S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - OCEAN GATEWAY TERMINAL - MATERIALS TESTING
Project Number: 05-0134

Client: REED & REED, INC.
Client Contract Number:

General Contractor:
Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 7/12/2006 **Time Cast:** 3:40 **Date Received:** 7/13/2006

Placement Location: RECEIVING BUILDING PADS - SE CORNER

Placement Method: CHUTE
Cylinders Made By: KLG
Placement Vol. (yd³): 18
Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (ºF) **Maximum (ºF)**

DELIVERY INFORMATION

Admixtures: POLYHEED 1020

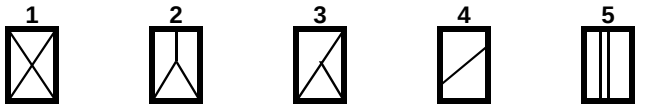
TEST RESULTS

Slump (in) (C-143): **Slump WR:** 5.5
Air Content (%) (C-231): **Air WR:** 6.2
Air Temp (ºF):
Conc. Temp (ºF) (C-1064): 83

Load Number: 3
Mixer Number: 101
Ticket Number: 105659
Cubic Yards: 9
Design (psi): **5075**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	**Age (days)**	Fracture Type	Load (kips)	**Strength (psi)**
561-14A		6.00	28.27	7/19/2006	Lab	**7**	4	136.0	**4810**
561-14B		6.00	28.27	8/9/2006	Lab	**28**	4	157.5	**5570**
561-14C		6.00	28.27	8/9/2006	Lab	**28**	4	153.0	**5410**
561-14D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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