

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that EASTERN FIRE PROTECTION  
of PO Box 1390, Auburn, Maine 04211

For installation at 162 CANCO RD  
CMP

Job ID: 2011-11-2783-FAFS

CBL: 148-A-006-001

has permission to extend sprinkler system into truck bay addition  
provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of  
the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of  
the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured  
before this building or part thereof is lathed or otherwise  
closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner  
before this building or part thereof is occupied. If a  
certificate of occupancy is required, it must be

**Fire Prevention Officer**

**Code Enforcement Officer / Plan Reviewer**

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY**

**PENALTY FOR REMOVING THIS CARD**



# PORTLAND MAINE

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Director of Planning and Urban Development  
Penny St. Louis

**Job ID: 2011-11-2783-FAFS**  
**extend sprinkler system into truck**  
**bay addition**

**For installation at:**  
**162 CANCO RD**  
**CMP**

**CBL: 148- A-006-001**

## **Conditions of Approval:**

### **Fire**

The sprinkler system shall be installed in accordance with NFPA 13.

A separate sprinkler permit is required from the State Fire Marshal's Office.

Sprinkler supervision shall be provided in accordance with NFPA 101, *Life Safety Code*, and NFPA 72, *National Fire Alarm and Signaling Code*.

Sprinkler protection shall be maintained. Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.

The Fire Department will require Knox locking caps on all Fire Department Connections on the exterior of the building.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

A Knox Box is required.

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No: 2011-11-2783-FAFS	Date Applied: 11/16/2011	CBL: 148- A-006-001	
Location of Construction: 162 CANCO RD	Owner Name: CENTRAL MAINE POWER	Owner Address: 83 EDISON DR AUGUSTA, ME 04336	Phone:
Business Name:	Contractor Name: Eastern Fire Protection Co.,Inc,	Contractor Address: P.O Box 1390 AUBURN MAINE 04211	Phone: (207) 942-8014
Lessee/Buyer's Name:	Phone:	Permit Type: FIRE ALARM	Zone: I-M
Past Use:  Utility Company	Proposed Use:  Same: Utility Company – to install fire suppression system by truck dock	Cost of Work: \$5,000.00	CEO District:
		Fire Dept:  <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A Signature: <i>Bjornleaf</i> (58)	Inspection: Use Group: Type:  Signature:
Proposed Project Description: install water based fire suppression system		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Lannie		<b>Zoning Approval</b>	

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan  <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>11/29/11</i>	<input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied  Date:	<input checked="" type="checkbox"/> Not in Dist or Landmark <input type="checkbox"/> Does not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied  Date: <i>[Signature]</i>

**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



# Water-Based Fire Suppression System Permit

If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

I-M

Installation address: 162 CANCO RD. PORTLAND CBL: 148-A 6-

Exact location: (within structure) CMP TRUCK DOCK

Type of occupancy(s) (NFPA & ICC): NFPA 13

Building owner: CMP

Managing Supervisor (RMS): WILL FLYNT License No: 386

Supervisor phone: 784-1507 E-mail: FLYNTWA@TEAMEASTERN

Installing contractor: EASTERN FIRE PROTECTION License No: 259

Contractor phone: 784-1507 E-mail: \_\_\_\_\_

The suppression work to be done will be: New:  Renovation:  Addition to existing system:

This is an amendment to an existing permit: Yes:  NO:  Permit no: \_\_\_\_\_

NFPA Standard this system is designed to: 13 Edition: 2010

\*Non-NFPA systems are not approved for use within the City of Portland.

Download a new copy of this document from [www.portlandmaine.gov/fire](http://www.portlandmaine.gov/fire) for every submittal. Attach all working documents and complete approved submittals as may be required by the State Fire Marshal's Office on electronic PDF's in addition to full sized plans.

Contractor shall verify location and type of all FDCs shall be approved in writing by the Fire Prevention Bureau.

<b>COST OF WORK:</b> <u>\$5,000.00</u>
<b>PERMIT FEE:</b> <u>\$70.00</u>
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED  
NOV 16 2011  
Dept. of Building Inspections  
City of Portland Maine

11-28-11

Submit all information to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire protection system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with NFPA and the Fire Department Technical Standard(s).

Applicant signature: Robert Peters Date: 11/11/11



**EASTERN FIRE PROTECTION**

P.O. Box 1390  
Kittyhawk Ave.  
Auburn, ME 04210

PH # (207) 784-1507  
FAX # (207) 782-0566

**LETTER OF TRANSMITTAL**

DATE	11/11/11	JOB NO.	48648
ATTENTION			
RE:	CMP Truck Dock		

TO Building Inspection Department  
389 Congress St. R.M. 315  
Portland, ME 04101

**WE ARE SENDING YOU**  Attached  Under separate cover via \_\_\_\_\_ the following items:

- Shop drawings
- Descriptive data
- Hydraulic calculations
- Copy of letter
- Literature
- \_\_\_\_\_

QUANTITY	DRAWING NO.	DATE	DESCRIPTION	STATUS
3	1 of 1	11/11/11	Shop Drawings	CE
3	1 of 2	10/12/54	reference drawings	CE
3	2 of 2	10/12/54	reference drawings	CE
1	—	11/11/11	Hydro calc sheets	CE

Status code

- A. Approved
- B. Approved as noted
- C. Submitted for approval
- D. Corrected & resubmitted
- E. For your files
- F. Refer to remarks

Please return \_\_\_\_\_ copies each indicating your approval and/or comments.

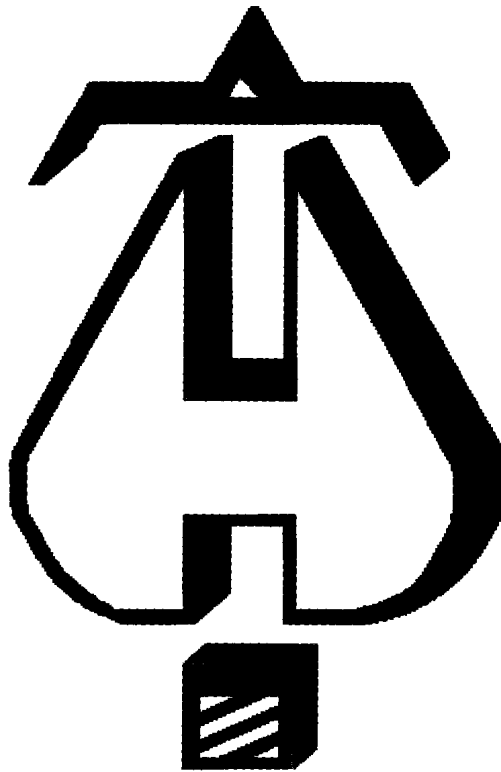
**REMARKS** \_\_\_\_\_  
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**RECEIVED**  
NOV 16 2011  
Dept. of Building Inspections  
City of Portland Maine

**COPY TO** File

**SIGNED** \_\_\_\_\_

If enclosures are not as noted, kindly notify us at once



... Fire Protection by Computer Design

EASTERN FIRE PROTECTION  
170 KITTY HAWK AVE  
AUBURN, ME 04210  
207-784-1507

RECEIVED

MAY 16 1987

DOE  
Operations

Job Name : CMP TRUCK DOCK  
Drawing : 10F1  
Location : 162 CANCO RD. PORTLAND, ME  
Remote Area : 1  
Contract : 48646  
Data File : HYDRO CALCS.WXF

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**HYDRAULIC CALCULATIONS**  
*for*

**Project name:** CMP TRUCK DOCK  
**Location:** 162 CANCO RD. PORTLAND, ME  
**Drawing no:** 1OF1  
**Date:** 11/11/11

**Design**

**Remote area number:** 1  
**Remote area location:** LOADING DOCK EXTENSION  
**Occupancy classification:** ORDINARY HAZARD 1  
**Density:** .15 - Gpm/SqFt  
**Area of application:** 7 HEADS - SqFt  
**Coverage per sprinkler:** 65 - SqFt  
**Type of sprinklers calculated:** TY 3151 K5.6 UPRIGHT  
**No. of sprinklers calculated:** 7  
**In-rack demand:** 0 - GPM  
**Hose streams:** 250 - GPM  
**Total water required (Including hose streams):** 373.56 - GPM @ 38.36 - Psi  
**Type of system:** DRY  
**Volume of dry or preaction system:** 0 - Gal

**Water supply information**

**Date:** 9/25/98  
**Location:** 50'-0" FROM BUILDING  
**Source:** PORTLAND WATER DISTRICT

**Name of contractor:** EASTERN FIRE PROTECTION  
**Address:** 170 KITTYHAWK AVE. AUBURN, ME  
**Phone number:** 784-1507  
**Name of designer:** RJP  
**Authority having jurisdiction:** SFM  
**Notes: (Include peaking information or gridded systems here.)**  
REMOTE AREA PER NFPA 13, 2010 ED. SECTION 11.2.3.4.2

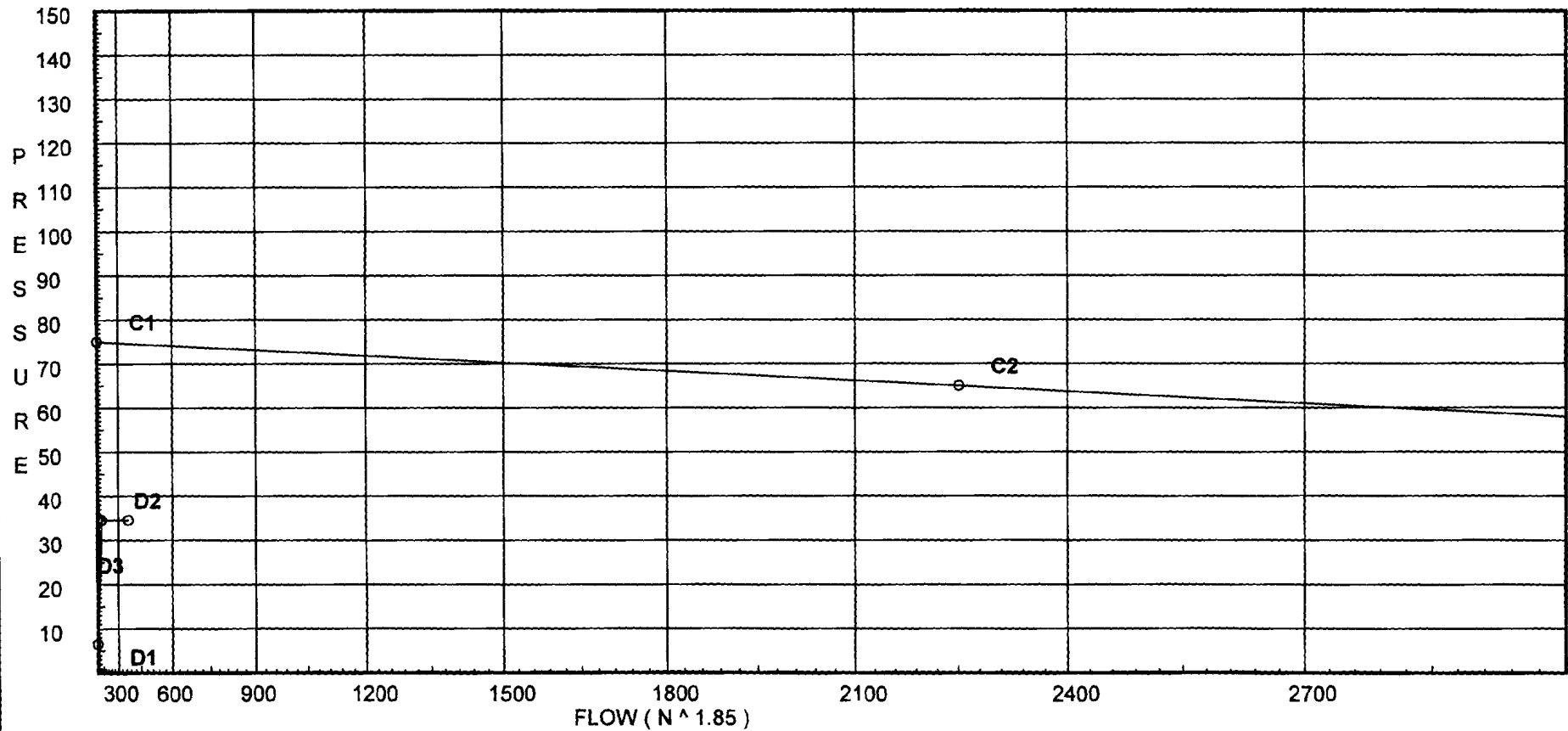
# Water Supply Curve (C)

EASTERN FIRE PROTECTION  
CMP TRUCK DOCK

Page 2  
Date

City Water Supply:  
C1 - Static Pressure : 75  
C2 - Residual Pressure: 65  
C2 - Residual Flow : 2251

Demand:  
D1 - Elevation : 6.496  
D2 - System Flow : 123.562  
D2 - System Pressure : 34.515  
Hose ( Demand ) : 250  
D3 - System Demand : 373.562  
Safety Margin : 40.125





## Fittings Used Summary

EASTERN FIRE PROTECTION  
CMP TRUCK DOCK

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Date

Fitting Legend		½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24	
Abbrev.	Name																					
D	Dry Rel D										28		47									
E	NFPA 13 90° Standard Elbow	1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61	
F	NFPA 13 45° Elbow	1	1	1	1	2	2	3	3	3	4	5	7	9	11	13	17	19	21	24	28	
G	NFPA 13 Gate Valve	0	0	0	0	0	1	1	1	1	2	2	3	4	5	6	7	8	10	11	13	
I	90° Grvd-Vic Elbow #10	0	0	2	3	4	3.5	6	5	8	7	8.5	10	13	17	20	23	25	33	36	40	
J	90° Tee-Branch Grv Vic #20	0	0	4.5	6	8	8.5	10.8	13	17	16	21	25	33	41	50	65	78	88	98	120	
S	NFPA 13 Swing Check Valve	4	5	5	7	9	11	14	16	19	22	27	32	45	55	65	76	87	98	109	130	
T	NFPA 13 90° Flow thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121	

## Units Summary

Diameter Units	Inches
Length Units	Feet
Flow Units	US Gallons per Minute
Pressure Units	Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with \*. The fittings marked with a \* show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a \* will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

**SUPPLY ANALYSIS**

<i>Node at Source</i>	<i>Static Pressure</i>	<i>Residual Pressure</i>	<i>Flow</i>	<i>Available Pressure</i>	<i>Total Demand</i>	<i>Required Pressure</i>
TEST	75.0	65	2251.0	74.639	373.56	34.515

**NODE ANALYSIS**

<i>Node Tag</i>	<i>Elevation</i>	<i>Node Type</i>	<i>Pressure at Node</i>	<i>Discharge at Node</i>	<i>Notes</i>
D1	0.0	5.6	7.0	14.82	
1	117.0	5.42	7.48	14.82	K=K @ L1
2	117.0	5.42	7.61	14.95	K=K @ L1
3	117.0	5.42	8.11	15.43	K=K @ L1
4	117.0	5.42	9.19	16.42	K=K @ L1
5	117.0	5.42	11.09	18.04	K=K @ L1
6	117.0	5.42	14.16	20.39	K=K @ L1
7	117.0	5.42	18.83	23.51	K=K @ L1
A	117.0		24.09		
B	117.0		27.27		
C	117.0		27.5		
D	117.0		27.6		
E	117.0		27.66		
DPV	90.0		39.57		
HDR	89.0		40.11		
BASE	89.0		40.13		
TEST	102.0		34.51	250.0	

EASTERN FIRE PROTECTION  
CMP TRUCK DOCK

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Eqv.	Ln.	Pipe Ftng's Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
D1 to L1	0 0	5.60	14.82	1	1T	3.568 0.0	1.000 3.568	100	7.000 0.0			
			14.82	1.049		0.0	4.568	0.1046	0.478	Vel =	5.50	
L1			0.0 14.82						7.478	K Factor =	5.42	
1 to 2	117 117	5.42	14.82	1.5		0.0 0.0	13.000 0.0	100	7.478 0.0	K = K @	L1	
2 to 3	117 117	5.42	14.95	1.5		0.0 0.0	13.000 0.0	100	7.615 0.0	K = K @	L1	
3 to 4	117 117	5.42	29.77	1.682		0.0 0.0	13.000 0.0	0.0382	0.496	Vel =	4.30	
4 to 5	117 117	5.42	15.43	1.5		0.0 0.0	13.000 0.0	100	8.111 0.0	K = K @	L1	
5 to 6	117 117	5.42	45.2	1.682		0.0 0.0	13.000 0.0	0.0827	1.075	Vel =	6.53	
6 to 7	117 117	5.42	16.42	1.5		0.0 0.0	13.000 0.0	100	9.186 0.0	K = K @	L1	
7 to A	117 117	5.42	61.62	1.682		0.0 0.0	13.000 0.0	0.1466	1.906	Vel =	8.90	
A to B	117 117	5.42	18.04	1.5		0.0 0.0	13.000 0.0	100	11.092 0.0	K = K @	L1	
B to C	117 117	5.42	79.66	1.682		0.0 0.0	13.000 0.0	0.2359	3.067	Vel =	11.50	
C to D	117 117	5.42	20.39	1.5		0.0 0.0	13.000 0.0	100	14.159 0.0	K = K @	L1	
D to E	117 117	5.42	100.05	1.682		0.0 0.0	13.000 0.0	0.3595	4.674	Vel =	14.45	
E to DPV	117 90	5.42	23.51	1.5	1T	7.065 0.0	2.830 7.066	100	18.833 0.0	K = K @	L1	
DPV to HDR	90 89		123.56	1.682		0.0	9.896	0.5313	5.258	Vel =	17.84	
HDR to BASE	89 89		0.0	2.5	2I 1J	11.758 10.582	30.900 22.339	100	24.091 0.0			
			123.56	2.635		0.0	53.239	0.0597	3.178	Vel =	7.27	
			0.0	4	1E 1T	7.137 14.274	9.290 21.411	100	27.269 0.0			
			123.56	4.026		0.0	30.701	0.0076	0.232	Vel =	3.11	
			0.0	5	2T	35.685 0.0	2.880 35.685	100	27.501 0.0			
			123.56	5.047		0.0	38.565	0.0025	0.097	Vel =	1.98	
			0.0	5	1T	17.842 0.0	8.420 17.842	100	27.598 0.0			
			123.56	5.047		0.0	26.262	0.0026	0.067	Vel =	1.98	
			0.0	6	3E 4F	29.975 19.984	160.000 49.959	100	27.665 11.694			
			123.56	6.065		0.0	209.959	0.0010	0.216	Vel =	1.37	
			0.0	6	2E 1T	28.0 30.0	4.000 140.000	120	39.575 0.433			
			123.56	6.065	1G 1S 1D	3.0 32.0 47.0	144.000	0.0007	0.106	Vel =	1.37	
			0.0	8	2E	36.0 0.0	30.000 36.000	120	40.114 0.0			
			123.56	7.981		0.0	66.000	0.0002	0.012	Vel =	0.79	

EASTERN FIRE PROTECTION  
CMP TRUCK DOCK

Node1	Elev1	K	Qa	Nom	Fitting or	Pipe	CFact	Pt			
to						Ftng's		Pe	*****	Notes	*****
Node2	Elev2	Fact	Qt	Act	Eqv.	Ln.	Total	Pf/Ft	Pf		
BASE	89		0.0	8	1G	3.395	50.000	100	40.126		
to					1T	29.704	33.099		-5.630		
TEST	102		123.56	8.27		0.0	83.099	0.0002	0.019	Vel =	0.74
			250.00							Qa =	250.00
TEST			373.56						34.515	K Factor =	63.59