

## Field Lab & Personnel Qualification Checklist

**Project No:** \_\_\_\_\_ **Contract ID** \_\_\_\_\_

**Project Location:** \_\_\_\_\_

**Consultant / Field Tester** \_\_\_\_\_ **Project Engineer** \_\_\_\_\_

**Qualified Laboratory?**      **Yes**      **No**      **General Impression:**

**Current LIMS Access?**      **Yes**      **No**

Region Inspection of Project Field Lab

Region Inspection of Contractor Lab

Region Inspection of Consultant Lab

**GENERAL**

- 6.1 Lab Cleanliness & Housekeeping.....
- 6.2 Equipment Cleanliness & Functionality.....
- 6.3 Calibration Checks & Personnel Qualification, Documents present & complete.....
- 6.4 Scales - Accurate & Level.....
- 6.5 Ovens-Verified as Accurate, Temperatures (140°, 230°, 275°, 300°F).....
- 6.6 Thermometer(s)-Accurate.....
- 6.7 Sieves - Good repair, and checked w/ comparator.....
- 6.8 Current CDOT Materials Forms.....
- 6.8 Forms up-to-date (# 250 & # 379, and all others).....
- 6.9 Equipment & Lab facility supplied by Contractor meet Specifications.....
- 6.10 Aggregate Splitter - Correct # of openings.....
- 6.10 Correct size openings.....
- 6.11 Shaker-sieving adequacy performed.....
- 6.11.1 Holds full set of sieves (10 + catch pan).....
- 6.11.2 **Random Sample Schedule**.....

**Comments:**

- CONCRETE**    Applicable.....
- 6.12    Concrete curing water at correct temperature.....
  - Recording thermometer present and operating.....
- 6.13    Concrete Testing Equipment.....
  - Air Meter Calibrated.....
  - Slump Cone Dimensions are accurate.....
  - Strike off plate for Unit Wts is accurate.....
  - Approved Cylinder/Beam Molds.....
- 6.14    Concrete Compression Machine.....
  - Calibrated for Cylinders/Beams.....
  - Neoprene Pads checked/logged.....
  - Correct Loading Rate.....
  - Calibration records present.....

**Comments:**

- ASPHALT**    Applicable.....
- 6.15    Square Splitting Pan for Asphalt.....
  - Square Sided Scoop for Asphalt.....
- 6.16    Maximum Specific Gravity (RICE) set up.....
  - Manometer free of air.....
  - Pump oil free of water.....
  - Desiccating crystals free of water.....
  - Flasks calibrated and logged.....
  - Vacuum Pump Pressure at  $28 \pm 2$  mm Hg.....
- 6.17    Bulk Specific Gravity Equipment.....
  - Tank at Correct Temperature.....
  - Suspension line of smallest diameter.....

**Comments:**

- NUCLEAR**     Applicable.....
- 6.18    Nuclear Gauge Stored Properly & Secured.....
- Caution Radioactive Materials placard posted correctly.....
- Nuclear Incident Procedures filled out.....
- Daily Gauge Logs filled out.....
- M/D Gauge Certified.....
- Stat & Drift Test performed.....

**Comments:**

- SOILS**            Applicable.....
- 6.19    Soils & Base Equipment.....
- Hammers & Molds within specification.....
- Atterberg equipment within specification.....
- #4 Riddle within specification.....
- Compaction base of sufficient mass (>90 Kg).....

**Comments:**

**Additional Comments:**

**PERSONNEL**

<b>Tester 1 (Name / Title)</b>	<b>Required (Y or N)</b>	<b>Certification</b>	<b>Expiration MM-DD-YY</b>
		CDOT Materials Technician Certification TETP	*No Expiration Date
		ACI Concrete Field Testing Technician Grade I	
		ACI Aggregate Testing Technician – Level 1	
<b>Comments:</b>		ACI Aggregate Testing Technician – Level 2	
		ACI Concrete Laboratory Testing Technician Grade I or ACI Concrete Lab. Testing Tech. Level 1	
		ACI Concrete Laboratory Testing Technician Grade II or ACI Concrete Lab. Testing Tech. Level 2	
		ACI Concrete Strength Testing Technician	
		ACI Aggregate Base Testing Technician	
		WAQTC Embankment & Base Excavation & Embankment – Soils Inspector	
		LabCAT A	
		LabCAT B	
		LabCAT C	
		LabCAT E	

<b>Tester 2 (Name / Title)</b>	<b>Required (Y or N)</b>	<b>Certification</b>	<b>Expiration MM-DD-YY</b>
		CDOT Materials Technician Certification TETP	*No Expiration Date
		ACI Concrete Field Testing Technician Grade I	
		ACI Aggregate Testing Technician – Level 1	
<b>Comment:</b>		ACI Aggregate Testing Technician – Level 2	
		ACI Concrete Laboratory Testing Technician Grade I or ACI Concrete Lab. Testing Tech. Level 1	
		ACI Concrete Laboratory Testing Technician Grade II or ACI Concrete Lab. Testing Tech. Level 2	
		ACI Concrete Strength Testing Technician	
		ACI Aggregate Base Testing Technician	
		WAQTC Embankment & Base Excavation & Embankment – Soils Inspector	
		LabCAT A	
		LabCAT B	
		LabCAT C	
		LabCAT E	

**PERSONNEL**

<b>Tester 3 (Name / Title)</b>	<b>Required (Y or N)</b>	<b>Certification</b>	<b>Expiration MM-DD-YY</b>
		CDOT Materials Technician Certification TETP	*No Expiration Date
		ACI Concrete Field Testing Technician Grade I	
		ACI Aggregate Testing Technician – Level 1	
<b>Comments:</b>		ACI Aggregate Testing Technician – Level 2	
		ACI Concrete Laboratory Testing Technician Grade I or ACI Concrete Lab. Testing Tech. Level 1	
		ACI Concrete Laboratory Testing Technician Grade II or ACI Concrete Lab. Testing Tech. Level 2	
		ACI Concrete Strength Testing Technician	
		ACI Aggregate Base Testing Technician	
		WAQTC Embankment & Base Excavation & Embankment – Soils Inspector	
		LabCAT A	
		LabCAT B	
		LabCAT C	
		LabCAT E	

<b>Tester 4 (Name / Title)</b>	<b>Required (Y or N)</b>	<b>Certification</b>	<b>Expiration MM-DD-YY</b>
		CDOT Materials Technician Certification TETP	*No Expiration Date
		ACI Concrete Field Testing Technician Grade I	
		ACI Aggregate Testing Technician – Level 1	
<b>Comment:</b>		ACI Aggregate Testing Technician – Level 2	
		ACI Concrete Laboratory Testing Technician Grade I or ACI Concrete Lab. Testing Tech. Level 1	
		ACI Concrete Laboratory Testing Technician Grade II or ACI Concrete Lab. Testing Tech. Level 2	
		ACI Concrete Strength Testing Technician	
		ACI Aggregate Base Testing Technician	
		WAQTC Embankment & Base Excavation & Embankment – Soils Inspector	
		LabCAT A	
		LabCAT B	
		LabCAT C	
		LabCAT E	

**PERSONNEL**

<b>Tester 5 (Name / Title)</b>	<b>Required (Y or N)</b>	<b>Certification</b>	<b>Expiration MM-DD-YY</b>
		CDOT Materials Technician Certification TETP	*No Expiration Date
		ACI Concrete Field Testing Technician Grade I	
		ACI Aggregate Testing Technician – Level 1	
<b>Comments:</b>		ACI Aggregate Testing Technician – Level 2	
		ACI Concrete Laboratory Testing Technician Grade I or ACI Concrete Lab. Testing Tech. Level 1	
		ACI Concrete Laboratory Testing Technician Grade II or ACI Concrete Lab. Testing Tech. Level 2	
		ACI Concrete Strength Testing Technician	
		ACI Aggregate Base Testing Technician	
		WAQTC Embankment & Base Excavation & Embankment – Soils Inspector	
		LabCAT A	
		LabCAT B	
		LabCAT C	
		LabCAT E	

<b>Tester 6 (Name / Title)</b>	<b>Required (Y or N)</b>	<b>Certification</b>	<b>Expiration MM-DD-YY</b>
		CDOT Materials Technician Certification TETP	*No Expiration Date
		ACI Concrete Field Testing Technician Grade I	
		ACI Aggregate Testing Technician – Level 1	
<b>Comment:</b>		ACI Aggregate Testing Technician – Level 2	
		ACI Concrete Laboratory Testing Technician Grade I or ACI Concrete Lab. Testing Tech. Level 1	
		ACI Concrete Laboratory Testing Technician Grade II or ACI Concrete Lab. Testing Tech. Level 2	
		ACI Concrete Strength Testing Technician	
		ACI Aggregate Base Testing Technician	
		WAQTC Embankment & Base Excavation & Embankment – Soils Inspector	
		LabCAT A	
		LabCAT B	
		LabCAT C	
		LabCAT E	

Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_ Region Materials Lab: \_\_\_\_\_  
(print name)

Inspected by \_\_\_\_\_  
(Signature)

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Project Engineer (print name)

**Distribution:**

- Region Materials Engineer- Original**
- Resident Engineer**
- Project Engineer**
- Field Lab Tester**