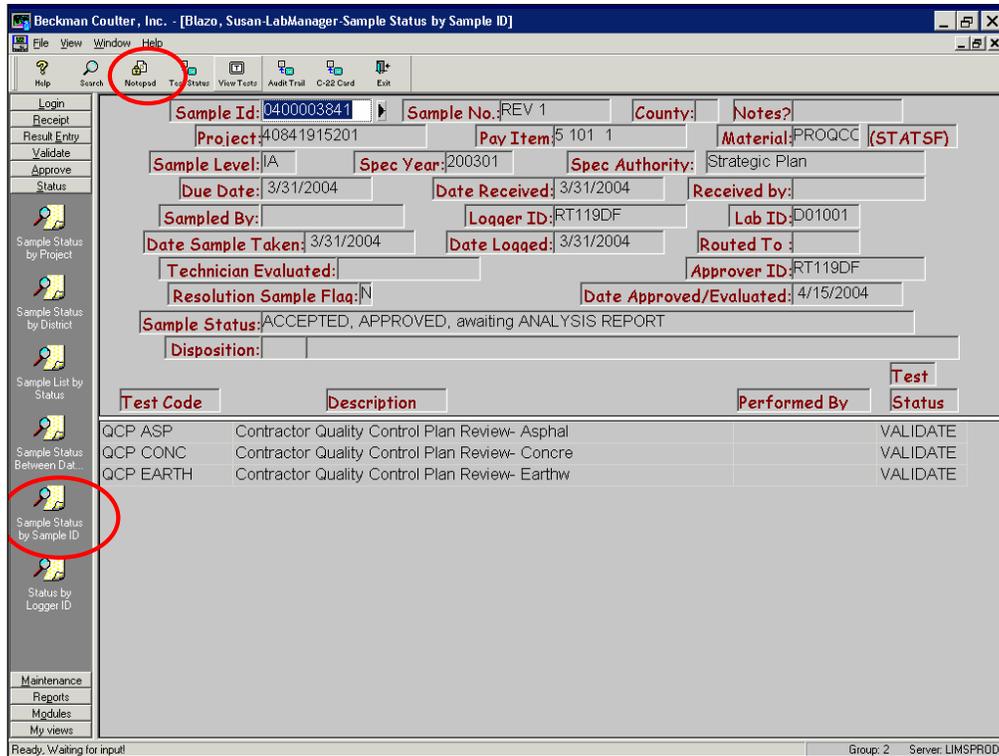
**QC Plan is now with the
Department for
review/approval**

54

What happens once the plan is approved?

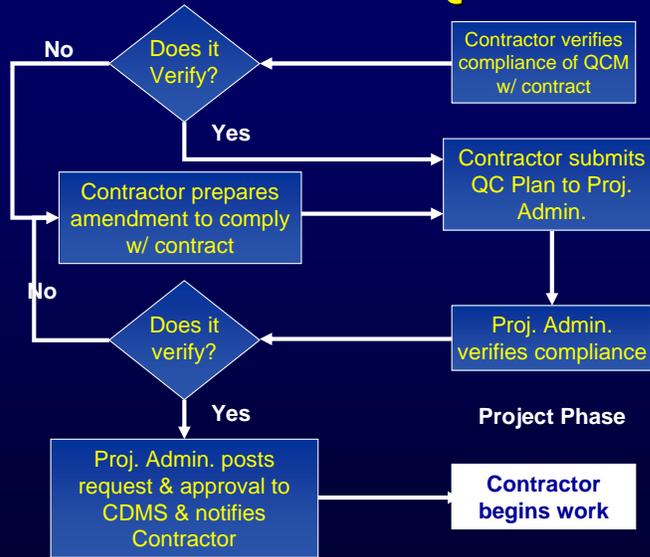
What occurs during the DMO review?

How can the plan be used once approved?



You may see a sample with the LIMS material ID, PROQCC on it. This sample is logged into LIMS by the District Materials Office and represents the DMO review time for Contractor Quality Control Plans. If you wish to see more information, click on the notepad icon to see if the DMO has entered anything in the note pad.

Contractor's QC Plan



We're to the point that the Contractor can begin work. That is until this point, the Contractor could not work on any material listed in 6-8 until the Contractor QC plan (or portion of the plan) was approved.

We will Cover...

- Basic of LIMS
- Starting a Project
- QC Program
- **Monitoring a Project**
- Review and Q & A

58

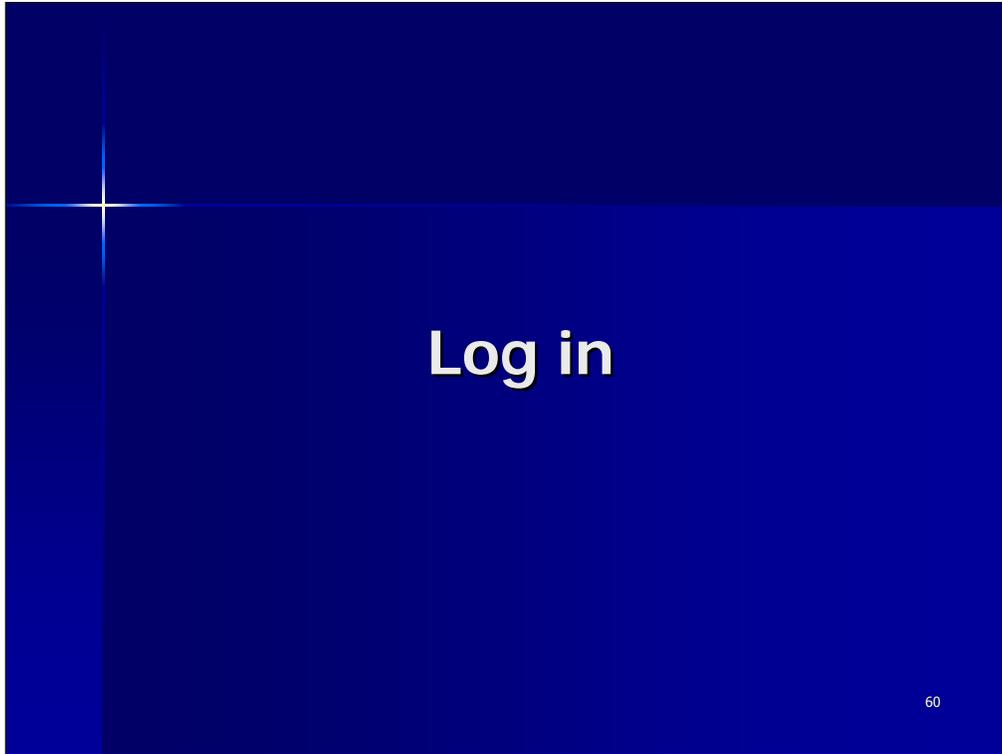
Now we'll review some information to monitor the project from the QC plan point of view.

We will Cover...

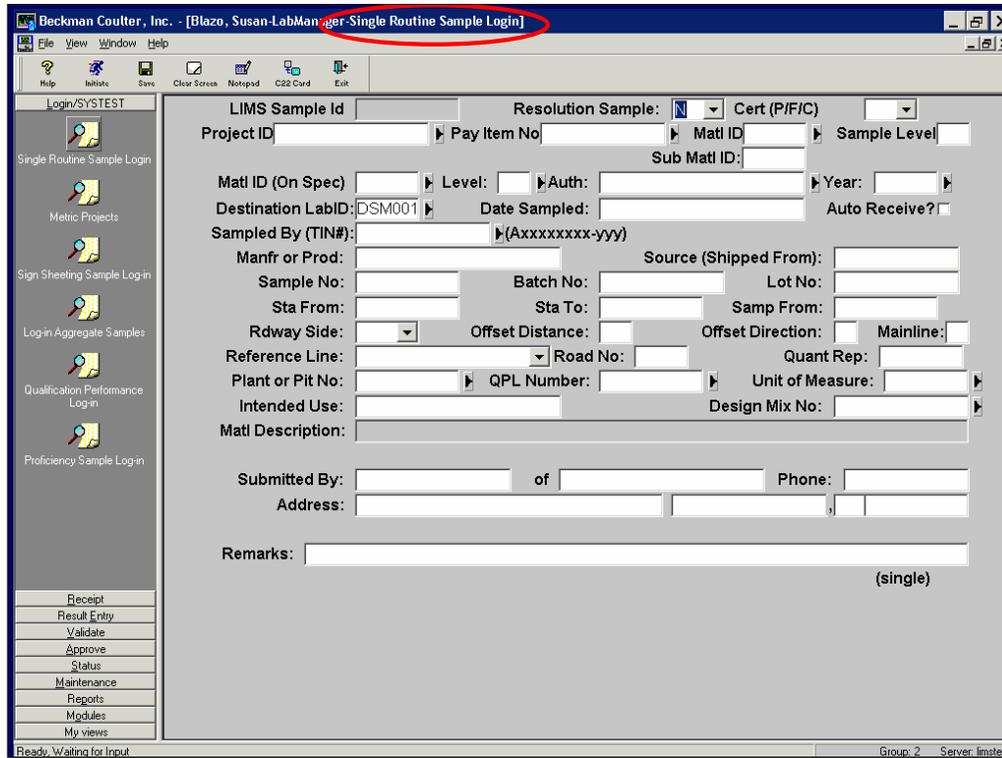
Monitoring Material Acceptance
Manufactured Products
Final Project Material Certification
Other Reports

59

Specifically, we'll look at material acceptance, manufactured products, final project certification and some other reports to help you monitor the project.



First, let's take a side trip and look at what can happen at log in to affect LIMS reports.



This is an example of the LIMS login screen. As you can see, there are a lot of fields to be reported on. Any field used in a report must be completed for that sample to show up in the report. For example, lot and subplot information that is blank will not be sorted properly on the Lot Index report.

LIMS Sample Entry Form Fields:

- LIMS Sample ID
- Resolution Sample: N
- Cert (P/F/C)
- Project ID
- Pay Item No
- Mat ID
- Sample Level
- Sub Mat ID
- Mat ID (On Spec)
- Level
- Auth
- Year
- Destination Lab ID: DSM001
- Date Sampled
- Auto Receive?

Project Id	Pay Item Number	Material Id	Sample Level	Spec Year	Spec Authority
19077725201	2 102 1	999	V	200207	STD Spec
19077725201	2 102 60	998	V	200207	Other
19077725201	2 102 74 1	997	V	200207	STD Spec
19077725201	2 102 74 1	998	V	200207	Other
19077725201	2 102 77	997	V	200207	STD Spec
19077725201	2 102 77	998	V	200207	Other
19077725201	2 104 10 1	998	V	200207	Other
19077725201	2 110 1 1	997	V	200207	STD Spec
19077725201	2 110 1 1	998	V	200207	Other
19077725201	2 120 2 2	004F	V	200207	STD Spec 120
19077725201	2 120 2 2	004L	V	200207	STD Spec 120
19077725201	2 120 2 2	004L	V	200207	STD Spec 120
19077725201	2 120 2 2	029	V	200207	STD Spec 987
19077725201	2 120 2 2	025	V	200207	STD Spec 987

Buttons: OK, Cancel, Help

Remarks: (single)

When a sample is logged into LIMS, the data entry person assigns a project, pay item, Material ID, Sample level, Spec Year and Spec Authority relationship to the sample. This information can not be changed once it is saved. If it is entered incorrectly, the sample must be purged and reentered. Most of the time these fields can be filled by choosing the correct combination from the drop down list.

In cases the correct combination is not present, chose the correct pay item, then use the “Material ID on Spec” field to assign the right Material ID. Finish out the action by typing in the same Material ID in the “Substitute Material ID” field.

By doing this, the sample will then appear correctly in the reports.

What Signifies Acceptance?

63

Also, we need to understand what acceptable material is before we look into how it affects the QC program.

Acceptance Definitions

- For **CQC** Testing:
 - **Asphalt** meets standards if C.P.F. for a Lot is $\geq 90\%$.
 - **Concrete** meets standards if "payment tests" pass.
 - **Earthwork** meets standards if 'QC' tests pass AND are verified.

- For **Non-CQC** Testing:
 - Material meets standards if 'V' test passes.

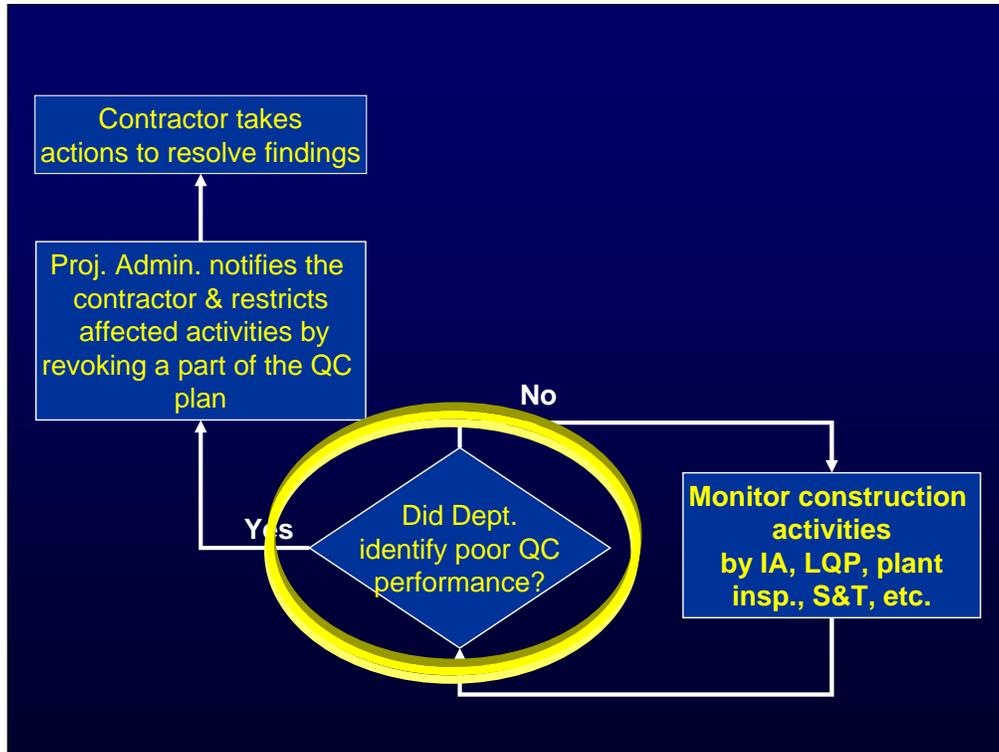
64

Here are the definitions for acceptable material for Contractor Quality Control and non-Contractor Quality Control materials.

How is the Contractor's QCP affected?

65

So, what does all this mean to the project and the Contractor's QC plan?



We're focusing on QC Performance so we have to understand what is acceptable. When the Department identifies poor QC performance, that might lead to a QC plan action. In some cases, the Department may opt to suspend the QC Plan or part of it. The Contractor will have to submit a revision to address the reason for the suspension.

What are some of the reasons for suspending QC Plans? There will be cases where project issues do not apply to the QC plan. There are others where they will definitely apply to the QC Plan. There may even be times when an issue falls under both categories.

Think of it in terms of what must be done to sustain the plan. There are five Department expectations.

Maintaining QC Program

Supply required information timely.

Example: On time data entry.

67

Expectation One: When the Department requests information, it must be supplied in a timely manner. This might be done by a letter from the District Materials Office to a Producer or through the Specifications. For example, the Specifications require that sample data entry must occur within twenty-four hours.

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Preview

004L
123F
405L
444

Florida Department of Transportation
Project ID: 19381215201

Samples That Are Not Tested Report

Material Sample ID	Sample Number	Spec Description	Sample Level	Spec Year	Spec Authority	Test Code	Test Description
004L	0400000319						
	00001Q	Embankment-Roadway Constructi	Q	200207	STD Spec 120	FMI-T180CQR	FSTM FMI-T180 modified pro
	00001Q	Embankment-Roadway Constructi	Q	200207	STD Spec 120	FM5-515	FSTM FM5-515 LBR Test
	00001Q	Embankment-Roadway Constructi	Q	200207	STD Spec 120	T89	AASHTO T89 Liquid Limit of 5
	00001Q	Embankment-Roadway Constructi	Q	200207	STD Spec 120	T90-CQR	AASHTO T90 Plastic Limits &
	00001Q	Embankment-Roadway Constructi	Q	200207	STD Spec 120	T99STDPRC_E	AASHTO T99-Standard Procto
123F	0400000392						
	P2036Q	BIT MIX-TYPE SP, FC, B	Q	200207	STD Spec 334	AS_BUILT	Roadway: As-Built Pavement D
405L	0400000381						
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FMI-T180CQR	FSTM FMI-T180 modified pro
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FM5-514DATA	FSTM 5-514% CO3 in limerock
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FM5-514SMO	FSTM 5-514% Carbonate in Li
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FM5-515	FSTM FM5-515 LBR Test
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	T88	AASHTO T88-97 Particle Size
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	T89	AASHTO T89 Liquid Limit of 5
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	T90-CQR	AASHTO T90 Plastic Limits &
0400000382							
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FMI-T180CQR	FSTM FMI-T180 modified pro
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FM5-514DATA	FSTM 5-514% CO3 in limerock
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FM5-514SMO	FSTM 5-514% Carbonate in Li
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FM5-515	FSTM FM5-515 LBR Test
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	T88	AASHTO T88-97 Particle Size
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	T89	AASHTO T89 Liquid Limit of 5
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	T90-CQR	AASHTO T90 Plastic Limits &
0400000386							
	00020Q	Base-Limerock Materials	V	200207	STD Spec 200	FMI-T180CQR	FSTM FMI-T180 modified pro
444	0400000834						
		SUPERPAVE PG ASPHALT BIN	V	200207	STD Spec 916	RO BITLIQUID	Results Only, Bituminous Liqui
		SUPERPAVE PG ASPHALT BIN	V	200207	STD Spec 916	RO BLIQUIDSA	Results Only, Bituminous Liqui
		SUPERPAVE PG ASPHALT BIN	V	200207	STD Spec 916	RO BLIQUIDSB	Results Only, Bituminous Liqui
0400001623							
		PG ASPHALT BINDER	V	200407	D Spec 916/PG64	RO PG 64-22	Results Only, PG 64-22 Liqui

This report tells you when samples are entered into LIMS, but do not have test results entered yet. If a Project Administrator ran this report and saw that earthwork sample results were not being entered in a timely manner, this might be a case where he or she would suspend the Contractor QC plan and ask for a revision that addresses how the QC Manager was going to ensure that earthwork sample results would be entered in a timely manner.

Maintaining QC Program ... Cont'd.

Material meeting Specification requirements.

Example: Composite Pay Factor Report

69

Expectation Two: Material meeting Specification requirements.

The goal of the QC Program is to have material that is consistently high quality. However, the Department will not accept material that does not at least comply with the Specifications.

Preview

0400001604
0400001605
0400001606
0400001609

Florida Department of Transportation

Asphalt with Composite Pay Factor < 90%

Page 1 of 1
Print Date: August 06, 2004
2:35 pm

PROJECT ID: 22978015201

Sample ID	Sample Number	Verified?	Disposition	Lot Number	Station From	Station To	Sample Qty	CPF
0400001604	ALLEN1	Yes	FULL PAY PER ENGINEER'S DECISION				400	0.88
0400001605	ALLEN2	Yes	REDUCED PAY PER ENGINEER'S DECISION				550	0.85
0400001606	ALLEN3	Yes	REDUCED PAY PER ENGINEER'S DECISION				7750	0.85
0400001609	ALLEN4	Yes	REDUCED PAY PER ENGINEER'S DECISION				300	0.78
4 Failing Samples							Total Quantity:	15,200

This report shows the asphalt on the project that is less than a 90% composite pay factor. Specifications 334 says the Department will take certain actions when this happens. Does that mean there is no option to address the Contractor's QC Plan? No. This is an example of an issue that is both a contract administration issue and a QC plan issue. The Project Administrator will follow 334, but also ask for a revision to the Contractor's QC plan that will address HOW the composite pay factor will be brought up and kept up above 90%.

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Preview

004F
004L
020F

Florida Department of Transportation

Non-Standard Earthwork Report
Project ID: 19077725201

Page 1 of 1
Print Date: July 22, 2004 10:47:55AM

Sample ID	Sample No.	Sample Level	Spec Year	Spec Authority	Lot No.	Test Code	Description	Test Status	Verified?	Disposition	
004F Embankment-Roadway Construction											
00001992		Q	2000	STD Spec 120		FM-1-T235	FSTM FM-1-T235 Nuclear Density of Soil & 8mm Coarse M.S.	FAIL	Yes	MATERIAL REMOVED & REPLACED, OR REMOVED.	
00001995		Q	2000	STD Spec 120	1	FM-1-T235	FSTM FM-1-T235 Nuclear Density of Soil & 8mm Coarse M.S.	FAIL	Yes	ACTION TAKEN (FOR EXAMPLE: MANUFACTURED PRODUCT V TESTING)	
004L Embankment-Roadway Construction											
00001385		V	2000	STD Spec 120		FMS-515	FSTM FMS-515 LBR Test	FAIL	No Sample to Compare with	MATERIAL REMOVED & REPLACED, OR REMOVED.	
020F STAB SUBGRADE & SHOULDERS											
00001300		IV	V	2000	STD Spec 150	1-2	FM-1-T235	FSTM FM-1-T235 Nuclear Density of Soil & 8mm Coarse M.S.	FAIL	No	NO PAY PER ENGINEER'S DECISION

Number of Rows on Report: [4]

LEGEND:
Q = Quality Control, V = Verification, IV = Independent Verification, R = Resolution

Here is another report that would identify material that does not meet Specifications. Depending on the number and/or severity of occurrences, the Project Administrator might suspend the earthwork portion of the Contractor's QC plan and ask for a revision that address HOW the failing earthwork will be addressed.

Maintaining QC Program ... Cont'd.

Take immediate corrective action relative to deficiencies in the performance of the QC program.

Example: Correct IA deficiencies.

72

Expectation Three: Take immediate corrective action relative to deficiencies in the performance of the QC Program.

This is a case where the Department has communicated some action on the Contractor's part to address QC program deficiencies and none has been taken.

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Preview

Technicians with Status other than Valid Status
6/4/2004

<u>TRESCODE</u>	<u>QUALIFICATION AREA</u>	<u>IIN</u>	<u>STATUS</u>	<u>NUMBER OF STRIKES</u>	<u>DATE EVALUATED</u>	<u>EVALUATED BY LAB ID</u>	<u>SAMPLE ID</u>
QQ000107	ASPHALT PLANT TECHNICIAN - LEVEL 1	P53410546	Suspended	3.00	11/4/2003	D01001	0300003134
QQ000107	ASPHALT PLANT TECHNICIAN - LEVEL 1	P53410546	Suspended	3.00	12/10/2003	D01001	0300003047
QQ000107	ASPHALT PLANT TECHNICIAN - LEVEL 1	P53410546	Suspended	3.00	12/10/2003	D01001	0300003229
QQ000007	AGGREGATE FIELD TESTING TECHNICIAN	G22274159	Suspended	3.00	6/19/2003	D5M001	0300001331
QQ000007	AGGREGATE FIELD TESTING TECHNICIAN	G22274159	Suspended	3.00	6/19/2003	D5M001	0300001332
QQ000007	AGGREGATE FIELD TESTING TECHNICIAN	G22274159	Suspended	3.00	6/19/2003	D5M001	0300001333

This report shows Technicians that have been suspended. If these technicians were listed in the Contractor's QC Plan, that would definitely entail a QC Plan suspension and/or revision to address the unqualified personnel.

LabManager iLIMS Crystal Reports Interface v5.1.3

Print Date: 6/4/2004

Technicians with Strike Report- Statewide

<i>TECHNICIAN ID</i>	<i>STRIKE NO.</i>	<i>STATUS</i>	<i>IA EVALUATOR/ OBSERVER</i>	<i>DISTRICT</i>	<i>DATE APPROVED</i>
AGGREGATE FIELD TESTING TECHNICIAN					
B21010661-000	1	Valid	RT820CC	SM	5/8/04
B40017477-000	1	Valid	RT820CC	SM	5/8/04
B51481271-000	1	Valid	RT820CC	SM	5/8/04
B65276579-000	1	Valid	RT820CC	SM	5/8/04
C24074746-000	1	Valid	RT820CC	SM	5/8/04
C61311656-000	1	Valid	RT820CC	SM	5/8/04
C61580173-000	1	Valid	RT820CC	SM	5/8/04
C63072747-000	1	Valid	RT820CC	SM	5/8/04
D11043749-000	1	Valid	RT820RD	SM	2/19/04
D12078359-000	1	Valid	RT820CC	SM	5/8/04
D51089245-000	1	Valid	RT820CC	SM	5/8/04
E14072142-000	1	Valid	RT820CC	SM	5/8/04
F60066451-000	2	Valid	RT820CC	SM	5/11/04
F64015069-000	1	Valid	RT820CC	SM	5/8/04
G53600367-000	1	Valid	RT820CC	SM	5/8/04
G62004351-000	1	Valid	RT820CC	SM	5/8/04
G62051363-000	1	Valid	RT820RD	SM	2/19/04
G62655555-000	2	Valid	RT820CC	SM	5/11/04
G66355568-000	1	Valid	RT820CC	SM	5/8/04
H30007662-000	1	Valid	RT820CC	SM	5/8/04
H40001275-000	1	Valid	RT820CC	SM	5/8/04
H63079652-000	1	Valid	RT820CC	SM	5/9/04
K22043357-000	1	Valid	RT820CC	SM	5/8/04
K40007077-000	1	Valid	RT820CC	SM	5/8/04

This report can be run prior to the technicians becoming suspended. The purpose of IA is not to suspend personnel, but to identify areas where sampling and testing methods are not being followed and provide coaching to personnel to eliminate variability.

If the QC manager was made aware of technicians that needed coaching but did not make arrangements to provide it, that could warrant a QC plan action. The Project Administrator would suspend the area the technician is listed in (such as earthwork) and ask for a revision stating HOW the Contractor is going to address the unsuccessful IA reviews.

LabManager iLIMS Crystal Reports Interface v5.1.3

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Preview

B32388363-000



**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
QUALIFICATION PERFORMANCE REPORT**

<p><u>Project Information</u></p> <p>FIN: <u>N/A</u> County/Section: <u>N/A</u> <u>N/A</u> Date Evaluated: <u>January 29, 2004</u> Location: <u>AL-172</u> Resident Office:</p> <p><u>Type of Evaluation:</u> IA OBSERVATION</p>	<p><u>Technician Information</u></p> <p>Sample ID: <u>0400000699</u> Tech ID: <u>B32388363-000</u> Active in District: <u>SM</u></p> <p><u>Qualification(s) Reviewed:</u> AGGREGATE FIELD TESTING TECHNICIAN</p>
---	---

Qualification Performance Report Form

Was Equipment okay? Yes
 Test Results can be viewed through "Status by Sample ID" in LIMS.

FM 1-T 002AF CHECKLIST: FM 1-T002 Sampling Aggregates **PASS**

Test Results can be viewed through "Status by Sample ID" in LIMS.

FM 1-T 248AF CHECKLIST: FM 1-T248 Reducing Aggregate Sample **PASS**

Test Results can be viewed through "Status by Sample ID" in LIMS.

Evaluation Summary:

Was Sampling, Testing, and/or Reporting demonstrated according to qualification standards? Yes, Evaluation satisfactory.
 If results were unsatisfactory, did this result to a strike? N/A
 If strike 1 or strike 2, results were documented.
 If strike 3, written summary of evaluations were sent to District Material Engineer for disposition.

Comment:
 No comments

This is the actual Qualification Performance Report on an individual technician. From this report, the Project Administrator or QC Manager can look up the sample status in LIMS to get the details needed for coaching technicians.

Maintaining QC Program ... Cont'd.

Use materials that are produced under an approved QC program only.

Example: Using an unapproved producer

76

Expectation Four: Using materials that are produced under an approved QC program only.

This is the case where a Contractor lists a producer who is not qualified to supply the particular type of material needed. Some producers are qualified to supply material and the materials themselves are addressed by other programs such as mix designs for asphalt and concrete. Other producers must list the types of products they wish to supply. For example, a cement supplier lists the cement types and other additive types. Or an aggregate producer lists the types of aggregate such as coarse, fine, etc.

What happens in this scenario is the Contractor has identified a producer who is not able to supply the particular type of material needed.

C:\Documents and Settings\rt820sb\My Documents\html\CEMENTSOURCE_A1.html - Microsoft Internet Explorer

Address C:\Documents and Settings\rt820sb\My Documents\html\CEMENTSOURCE_A1.html 4/16/2004 Florida Department of Transportation

PLANT	COMPANY	CITY	ADDRESS	COUNTRY	CONTACT NAME	COUNTY
Terminal	MATERIAL_DESC		STA ZIP_CODE		TELEPHONE	
CMT01						
CMT01	CEMEX - BROOKSVILLE TYPE I		LEON BLVD. FL 34605	US-98N USA	PAUL OWEN 352-799-2025	08
TM-01						
CMT01	CEMEX - BROOKSV TYPE I		LEON BLVD. FL 34605	US-98N USA	PAUL OWEN 352-799-2025	08
TM-02						
CMT01	CEMEX - BROOKSVILL TYPE I		LEON BLVD. FL 34605	US-98N USA	PAUL OWEN 352-799-2025	08
TM-03						
CMT01	CEMEX - BROOKSVILLE TYPE I	BROOKSVILLE	LEON BLVD. FL 34605	US-98N USA	PAUL OWEN 352-799-2025	08
TM-04						
CMT01	CEMEX - BROOKSVILLE TYPE I	16301 PONCE DE LEON BLVD. BROOKSVILLE	FL 34605	US-98N USA	PAUL OWEN 352-799-2025	08
TM-05						
CMT01	CEMEX - BROOKSVILLE TYPE I	16301 PONCE DE LEON BLVD. BROOKSVILLE	FL 34605	US-98N USA	PAUL OWEN 352-799-2025	08
TM-06						
CMT01	CEMEX - BROOKSVILLE TYPE I	16301 PONCE DE LEON BLVD. BROOKSVILLE	FL 34605	US-98N USA	PAUL OWEN 352-799-2025	08
CMT02						
CMT02	CEMEX - CLINCHFIELD,GEORGIA TYPE I	HIGHWAY 341 SOUTH CLINCHFIELD	GA 31013	USA	ENRIQUE RUIZ 478-987-2121	

Some Producers are accepted only for certain types

This is the cement report. It is not really used on the project level Contractor QC plans, but it shows the types of cement for each location.

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Producers with Accepted QC Program 6/4/2004 Florida Department of Transportation

AGGREGATE

District	Company Name Facility Number	Contact w/ email	Phone Number	Physical Address	Mailing Address	Date
01	ADORESOURCE, LLC 02903	CHRIS OSHING	239-971-0224	4233 MADRISET NAPLES USA	FL 34117	
01	ALCO HAUL ROAD MINE 12991	JOHN LONO	239-966-3329	LET USA	IRRACIE FL 32663	
03	AMERICAN LIMES DOLOMITE INC 02643	CHARLES MORRIS cm1114@amtelinc.com	850-762-8333	USA	FL 32448	
03	AMERICAN LIMES DOLOMITE INC 04544	RANDY MORRIS RM	239-723-7237	ROCK SUNGEE RD USA	FL 32448	
01	AMERICAN ROCK INDUSTRIES INC. 16221	DAVE BLADA NONE	352-279-6112	304 EAST FORT DAD BROOKSVILLE USA	ADER ROAD FL 34401	
	AMRLSAMPLER					
	AMRL					
02	ANDERSON COLUMBIA 3267	STEVE CARR stevec@andersoncolumb.com	352-752-4521	CROSS CITY USA	FL ASPHALT TECHNOLOGIES LAKE CITY USA	FL 32266
03	ANDERSON COLUMBIA CO INC 02360	DENNY DEEB denny@andersoncolumb.com	850-362-2696	2316 HODDINWAY 71 MARINKNA USA	FL 2316 HODDINWAY 71 MARINKNA USA	FL 32448
02	ANDERSON MINING CORPORATION 37112	STEVE CARR stevec@andersoncolumb.com	352-642-7942	P.O. BOX 38 OLD TOWN USA	FL P.O. BOX 38 OLD TOWN USA	FL 32360
02	ANDERSON MINING INC 33003	ROLFE HALL	352-642-7416	USA	FL P.O. BOX 38 OLD TOWN USA	FL 32360
01	AFAC 03017	LINDA SHEPARD lshepard@afac.com	941-469-1879	911 8TH ST. SW. NAPLES USA	FL P.O. BOX 2879 SARASOTA USA	FL 34230
	ARUNDELSAND & GRAVEL CO M0537	DAVID WHERLEY	410-575-6827	508 QUARRY RD HAVRE DE GRACE USA	MD 21078	
	ATLANTIC COAST MATERIALS INC NE529	MARK CLARK markc@acm.com	506-529-1117	140 CHAMPLAIN DR. UNIT 3 SARVIE NEW BRUNSWICK, CANADA	25627/2 SARVIE NEW BRUNSWICK, CANADA	25627/2
06	BAHAMAS ROCK LIMITED	ROBERT RAY	242-362-2246	400 FISHING HOLE RD CANTON	GD MARTIN MARIETTA ADOORBATIB	

Call Producer to find out what aggregate types approved to produce.

The aggregate report does not have the same listing, however. If a Contractor needs to know if an aggregate producer can supply a certain type of aggregate, it is up to the Contractor to call the producer to find out.

When checking Contractor QC plans, this might occur in aggregate or incidental precast. The District Materials Office will verify this information during review. Should a Project Administrator have a question regarding whether or not a particular producer is capable of supplying the correct material, he or she should contact the local District Materials Office.

Maintaining QC Program ... Cont'd.

Correct any deficiencies related to any requirement of the QC program within the amount of time defined in the notice.

Example: Dept. suspends producer or lab

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Expectation Five: Correct any deficiency related to any requirement of the QC program with the amount of time defined in the notice.

Here we say that when the Department has notified the Contractor of a deficiency, he or she must correct it in the time frame specified in the notice. If we said fix it in a week and the deficiency is not addressed in a week, that's grounds for suspension.

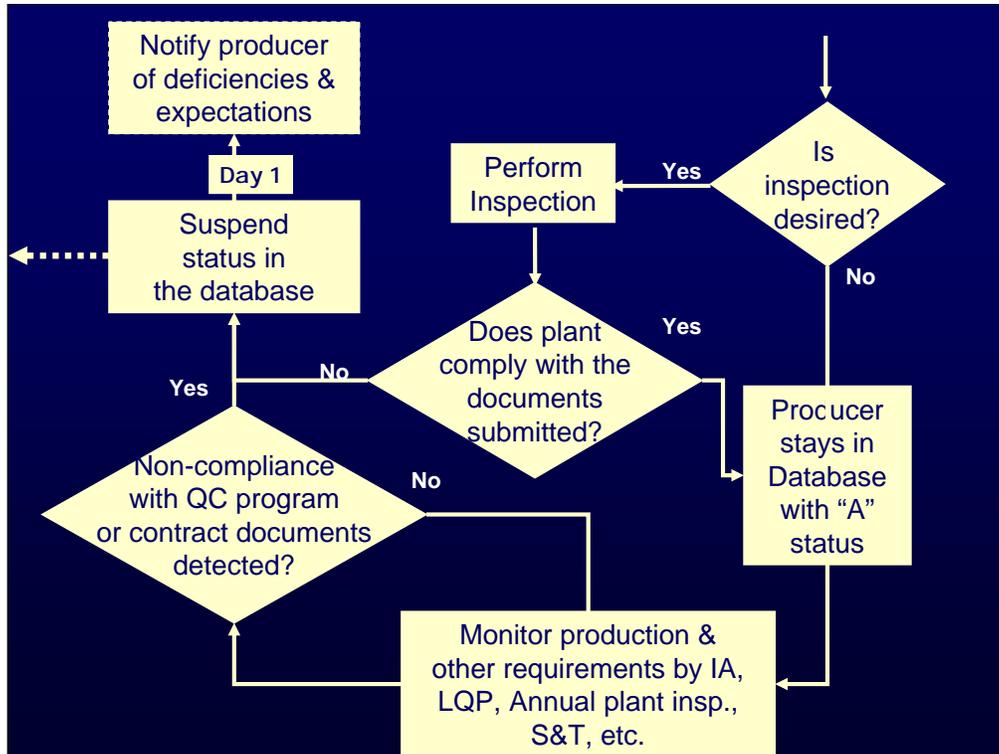
So, how does a producer get suspended?

Accept QC Program. Notify Producer. Change Status to A



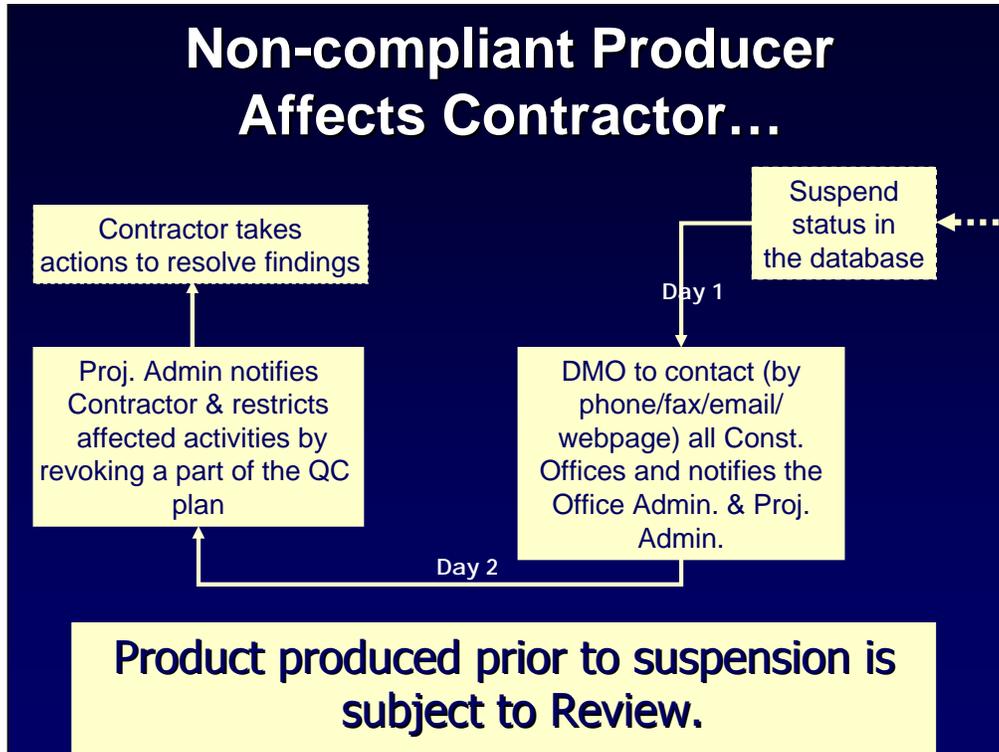
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At this point, the Producer's QC plan has been accepted by the Department. How do they get suspended?



Either through inspection or through monitoring, the District Materials Office detects a QC program non-compliance issue.

The first day, the Producer is suspended in the LIMS database and the producer is notified of what was found and what to do.



Also on the first day, the District Materials Office notifies the State Construction Office who in turn notifies the District Construction Offices who in turn notify the Residencies.

The Project Administrator has until the second day to review the Contractor's QC plan to see if it has to be suspended. If the producer is listed on the Contractor's QC plan and there are no other producers of the same type listed (alternate sources), the Project Administrator must suspend the Contractor's Project QC plan. The plan will remain in suspension until the Contractor finds another producer who is not suspended or the suspended producer is reinstated.

The same situation applies to sole source laboratories.

Any material produced and placed during the period between the producer being suspended and the Project Administrator suspending the Contractor QC plan will have to be reviewed and addressed, if needed.

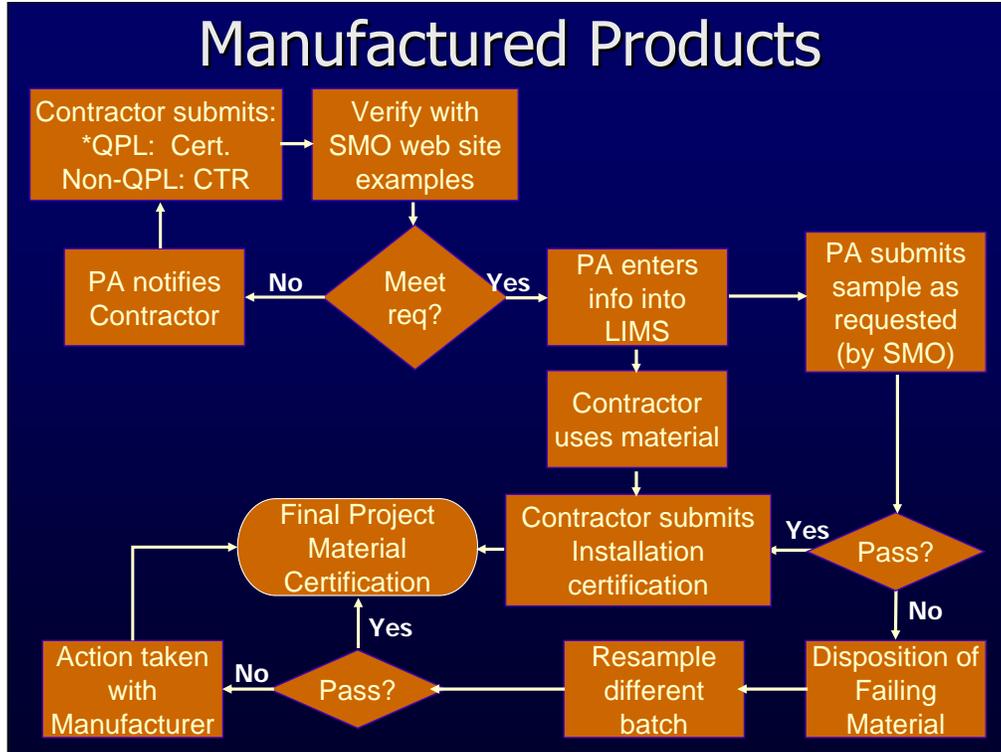
That is it for Contractor QC plan issues. If it does not fit one of those criteria, use some other means of contract administration. If it does, proceed with the QC Plan process as needed.

Manufactured Products Process

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Now let's look at Manufactured Products which are part of the QC program process.

Manufactured Products



Here is the flow of the process. For project level actions there are two main focuses, ensuring that the certification is good and logging the certification into LIMS.

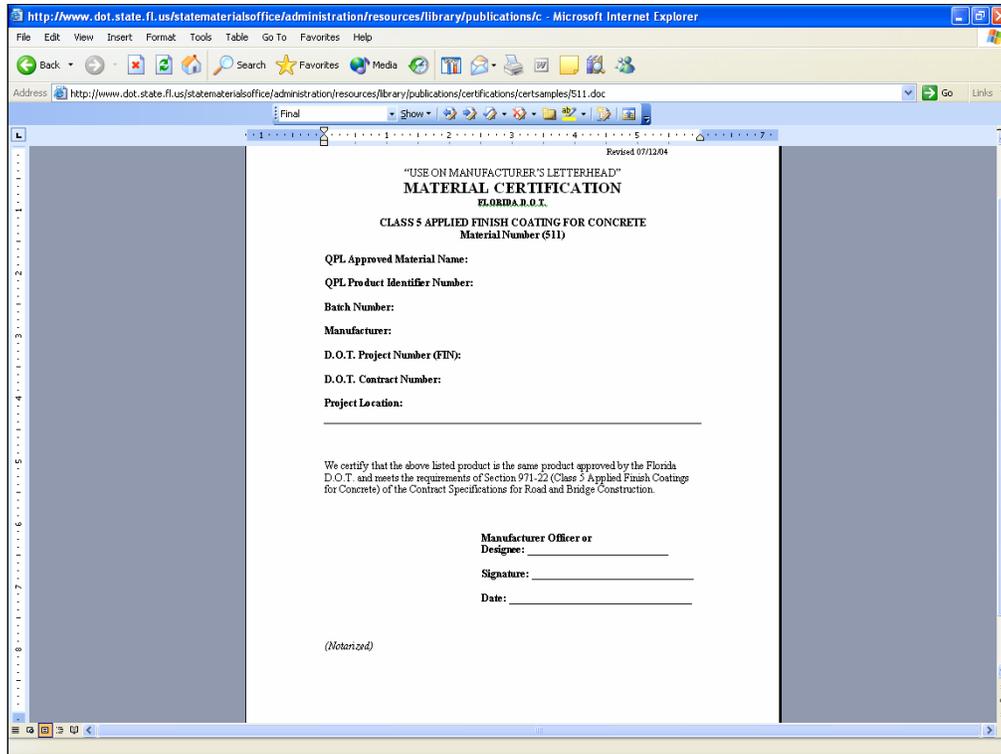
Manufactured Products Web Site

The screenshot shows a web browser window displaying the Florida Department of Transportation's 'Sample Certification Forms' page. The page features a header with the 'my' logo and navigation links. Below the header is a table titled 'Material Certification - Florida DOT (Sorted by Specification Number)'. The table has four columns: Specification #, Material #, Sample Form, and Format. The table lists various materials such as Seal Handrail, Guardrail Assemblies, Fencing Systems, and various types of Epoxy Compounds, each with a corresponding sample form link and format (e.g., DWGDOC).

Specification #	Material #	Sample Form	Format
519	170	Seal Handrail	DWGDOC
536	N/A	Certificate of Compliance, Guardrail System	DWGDOC
536-2	185	Guardrail Assemblies	DWGDOC
536-2	182	Guardrail, Other Blocks, Rubber	DWGDOC
550	230	Fencing Systems	DWGDOC
550	N/A	Certificate of Compliance, Fencing System	DWGDOC
919	851	Ground Tire Rubber	DWGDOC
955-1	885	Burlap	DWGDOC
955-3	208	White Burlap - Polyethylene Sheet	DWGDOC
906	902	Epoxy Compound, Type D	DWGDOC
906	908	Epoxy Compound, Type E	DWGDOC
906	909	Epoxy Compound, Type F	DWGDOC
906	910	Epoxy Compound, Types A and B	DWGDOC
931-2	230	Metal Materials for Joints	DWGDOC
931-2-3	516	Dowel Bars	DWGDOC
932	532	Compression Seal Adhesive	DWGDOC
932-1	542	Preformed Joint Filler Material	DWGDOC
932-1	531	Compression Seal, Elastomeric	DWGDOC
932-1-3	529	Low Modulus Silicone Sealant	DWGDOC
932-2	526	Resinone Pads	DWGDOC
932-2-1	532	Bearing Pads	DWGDOC
970	011, 814	Raised Pavement Markers	DWGDOC
971-1, 971-12	291	Traffic Paint - Two Component	DWGDOC
971-1, 971-14	296	Glass Spheres for Traffic Paint	DWGDOC
971-1, 971-15	002	Galvanizing Compound - Organic Zinc Coating	DWGDOC
971-1, 971-16	020	Two Component Paint Materials, Self-Curing	DWGDOC
971-1, 971-16	020	Inorganic Zinc Coating Systems	DWGDOC
971-1, 971-17	286, 300, 301	Thermoplastic	DWGDOC
971-1, 971-18	342	Perforated Traffic Markings	DWGDOC
971-1, 971-19	329	Fast Dry Traffic Paint - Water Based	DWGDOC
971-22	511	Class 5 Applied Finish Coating for Concrete	DWGDOC
980	038	Commercial Fertilizer, Dry Type	DWGDOC
986-1	005	Calcium Chloride	DWGDOC
990-4	042	Electrical Ballasts	DWGDOC
990-4	042	Luminaires	DWGDOC
993-1	000	Delimitator - Type A	DWGDOC

<http://www.dot.state.fl.us/statematerialsoffice/administration/resources/library/publications/certifications/sampleforms.htm>

To make sure you have a correct certification, visit the SMO Manufactured products web site. Click on the particular example.

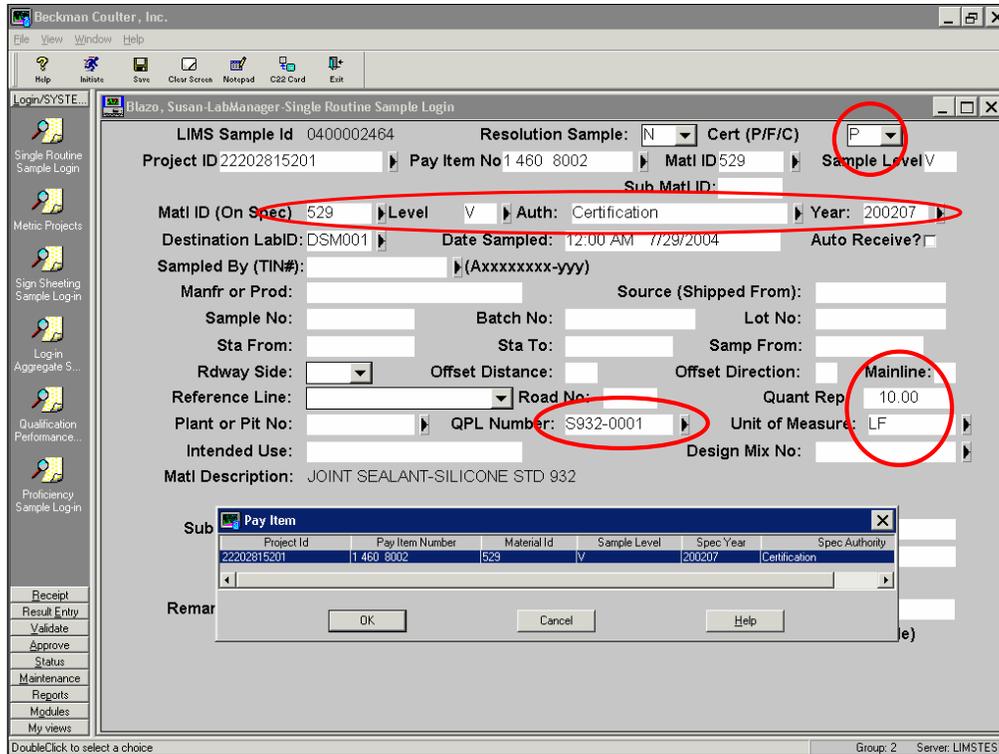


The example should match the certification you are verifying. It must also be for the correct material.

Logging Certifications into LIMS

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Once you have determined that the certification is correct and it is for the right material, you are ready to log it into LIMS.



1. Cert P/F/ or C

P = the certification is acceptable and it matches the material it represents

F = the certification is unacceptable or it doesn't match the material it represents or both.

C = the certification is a Contractor (installation) certification

2. Project ID/Pay Item/ Mat'l ID/ LIMS Spec Combination – find the correct combination of Project ID, Pay Item, Sample Level (V), Spec Year and SPEC AUTHORITY = CERTIFICATION. If CERTIFICATION is not on the drop down list, add it in Mat'l ID on Spec field.

3. Date Sampled

4. Quantity Represented & Unit of Measure

That is all that is needed for logging in a certification. They are Auto Receipt. If the Spec Authority of Certification is used, there are no tests assigned so it skips Result Entry as well and goes straight to the Approval stage where the Project Administrator approves the sample with a code of "RS".

Final Project Material Certification Findings

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Let's look at some screens and reports that will assist in the Final Project Certification process.

Beckman Coulter, Inc. LabManager - Sample Status by Project (STATPJ)

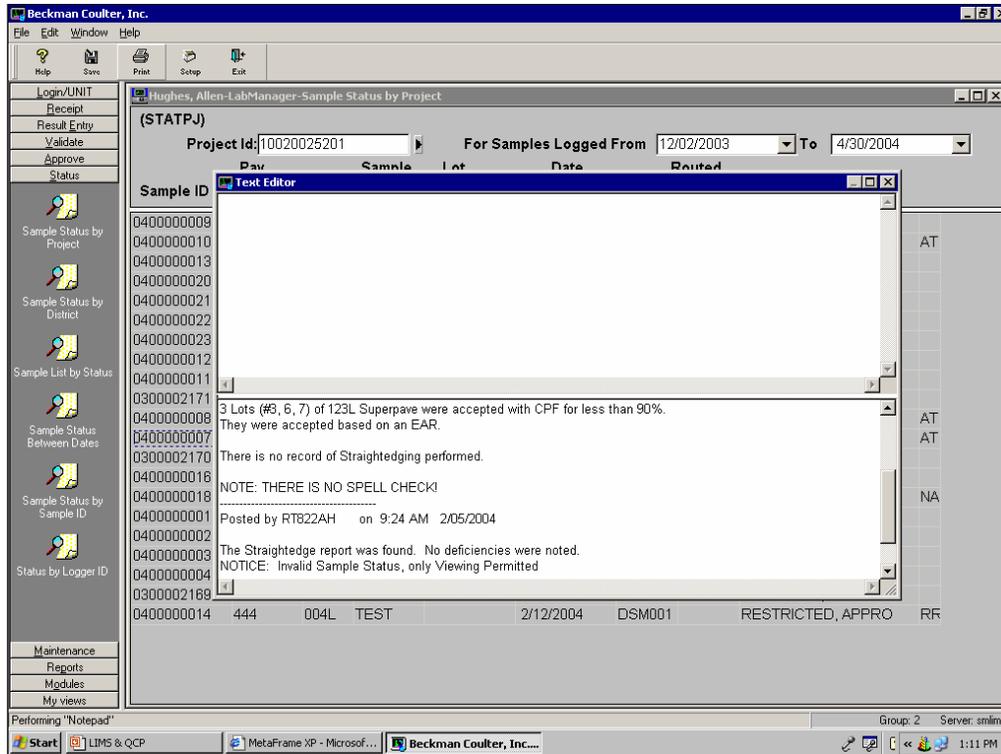
Project ID: 10020025201 For Samples Logged From 12/02/2003 To 4/30/2004

Sample ID	Item	Mat'l	Sample Number	Lot Number	Date Logged	Lab	Routed To	Sample Status
0400000009	101	1	PROCE		2/06/2004	DSM001		ACCEPTED, APPROVE
0400000010	101	1	PROCE		2/09/2004	DSM001		ACCEPTED, APPROVE AT
0400000013	101	1	PROCE		2/10/2004	DSM001		ACCEPTED, APPROVE
0400000020			NGAUG		4/23/2004	DSM001		awaiting TESTING
0400000021			NGAUG		4/23/2004	DSM001		awaiting TESTING
0400000022			NGAUG		4/23/2004	DSM001		awaiting TESTING
0400000023			NGAUG		4/26/2004	DSM001		ACCEPTED, APPROVE
0400000012	0999	2	004L 00010V		2/09/2004	D02004		awaiting TESTING
0400000011	444		004L 00100Q		2/09/2004	D02004		awaiting completi
0300002171	1001	1	123L A000001		12/23/2003	DSM001		ACCEPTED, APPROVE
0400000005	101	1	PROCEALF			DSM001		ACCEPTED, APPROVE AT
0400000007	101	1	PROCEC			DSM001		ACCEPTED, APPROVE AT
0300002170	1001	1	206 C2001		12/18/2003	DSM001		ACCEPTED, APPROVE
0400000016	101	1	PROCECERT-01		2/27/2004	DSM001		ACCEPTED, APPROVE
0400000018	23	4	160L I-002		3/06/2004	DSM001		RESTRICTED, APPRO NA
0400000001	444		004L NEW YEA 555555555		1/09/2004	DSM001		awaiting TESTING
0400000002	1001	1	350 PDLTEST		1/18/2004	DSM001		LOGGED, awaiting
0400000003	1001	1	350 PDLTEST		1/18/2004	DSM001		LOGGED, awaiting
0400000004	1001	1	350 PDLTEST		1/18/2004	DSM001		LOGGED, awaiting
0300002169	1001	1	205 S00001		12/16/2003	DSM001		ACCEPTED, APPROVE
0400000014	444		004L TEST		2/12/2004	DSM001		RESTRICTED, APPRO RF

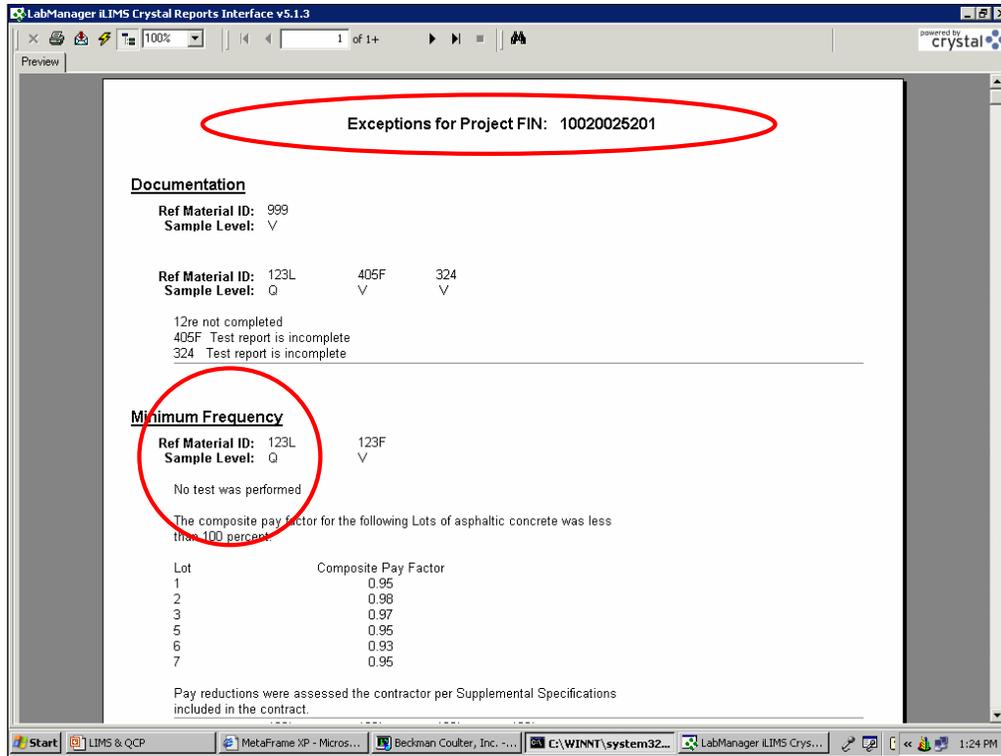
If you have a sample on your project with the Material ID of PROCER, that means someone is reviewing the project for the Final Project Materials Certification.

NOTE: This screen shot is from SYSTEST, the testing environment for LIMS. In most cases, you will only have one sample under the PROCER material id in the Production Environment.

If you want to review the findings, click on the sample to highlight it, then click on Notepad to see the findings.



Here is what a typical PROCER notepad might look like. Notice that issues are being reviewed and addressed “real time”.



This is an example of the Exceptions report from LIMS. If the Certification personnel are proactive, this report can be kept up during the life of the project. In most cases, it won't be available until near the end or after the project is complete.



Other Screens & Reports for Monitoring Progress

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Here are some other screens and reports to help you in monitoring a project.

Deckman Coulter, Inc. - [Blazo, Susan LabManager Sample Status by Project]

(STATPJ)

Project Id: 40460115201 For Samples Logged From 3/30/2004 To 4/29/2004

Sample ID	Item	Mat'l	Sample No.	Lot Lvl	Number	Date Logged	Lab	Routed To	Sample Status	Disp
0400006223	2 160	020L	A001Q	Q	1 - 2	4/29/2004	I05013		VALIDATED, awaiti	
0400006225	2 160	020L	A002Q	Q	3 - 4	4/29/2004	I05013		VALIDATED, awaiti	
0400006227	2 160	020L	A003Q	Q	5 - 6	4/29/2004	I05013		VALIDATED, awaiti	
0400006229	2 120	004L	A006Q	Q	6	4/29/2004	I05013		ACCEPTED, APPROVE	
0400006266	2 120	004L	A006V	V		4/29/2004	I05028		ACCEPTED, APPROVE	
0400003807	1 455 3	160L	P5033V	V		3/31/2004	D07013		VALIDATED, awaiti	
0400006162	1 455 3	160L	P5037V	V		4/29/2004	D07013		ACCEPTED, APPROVE	
0400005176	1 455 3	160L	P5042V	V		4/15/2004	D07013		ACCEPTED, APPROVE	
0400005178	1 455 3	160L	P5047V	V		4/15/2004	D07013		ACCEPTED, APPROVE	
0400004259	1 455 3	160F	P5049Q	Q	49	4/06/2004	P10011		VALIDATED, awaiti	
0400004311	1 455 3	160L	P5049Q	Q	49	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	
0400004260	1 455 3	160F	P5050Q	Q	50	4/06/2004	P10011		VALIDATED, awaiti	
0400004312	1 455 3	160L	P5050Q	Q	50	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	
0400006165	1 455 3	160L	P5051V	V		4/28/2004	D07013		ACCEPTED, APPROVE	
0400004300	1 455 3	160F	P5060Q	Q	60	4/06/2004	P10011		VALIDATED, awaiti	
0400004313	1 455 3	160L	P5060Q	Q	60	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	
0400004301	1 455 3	160F	P5061Q	Q	61	4/06/2004	P10011		VALIDATED, awaiti	
0400004314	1 455 3	160L	P5061Q	Q	61	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	
0400004261	1 455 3	160F	P5062Q	Q	62	4/06/2004	P10011		VALIDATED, awaiti	
0400004315	1 455 3	160L	P5062Q	Q	62	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	
0400004262	1 455 3	160F	P5063Q	Q	63	4/06/2004	P10011		VALIDATED, awaiti	
0400004317	1 455 3	160L	P5063Q	Q	63	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	
0400004264	1 455 3	160F	P5064Q	Q		4/06/2004	P10011		VALIDATED, awaiti	
0400004319	1 455 3	160L	P5064Q	Q	64	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	
0400004265	1 455 3	160F	P5065Q	Q	65	4/06/2004	P10011		VALIDATED, awaiti	
0400004320	1 455 3	160L	P5065Q	Q	65	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	
0400004266	1 455 3	160F	P5066Q	Q	66	4/06/2004	P10011		VALIDATED, awaiti	
0400004321	1 455 3	160L	P5066Q	Q	66	4/06/2004	P10011	P10011	ACCEPTED, APPROVE	

This is an example of the Sample Status by project screen. It can be useful in reviewing Monthly Certifications from the QC manager. The certifications will have a project, a begin and an end date. These 3 pieces of information will generate this screen. If it's on the certification, it should be on this screen. If it's on the screen, it should be on the certification. You can view individual samples and tests directly from this screen by clicking on the sample in question and clicking on the View Tests icon. The test screen will appear. You can't do any data entry, but you can see what has been entered thus far. To get back to this screen, click on the exit icon. Continue until all samples you wish to see have been viewed.

Beckman Coulter, Inc. [Blazo, Susan-LabManager-Result Validation by Sample]

File Windows Help

Help Search Display Calc Remprint SampleDetail Spec Details Test Details Exit

(VIEWTST) Notes?

Sample Id: 0400005176 Lot Number: Status: APPROVED

Project: 40460115201 Pay Item: 1 455 34 6 Material: 160L

Sample Level: V Spec Year: 200207 Sample Number: P5042V

Authority: STD Spec 346 Lab Due Date: 1:41 PM 5/14/2004

Date Sampled: 3/09/2004 Process Due Date: 4/15/2004

Validation Status: Design Mix Number:

Validation Comment:

C39DATAK ASTM C-39 Concrete Cylinder Compressive Strength PV

Results Entered By: RT119MA On 4/15/2004 Test Category: PHYS

Performed By: R14049554-000 On 4/15/2004 Trained?

Component: Total Load	100830	97910	100980	lbF
Diameter1	4.07	4.09	4.11	in
Diameter2	4.05	4.02	4.01	in
Fracture type	SHEAR	SHEAR	SHEAR	
Area	12.95	12.95	12.95	sqin
Length	8.00	8.00	8.00	inl
Age of Specimen	28	28	28	days

Ready, Waiting for input! Group: 2 Server: LMSPROD

Here is what the test screen would look like. When you click on the exit icon, you will be taken back to the Sample Status by Project screen.

LabManager iLIMS Crystal Reports Interface v5.1.3

Print Date: August 18, 2004 11:31:30AM

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Florida Department of Transportation

Earthwork Maximum Density Report

Project ID: 20801025201

Sample ID	Sample Number	Description	Sample Level	Spec Year	Spec Authority	Results	UOM	Intended Use	Lot Number	Rdwy Side	Station From	Station To
Material ID: 0002												
0400011882	00001V	Embankment-Roadway Construction	V	200207	STD Spec 120	11.00	%	EMBANKMENT / P/B		L	N/A	N/A
	00001V	Embankment-Roadway Construction	V	200207	STD Spec 120	108.00	lbs#3	EMBANKMENT / P/B		L	N/A	N/A
0400011884												
	00002V	Embankment-Roadway Construction	V	200207	STD Spec 120	9.00	%	EMBANKMENT / P/B			N/A	N/A
	00002V	Embankment-Roadway Construction	V	200207	STD Spec 120	108.00	lbs#3	EMBANKMENT / P/B			N/A	N/A
0400013391												
	000010	Embankment-Roadway Construction	O	200207	STD Spec 120	12.00	%	PIPE BACKFILL EMBANK		L		
	000010	Embankment-Roadway Construction	O	200207	STD Spec 120	109.00	lbs#3	PIPE BACKFILL EMBANK		L		
0400013397												
	000020	Embankment-Roadway Construction	O	200207	STD Spec 120	11.00	%	PIPE BACKFILL EMBANK				
	000020	Embankment-Roadway Construction	O	200207	STD Spec 120	107.00	lbs#3	PIPE BACKFILL EMBANK				
Material ID: 0006												
0400016739												
	000010	STAB Subgrade & Shoulders	O	200207	STD Spec 160	11.00	%	STABILIZED SUBGRADE			10+00	17+405.58
	000010	STAB Subgrade & Shoulders	O	200207	STD Spec 160	114.00	lbs#3	STABILIZED SUBGRADE			10+00	17+405.58
0400016993												
	00001V	STAB Subgrade & Shoulders	V	200207	STD Spec 160	10.00	%	STABILIZED SUBGRADE			10+00	17+405.58
	00001V	STAB Subgrade & Shoulders	V	200207	STD Spec 160	114.00	lbs#3	STABILIZED SUBGRADE			10+00	17+405.58
Material ID: 4005												
0400017032												
	00001V	Base-Limerock Materials	V	200207	STD Spec 200		%	BASE			10+00	17+405.58
	00001V	Base-Limerock Materials	V	200207	STD Spec 200		lbs#3	BASE			10+00	17+405.58
0400017252												
	00001V	Base-Limerock Materials	V	200207	STD Spec 200	12.00	%	LIMEROCK BASE			10+00	17+405.58
	00001V	Base-Limerock Materials	V	200207	STD Spec 200	116.00	lbs#3	LIMEROCK BASE			10+00	17+405.58
0400017303												
	000010	Base-Limerock Materials	O	200207	STD Spec 200	13.00	%	LIMEROCK BASE			10+00	17+405.58
	000010	Base-Limerock Materials	O	200207	STD Spec 200	116.00	lbs#3	LIMEROCK BASE			10+00	17+405.58

Number of Rows on Report: [18]

This is an example of the Earthwork Maximum Density Report. This report lists all the proctors for a Financial Project Id. It is useful as a print out of the proctors for field personnel, density log book checks, etc.

LabManager iLIMS Crystal Reports Interface v5.1.3

powered by crystal

Florida Department of Transportation

Lot Index Report

Project ID: 1907725201

Page 1 of 1
Print Date: September 01, 2004
10:56 am

Lot No.	Sample No.	Sample ID	Rdwy Side	Station From	Station To	Lift No.	Verified?	Quantity Represented
Material ID: 004L								
	000020Q	0400000806	L	371+00	331+00		Yes	1EA
1	00002Q	0400000591	R	1152+78	1168+44			1EA
1	A0001Q	0400001386	R	100+00	200+00		Yes	
1	A0005	0400001481	R	100+00	150+00			1EA
2	00001Q	0400001675	R	40+25	45+25			1EA
3	00001Q	0400001881	R	40+25	45+25		No	1EA
3	00023Q	0400001608	L	200+00	250+00			1EA
3	A0044Q	0400001001	L	470+00	483+00	NA		1EA
3	A0044V	0400001016	L	470+00	482+00			1EA
4	00001V	0400001691	R	40+25	45+25		No Sample to Compare with	1EA

Number of Rows on Report: [10]

This is the lot index report. It is useful in determining if enough samples have been taken per lot or subplot. Notice that the first samples have no numbers in the lot number field. This is because the data entry personnel did not include that information at the login screen.

LabManager iLMS Crystal Reports Interface v5.1.3

Florida Department of Transportation

Samples with Disposition other than Full Pay per Spec (FS) Report
Project ID: 10020025201

Page 1 of 4
Print Date: July 22, 2004
11:28 am

Sample ID	Sample Level	Spec Year	Spec Authority	Sample Number	Lot Number	Disposition
004L Embankment-Roadway Construction						
040002247	Q	2002	STD Spec 120	A00010		NO PAY PER ENGINEER'S DECISION
040002248	Q	2002	STD Spec 120	A00010		NO PAY PER ENGINEER'S DECISION
040002250	Q	2002	STD Spec 120	A00010		NO PAY PER ENGINEER'S DECISION
040001140	V	2002	STD Spec 120	0000V		NO FURTHER ACTION REQUIRED
040001039	V	2002	Ind: 305	AD04		MATERIAL REMOVED & REPLACED, OR REWORKED.
123L Bit Mix-Type Base, Superpave						
040001392	Q	2002	STD Spec 324			ACTION TAKEN (FOR EXAMPLE: MANUFACTURED PRODUCT V TESTING)
040001395	Q	2002	STD Spec 324			MATERIAL REMOVED & REPLACED, OR REWORKED.
040001405	Q	2002	STD Spec 324	2C000		ACTION TAKEN (FOR EXAMPLE: MANUFACTURED PRODUCT V TESTING)
040001409	Q	2002	STD Spec 324	2C000		FULL PAY PER ENGINEER'S DECISION
040001962	Q	2002	STD Spec 324	2C000		NO PAY PER ENGINEER'S DECISION
040001404	Q	2002	STD Spec 324	2C000		MATERIAL REMOVED & REPLACED, OR REWORKED.
040001636	Q	2002	STD Spec 324	2C000		NO FURTHER ACTION REQUIRED
040001988	V	2002	STD Spec 324			NO PAY PER ENGINEER'S DECISION
040002228	V	2002	STD Spec 324	ALLEN1112	1/1	REDUCED PAY PER ENGINEER'S DECISION
040001174	Q	2002	STD Spec 324	P0100	2	FULL PAY PER ENGINEER'S DECISION
040001310	Q	2002	STD Spec 324	2C000	2, SUB 2	MATERIAL REMOVED & REPLACED, OR REWORKED.
040001300	M	2002	STD Spec 324	2C000	2-2	MATERIAL REMOVED & REPLACED, OR REWORKED.
040001936	Q	2002	STD Spec 324		2-2	ACTION TAKEN (FOR EXAMPLE: MANUFACTURED PRODUCT V TESTING)
040001313	Q	2002	STD Spec 324	2C000	2-2	ACTION TAKEN (FOR EXAMPLE: MANUFACTURED PRODUCT V TESTING)
040001371	Q	2002	STD Spec 324	2C000	2-2	FULL PAY PER ENGINEER'S DECISION
040001362	Q	2002	STD Spec 324	2C000	2-2	FULL PAY PER ENGINEER'S DECISION
040001937	Q	2002	STD Spec 324	2C000	2-2	FULL PAY PER ENGINEER'S DECISION
040001938	Q	2002	STD Spec 324	2C000	2-2	FULL PAY PER ENGINEER'S DECISION

LEGEND:
Q = Quality Control, V = Verification, IV = Independent Verification, R = Resolution

This report shows all the samples that were coded with a disposition code other than "Full Pay per Specification". It is useful in determining if material is being placed that may not meet the acceptance criteria. It is also useful in determining if material may be an exception. Just because the material appears on this report does not mean it's an exception, but it might be so start looking for possible exceptions with this report.

LabManager iLIMS Crystal Reports Interface v5.1.3

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Florida Department of Transportation

Pre-Stress Pay Item Report
Project ID: 25701715201

Page 1 of 1
Print Date: August 17, 2011
4:20:56 PM

Material ID	Lot No.	Sample Label	Sample Number	Description	Spec Year	Spec Authority	Qty. Unit Number	Test #	Order Qty.	Paid Qty.	Sample Qty.	Test Cost	Text Description	Verify?
600001326														
HDL		V	TEST 1	Concrete-Structural	2000H	STD Spec 346	1 480 1201	PASS	1470 LF	LF	25.00	0.38AVSTT	ASTM C39 Average of 3 Cylinders	
HDL		V	TEST 1	Concrete-Structural	2000H	STD Spec 346	1 480 1201	PASS	1470 LF	LF	25.00	0.38AVSTT	ASTM C39 Average of 3 Cylinders	
HDL		V	TEST 1	Concrete-Structural	2000H	STD Spec 346	1 480 1201	PASS	1470 LF	LF	25.00	STATSB C	Sample Status Concrete	
											25.00 LF			
<p>Posted by RTE2000 on 3:45 PM 8/16/2011</p> <p>This is not a test to see if it shows on the report.</p> <p>Posted by RTE2000 on 3:45 PM 8/16/2011</p> <p>gibson@ndb1</p>														
600001327														
HDL		V	TEST 1	Concrete-Structural	2000H	STD Spec 346	1 480 1201	PASS	1470 LF	LF	175.00	0.38AVTA	ASTM C39 Concrete Cylinder Compressive Strength	No Sample to Compare with
HDL		V	TEST 1	Concrete-Structural	2000H	STD Spec 346	1 480 1201	PASS	1470 LF	LF	175.00	0.38CALK	ASTM C39 Concrete Cylinder Compressive Strength	No Sample to Compare with
HDL		V	TEST 1	Concrete-Structural	2000H	STD Spec 346	1 480 1201	PASS	1470 LF	LF	175.00	STATSB C	Sample Status Concrete	No Sample to Compare with
											175.00 LF			
											200.00 LF			

END:
Q = Quality Control, V = Verification, N = Independent Verification, R = Resolution

This report shows you if you have prestressed pay items on your project and if any samples have been logged into LIMS under those pay items.

LabManager II MS Crystal Reports Interface v5.1.3

Florida Department of Transportation

Sample With No Comparison Report
Project ID: 10020025201

Page 1 of 1
Print Date: August 17, 2004
4:11 pm

Material ID	Description	Sample Level	Spec Year	Spec Authority	Sample ID	Sample Number	Lot Number	Disposition
104L	Embankment/Roadway Construction	V	200207	STD Spec 120	0400001691	00001V	4	FULL PAY PER SPECIFICATIONS
122	BIT MIX-RECYCLED	V	200207	STD Spec 334	0400001291	P1001	3	FULL PAY PER SPECIFICATIONS
122	BIT MIX-RECYCLED	V	200207	STD Spec 334	0400001292	P1001	3	FULL PAY PER SPECIFICATIONS
123L	Bit Mix-Type Base, Superpave	Q	200207	STD Spec 334	0400002026			MATERIAL REMOVED & REPLACED, OR REWORKED.
123L	Bit Mix-Type Base, Superpave	Q	200207	STD Spec 334	0400001289	2C0060	2-2	NO PAY PER ENGINEER'S DECISION
123L	Bit Mix-Type Base, Superpave	Q	200207	STD Spec 334	0400001313	2C0060	2-2	ACTION TAKEN (FOR EXAMPLE: MANUFACTURED PRODUCT V TESTING)
123L	Bit Mix-Type Base, Superpave	Q	200207	STD Spec 334	0400001286	P20060	2-2	FULL PAY PER ENGINEER'S DECISION
350	THERMOPLASTIC COMPOUND	V	200207	STD Spec 711	0400001173			FULL PAY PER SPECIFICATIONS

Number of Rows on Report: [8]

LEGEND:
Q = Quality Control, V = Verification, IV = Independent Verification, R = Resolution

This report shows samples that have been coded with an approval code of "RS". That may or may not be a good thing. Non-Contractor Quality Control items, such as thermoplastic are supposed to be coded as "RS" so ignore those. For Q level Contractor Quality Control items, they should not be coded as RS unless the V level was missing. For V level samples coded RS, the Q sample is missing. Either situation will warrant further investigation and is possibly an exception.

LabManager iLIMS Crystal Reports Interface v5.1.3

Florida Department of Transportation
Unverified Quality Control Sample Report
 Project ID: 19564615201

Page 1 of 1
 Print Date : August 18, 2004 3:51:25PM

Sample ID	Sample Number	Material ID	Description	Sample Level	Spec Year	Spec Authority	Lot Number	Sample Qty	Disposition
0400002556	F2000Q	123L	Bit Mixture Base, Superpave	Q	200007	STD Spec 334	2	1000.00	FULL PAY PER ENGINEER'S DECISION
Notes This is a note added at the testing phase. -19/2004									
0400002556	F2007Q	123L	Bit Mixture Base, Superpave	Q	200007	STD Spec 334	2	1000.00	FULL PAY PER ENGINEER'S DECISION
Notes Posted by R T820SB on 9:50 AM 8/19/2004 All tests validated.									
0400002557	F2005Q	123L	Bit Mixture Base, Superpave	Q	200007	STD Spec 334	2	1000.00	REDUCED PAY PER ENGINEERS DECISION
Notes Posted by R T820SB on 9:51 AM 8/19/2004 This is a note added at the approval stage. This lot did not have a sample available for comparison. The material was addressed with an Engineering Analysis Report.									
0400002558	F2009Q	123L	Bit Mixture Base, Superpave	Q	200007	STD Spec 334	2	1000.00	MATERIAL REMOVED & REPLACED, OR REWORKED.
Notes									

Number of Rows on Report : [4]

LESLID :
 Q = Quality Control, V = Verification, IV = Independent Verification, R = Resolution

This report shows all Q level samples that are coded "RE". That means there was a V sample to compare with it, but it did not compare favorably. There should be resolution samples for these samples and possibly an exception.

One note for Material Removed and Replaced or Reworked. There are requirements for both situations that warrant additional sampling and testing. In both cases, make sure the material has been sampled and tested accordingly.

LabManager iLIMS Crystal Reports Interface v5.1.3

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Evaluated Active Technicians
DISTRICT: 02
6/4/2004

SAMPLE ID	SAMPLE NUMBER	TECHNICIAN ID	TEST METHOD	TYPE OF EVALUATION	EVALUATION STATUS	EVALUATOR	DATE EVALUATED
AGGREGATE FIELD TESTING TECHNICIAN							
AASHTO T 21							
040001886	08004	A1045376-000	AASHTO T 21	LABSERVATIONSPUT	REJECTED (F)	RT219RR	3/4/04
040001738	03304	B3679059-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219FL	3/3/04
040002253	10704	B6348375-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219RR	3/10/04
040001514	1-01-04	B6349279-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219DH	2/24/04
040000957		B6377659-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219DH	2/24/04
040000985		D23072872-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219DH	2/24/04
040001822	08004	E2001950-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219FL	3/3/04
040001986	1-04-04	E4309644-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219DH	2/26/04
040001732	30304	J2045376-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219FL	3/3/04
040000754		M2391000-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219DH	2/24/04
040001786	04004	P0072160-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219DH	3/3/04
040002162	01004	R0362175-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219FL	3/6/04
040000988	#1	W0348076-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219DH	3/3/04
040001611	1-05-04	W0372763-000	AASHTO T 21	LABSERVATIONSPUT	ACCEPTED (P)	RT219FL	2/26/04
Total Active Technicians Evaluated per Test Method:							14

1 Rev. maining

This is a report of the active technicians who have already received an evaluation. If you think a technician may need an evaluation, generate this report and see if he or she has been recently evaluated.

LabManager iLIMS Crystal Reports Interface v5.1.3

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6/4/2004 1:41pm

**Florida Department of Transportation
Sampling Status Progress Report**

Contract Number: 123456
 Contractor: TEST
 Managing District: 88
 Section: 99

Project Id: 1002002201

PAY ITEM	DESCRIPTION	QTY. ORDERED	WORK CATEGORY	QTY. PAID TO DATE	UNIT OF MEASURE
1 1881 1	123L 123L 0400001156	1		0	
Spec Year: 200207	Sample Id Date Sample Taken Location Sampled Sampling Status # Failures				
	123L 0400001162	1		0	
	123L 0400001166	1	ROADWAY	0	
	123L 0400001171	1	ROADWAY	0	
	123L 0400001178	1	12345	0	
	123L 0400001179	1	Not Recorded	0	
	123L 0400001183	1	TRUCK	0	
	123L 0400001189	1	TRUCK	0	
	123L 0400001191	1	TRUCK	0	
	123L 0400001192	1	TRUCK	0	
	123L 0400001201	1	TRUCK	0	

State Materials Office
 3007 N.E. 29th Avenue
 Ocala, FL 32609

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This report shows all samples in LIMS that are not yet approved. The goal of this report is to be blank. It can be blank by typing in the wrong contract number, by there never being ANY samples entered into LIMS for that contract or all the samples on that contract have been passed through the LIMS sample life cycle and are approved.

If you receive a blank report, double check the contract number.

LabManager iLIMS Crystal Reports Interface v5.1.3

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6/4/2004 1:44:34PM

**Florida Department of Transportation
Material Testing Status Report**

Contact Number: 123456 Managing District: 88
 Contractor: TIGI Section: 99
 PIN Project: 10020023281

PAY ITEM	MATERIAL ID	EFFC YEAR	TOTAL # SAMPLES LOGGED TO DATE	TOTAL # PASSED	TOTAL # FAILED	TOTAL # SAMPLES REQUIRED
2	004L	200207	0	0	0	
2	004L		0	0	0	See Frequency
1	123L	200207	0	0	0	
1	123L		0	0	0	See Frequency
2	465	200207	0	0	0	
2	465		0	0	0	See Frequency
5	502	200207	0	0	0	
5	508		0	0	0	See Frequency
6	998	200207	0	0	0	
6	998		0	0	0	See Frequency
	F90QCC	2002	0	0	0	
	F90QCC		0	0	0	See Frequency
1 1001 1	123L	200207	428	175	3	

State Materials Office
 5007 N.E. 39th Avenue
 Gainesville, FL 32609

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This report is similar to an open pay item report. Because a pay item has no samples assigned to it may not be a bad thing. If the pay item is not used, there would be no samples on the pay item. Future versions of this report will show a quantity paid to date column. When that column is present, it will be easier to determine if a pay item is missing samples. Also it does show the number of samples taken versus the number passed and failed. Those totals should coincide or some samples have not yet been fully processed.

Questions

- Questions?
- Comments



105

The end.