GENERAL REQUIREMENTS HYDRANT FLOW TESTS - UPDATED



2 Center Plaza, Suite 430 Boston, MA 02108-1928 T: 617-338-0063 F: 617-338-6472

www.nitscheng.com

HYDRANT FLOW TEST SUMMARY SHEET

Project 13872 Date: 26-Jul-22 Time: 9:00 PM Test B) NOB, BSR

Civil Engineering

Land Surveying

Client: DRA Project: NEMT Location: School Parking Lot



Transportation Engineering

Sustainable Site Consulting

GIS

Planning



2 Center Plaza, Suite 430 Boston, MA 02108-1928 T: 617-338-0063 F: 617-338-6472

www.nitscheng.com

HYDRANT FLOW TEST SUMMARY SHEET

Project 13872 Date: 26-Jul-22 Time: 9:30 PM Test By NOB, BSR Client: DRA Project: NEMT Location: Hemlock Road and at guard house



Flow Test Summary								
Observation Hydrant	Flow Hydrant:							
Static: 85 psi	Pitot (P):	48	psi					
Residual: 76 psi	Diameter (d):	2.5	inches					
(psi = pounds per square inch)	Hyd. Coefficient (Ch):	0.7						

Calculated Flow (Q = hydrant flow in gallons per minute - gpm)						
Q=29.83(Ch)(d)^2(P)^1/2	Q =	904.2 gpm				

Flow (Q20) at 20 psi								
Q20 = Q(PD20)^0.54/(PD1)^0.54					Q20 =	2629.9 gpm		
PD20 = Static - 20 psi = 85 -	20	=	65	psi				
PD1 = Static - Observed = 85 -	76	=	9	psi				

Comments Hydrants were operated by Matt of the Wakefield Water Department.