

# SiteManager Team

Materials and Research Breakout Session

PM Conference - 2012

# Presentation Topics

- Documentation of Samples
- Gradation Designation on Test Templates
- Materials Management Website
- Buy America Changes
- Sampling and Testing Personnel Qualification Program
- New RDL format for LPA Projects

# Documentation of Samples

- Two ways M&R tracks documentation of materials.:
  1. Materials Tracked in SiteManager
    - Listed on the Sampling Checklist
    - Create a Sample Record in SiteManager
      - **\*\*Attach contract bid item to the sample**

AASHTO SiteManager

File Edit Services Window Help

Maintain Sample Information

Basic Sample Data Addtl Sample Data **Contract** Other Tests

Sample 113103410018

Contract ID	Project	Line Item	Item Code	Fed State Prj Nbr	Cont Est Matrl Qty	Represented Qty	Material Unit	Reported Matrl Qty	Satisfy Rep Matrl Qty	Line Item
1472X	12472 000	0005	1030.00	IM-NH-80-9(84	79,714.000	15,000.000	CU YD	79,430.000	0.000	EART

- **Write the Sample Record ID on anything sent to M&R (certifications, shipping reports, samples, etc)**

# Documentation of Samples

2. Materials Not Tracked in SiteManager
  - Refer to Materials Required Document List (MRDL)
    - Complete a DR-12 to accompany anything sent to M&R (Certification of Compliance (COC), Certification of Test (COT), Shipping Reports, etc...)
    - Send documentation to M&R Contact on MRDL
  - Unclear on what's required?
    - Refer to the Plans, Special Provision, Material Sampling Guide or Standard Specs
    - Call
      - M&R Contact listed on the MRDL
      - SiteManager Team
        - Rhonda DeButts:402-479-4760
        - Dave Hall:402-479-4837
        - Devin Townsend: 402-479-4791



# Presentation Topics

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# Gradation Designation on Test Templates

- New Terms
  - Used when recording field gradations in SiteManager
  - Submitting split sample for Gradation Verification

# Gradation Designation on Test Templates

- Template Example

**Crushed Concrete for Foundation Course**  
Field Performed Tests

NDOR M&R  
Mark Lindemann, Geotechnical Engineer

Template ID: SLF005001  
Version: 20120301

Dry Wt of Sampl	Wash Test - Sieve Analysis Total Passing Percentage									Rep Mat Qty (cu yd) Station	Spacer Sieve Gradation Type	
	1 1/2	1 1/4	1	3/4	1/2	3/8	4	10	40			200
1.												
2.												
3.												
4.												
5.												
Average	100			0/85				20/50			0/8	

**Crushed Concrete for Foundation Course**  
Material represented by samples that average 15% or more passing on the No. 200 sieve will be subject to removal.

Gradation Type	
Field Acceptance	Results from field performed gradation tests for acceptance. A minimum of three samples is required for Field Acceptance.
Re-Sample	Results from a new material sample obtained to replace the original sample.
Re-Test	Results from a second test portion, prepared from the same original sample to confirm the initial test results.
Verification	Results of a field performed gradation test for acceptance; a split companion sample has been sent to NDOR Central Laboratory for gradation verification (correlation) testing and aggregate quality testing.

Note: Any sample record containing failing test results will require a description of the corrective action taken. The corrective action shall be documented in the Comments field.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Test Specification: NDR T27



# Gradation Designation on Test Tab Templates

- Field Acceptance
  - Results from field performed gradation tests for acceptance.
- Re-Sample
  - Results from a new material sample obtained to replace the original sample.
- Re-Test
  - Results from a second test portion, prepared from the same original sample to confirm the initial test results.
- Verification
  - Results of a field performed gradation test for acceptance; a split companion sample has been sent to NDOR Central Lab for gradation verification (correlation) testing and aggregate quality testing.

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# Materials Management Website

**Official Nebraska Government Website**

**NDOR**  
Nebraska  
Department of Roads

NDOR Services & Staff ▾  
NDOR Divisions/Districts ▾

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## Materials & Research

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### Mission Statement

We design, research and test highway materials for use in constructing and maintaining a quality highway system that meets the needs of Nebraska.

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<a href="#">Pavement Optimization Program - User Guide</a>	



# Materials Management Website

- General Purpose:
  - Provide users guidance to assist in satisfying NDOR Material Requirements
- Site Contents
  1. General Guidance
  2. SiteManager Instructions
  3. Material Standard Operation Procedures (MSOP's)
    - Procedures/processes specific to types of materials
    - Both Field and Lab processes



# Materials Management Website

- New Additions
  - Concrete Placement MSOP
  - Instructions for entering Concrete Proportion Report and Aggregate Records in SiteManager
  - Asphaltic Concrete MSOP
  - Documenting Buy America Compliance
  - Material Testing/Sampling Qualification Requirements
- Coming Soon
  - PM Material Compliance MSOP
  - Crushed Concrete for Foundation Course MSOP
  - Creating and Authorizing a Sample Record Instructions
  - Concrete Acceptance Based on Maturity Curves MSOP
  - Hot Pour Joint Sealant MSOP



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# Buy America Changes

- Before Dec. 15<sup>th</sup>, 2011
  - Per SSHC 106.07 (No Iron Product)
    - Prime Contractor Certification
      - M&R will accept *before* items have been completed.
    - Producer/Supplier (P/S) Certifications
      - Documented as material containing steel arrive on the project.

\*\*Changes were instituted to meet existing Federal requirements

- After Dec. 15<sup>th</sup>, 2011
  - Language changed to clarify that **both Iron and Steel** products are included in Buy America.
- Feb. 2<sup>nd</sup>, 2012 – Present
  - Prime Contractor Certification
    - **After** all items containing steel or iron have been **completed**

# Buy America Changes

- P/S Certifications
  - Track material requirement in SiteManager
  - Send certifications to M&R contact on MRDL for both types of certs
    - Include Project Information (Project No., CN, ID, etc...)
- Prime Contractor Certification
  - Will **NOT** appear on SiteManager Sampling Checklist
    - Projects let after Feb. 2<sup>nd</sup>, 2012.
  - Still a requirement to obtain the cert and send to M&R

# Buy America Changes

- For more information:
  - Materials Management Website

**Official Nebraska Government Website**

**Materials & Research**  
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**Mission Statement**  
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# Sampling and Testing Personnel Qualification Program

**QUALITY ASSURANCE PROGRAM**

**FOR**

**CONSTRUCTION**

**MATERIALS**

**Materials Sampling Guide, Section 28**

Page 28-A

MSG Section 28 Appendix A:  
Sampling and Testing Personnel Qualification

# Sampling and Testing Personnel Qualification Program

Lab and Field Technician Certifications			
	Concrete	Soils	Asphalt
<sup>1</sup> Lab	<sup>3</sup> ACI PCC Strength Testing (5 yr)	<sup>3</sup> Earthwork Technician Level 2 (5 yr)	<sup>3</sup> Asphalt Concrete Test Tech (5 yr)

**Note<sup>1</sup>:** The lab where the testing is conducted, must appear on the Nebraska Qualified Consultant Lab list maintained on the Materials and Research website:

<http://www.nebraskatransportation.org/mat-n-tests/pdfs-docs/qualconsullabs.pdf>

**Note<sup>3</sup>:** Qualified technicians hired for sampling and testing on federally funded projects or LPA projects on the NHS system must have an Independent Assurance Review (IA) on an annual basis one year after obtaining initial qualification.

# Sampling and Testing Personnel Qualification Program

Lab and Field Technician Certifications			
	Concrete	Soils	Asphalt
Field	<sup>1</sup> ACI PCC Field Test Tech (5 yr)	<sup>3</sup> Earthwork Technician Level 1 (5 yr)	PG Binder/Emulsion Sample Technician
	<sup>3</sup> NDOR PCC Plant Inspector (5 yr)		<sup>2</sup> Asphalt Field Tech 1 (5 yr)
	<sup>2</sup> NDOR PCC Field Inspector (5 yr)		<sup>2</sup> Asphalt Field Tech 2 (5 yr)

**Note<sup>2</sup>:** These inspector qualifications are required for NDOR employees in 2011 and highly recommended for anyone inspecting a state or federal aid project in Nebraska. Effective 2012, these qualifications will be required for all technicians hired for this type of inspection.

# Sampling and Testing

## Personnel Qualification Program

- Now required for all LPA/CE technicians working on LPA Projects.

**Note<sup>2</sup>:** These inspector qualifications are required for NDOR employees in 2011 and highly recommended for anyone inspecting a state or federal aid project in Nebraska. Effective 2012, these qualifications will be required for all technicians hired for this type of inspection.

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# New Formatting for LPA Projects

- Item Number
- 0001
- 0002
- 0003
- 0004
- 0005
- 0006
- 0007
- 0008
- 0009
- 0010
- 0011

## State of Nebraska Department of Roads Required Document List

Legend	
TOS	Test or Sample
CC	Contractor's Certification
COC	Certification of Compliance
COT	Certification of Test
APL	Approved Products List
PMV	Project Manager's Verification
SP	Special Provisions
SG	Sampling Guide
NSS	Nebraska Standard Specification
MC	Manufacturer Certification

may not include all material requirements for this project. Please refer to Sampling Guide for a comprehensive list of the material requirements. This will not reflect any changes made to the project after the project letting.

Group	Description	Quantity	Unit	Acceptance Method	Reference Book	M&R Contract
GROUP 1 GRADING	BILIZATION		1 LS			
	GE TREE REMOVAL		1 EACH			
	NERAL CLEARING AND GRUBBING		1 LS			
	AVATION (ESTABLISHED QUANTITY)	1543	CY	TOS	SG-10	PENAS
	TER		10 MGAL			
	VAGING AND PLACING TOPSOIL		1673 SY			

Description	Quantity	Unit	Acceptance Method	Reference Book	M&R Contract
<b>CLASS 47B-3000 CONCRETE FOR HEADWALL</b>	<b>0.21</b>	<b>CY</b>		SG-16	MASTERS
Class B (47B Fine) Aggregate			TOS	SG-16	MASTERS
Class E (47B Coarse) Aggregate			TOS	SG-16	MASTERS
Portland Cement Blended-IPF, IPN, IPF/S			TOS	SG-16	MASTERS
Portland Cement Concrete			TOS	SG-16	MASTERS
White Pigmented Cure Compound-Field Use			APL-TOS	SG-16	MASTERS

Reinforcing Steel (pretested)			TOS	SG-16	KAREL
<b>METAL FLARED-END SECTION</b>	<b>1</b>	<b>EACH</b>			
SHIPPED SHIPPING REPORT			SG-SECTION 27, MC	NOTE 11 NSS106	KAREL
America Cert-Producer/Supplier					KAREL

# Questions?

