May 18, 2010

Mr. Jeff Cook
Nicor Inc.
1571 Chablis Road
Healdsburg, CA 95448
USA

IPTL # P20100890

Dear Mr. Cook:

Enclosed you will find results of the testing you requested.

If you have any questions regarding the data, please do not hesitate to contact me.

Sincerely,

James A. Koehler
Quality Manager

JAK/jd

Enclosures

50 Pearl Street, Pittsfield, MA 01201
Phone: (413) 499-0983 Fax: 499-2339
http://www.ptli.com

Testing	: Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
Test Method	: ASTM G 154 - 06
Project Number	: P20100890
Customer	: Nicor Inc.
Attention	: Jeff Cook
Operator	: Frank Foy
Date	: May 14, 2010

ACCREDITED
Cert. No. 0619.01

Instrument	: Q-Panel Model QUV/se with Solar Eye UV Irradiance Controller
UV Source Lamps	: Q-Panel UVB-313
Cycle Used	: 4 hr UV uninsulated black panel temp at 60 ± 3°C, 4 hr condensation at 50 ±3°C
Irradiance	: 0.71 W/m^2 at 313 nm

A Solar Eye precision light control system option on the equipment monitors the UV intensity via four sensors at the sample plane to maintain the correct irradiance automatically. This is performed by a four channel feedback loop system that compensates for any variability in irradiance level by adjusting the power to the lamps.

Material ID	: Gray Water Cover
Specimen Type	: 6 ASTM Tensile bars 6 ASTM Flex bars 3 specimens for color measurement
Sample Preparation	: Tested as received
Sample Mounting	: Standard holders

Exposure Time (hrs)	Lamp(s) Were Changed During Exposure Period	Sample Repositioning Schedule
500	**No**	**None**

Lamp Age at Test Start (hrs)	Lamp Age at Test End (hrs)	Type of Thermometer
0	**250**	**Black Uninsulated Panel**

Results of any property tests are included as additional reports

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Testing	: Standard Practice for Computing the Colors of Objects by using the CIE System
Test Method	: ASTM E1347-06, ASTM D2244-07 and CIE System Test per ASTM E 308-08
Project Number	: P20100890
Customer	: Nicor Inc.
Attention	: Jeff Cook
Analyst	: Frank Foy
Date	: May 14, 2010

ACCREDITED
Cert. No. 0619.01

Spectrophotometer	: BYK Gardner TCS Plus
Reference	: White
Illumination	: CIE D65 10°
Testing Conditions	: 23°C ± 2°C
Exposure	: **QUV accelerated weathering per ASTM G154**

Gray Water Cover

	Sample 1				Sample 2				Sample 3			
Exposure	CIE L	CIE $_a$	CIE $_b$	ΔE	CIE L	CIE $_a$	CIE $_b$	ΔE	CIE L	CIE $_a$	CIE $_b$	ΔE
Initial	60.93	-0.53	0.19		59.99	-0.52	0.36		60.93	-0.53	0.21	
500 hours	61.37	-0.53	0.23	**0.44**	61.15	-0.51	0.36	**1.16**	61.34	-0.51	0.28	**0.42**

CIE $_L$	white = 100% T	CIE $_a$	+ red	CIE $_b$	+ yellow
CIE $_L$	black = 0% T	CIE $_a$	- green	CIE $_b$	- blue

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Intertek

PLASTICS TECHNOLOGY LABORATORIES

Testing	:	Water Absorption - 24 Hour Method
Test Method	:	ASTM D 570-98
Project Number	:	P20100890
Customer	:	Nicor Inc.
Attention	:	Jeff Cook
Analyst	:	Laura Jean Howland
Date	:	April 28, 2010

A2LA ACCREDITED Cert. No. 0619.01

Sample Preparation	:	Tested as received
Sample Conditioning	:	Dried in an air circulating oven for 24 hours at 50°C
Immersion Type	:	Deionized Water at 23°C
Immersion Length	:	24 hours
Significance	:	ASTM D570 specifies that weights be measured to 0.1 mg and change be calculated to the nearest 0.01%

Sample Name	Specimen Number	Length (in)	Width (in)	Thickness (in)	Initial Weight (g)	Final Weight (g)	Change (g)	Change (%)
Gray Water Cover	1	3.314	1.184	0.148	7.8078	7.8096	0.0018	0.02
	2	3.309	1.233	0.144	7.2919	7.2959	0.0040	0.05
	3	3.317	1.177	0.140	7.7803	7.7817	0.0014	0.02
					Average		0.0024	**0.03**

% Change = [(Final Weight - Initial Weight) / Initial Weight] x 100

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Testing	:	**Flexural Properties Of Plastics**
Test Method	:	ASTM D790-07 Procedure A
Project Number	:	P20100890
Customer	:	Nicor Inc.
Attention	:	Jeff Cook
Analyst	:	D.Loehr
Date	:	May 17, 2010

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Material	:	**Gray Water Cover**
Sample Preparation	:	Customer supplied molded samples
Sample Dimensions	:	0.519" x 0.252" x 6.00" (Average)
Sample Type	:	ASTM Flex Bar
Span Length (in)	:	4.032
Cross-Head Speed (in/min)	:	0.108
Span-To- Depth Ratio	:	16±1:1
Radius Of Supports (in)	:	0.197
Radius Of Loading Nose (in)	:	0.197
Conditioning	:	40+ hours at 23°C ± 2°C / 50% ± 5% RH-Controls only
Conditioning	:	500 hours in QUV per ASTM G154 Cycle 2 (exposed)
Test Conditions	:	23°C ± 2°C / 50% ± 5% RH
Significance	:	ASTM D 790 specifies modulus and strength be reported to 3 significant figures

Sample Identification	Test Number	Flexural Stress At 5% Strain (PSI)	Flexural Modulus (tangent *) (PSI)
Controls	1	4580	166000
	2	5030	190000
	3	4680	178000
	4	5110	193000
	5	4870	193000
	Average	**4850**	**184000**
	Std. Dev.	225	11800
500 Hours QUV per ASTM G154 Cycle 2	1	5070	191000
	2	5030	201000
	3	5070	205000
	4	5180	196000
	5	5010	184000
	Average	**5070**	**195000**
	Std. Dev.	66	8260

Note: Exposed specimens tested with exposed side face down

* = computer generated curve fit

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Testing	:	**Tensile Properties**
Test Method	:	ASTM D 638-08
Project Number	:	P20100890
Customer	:	Nicor Inc.
Attention	:	Jeff Cook
Analyst	:	D.Loehr
Date	:	May 17, 2010

Attachments : 2 graphs

ACCREDITED
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Material	:	**Gray Water Cover**
Sample Preparation	:	Customer supplied molded samples
Sample Type	:	ASTM Type IV Tensile Bar
Sample Dimensions	:	0.248" x 0.131" (Average)
Cross-Head Speed	:	2.0 in/min
Extensometer	:	320% based on 25mm gage length. Meets minimum requirements for Practice E 83: Modulus (Class B-2) / Elongation (Class C).
Conditioning	:	40+ Hours At 23°C ± 2°C / 50% ± 5% RH (control)
Conditioning	:	500 hours in QUV per ASTM G154 Cycle 2 (exposed)
Test Conditions	:	23°C ± 2°C / 50% ± 5% RH
Significance	:	ASTM D 638 specifies that strength and modulus be reported to 3 significant figures and elongation be reported to 2 significant figures

Sample Identification	Test Number	Tensile Strength At Yield (PSI)	Elongation At Yield (%)	Tensile Stress At Break (PSI)	Elongation At Break (%)
Control	1	3550	5.3	2470	63
	2	3540	5.3	2580	22
	3	3600	5.3	2710	30
	4	3480	5.1	2390	14
	5	3590	5.2	2570	33
	Average	**3550**	**5.2**	**2540**	**32**
	Std. Dev.	48	0.1	121	19
500 hours QUV per ASTM G154 Cycle 2	1	3540	5.9	2590	73
	2	3530	5.7	2610	70
	3	3570	5.3	2660	43
	4	3460	4.8	2560	13
	5	3490	5.1	2840	22
	Average	**3520**	**5.4**	**2650**	**44**
	Std. Dev.	43	0.4	111	27

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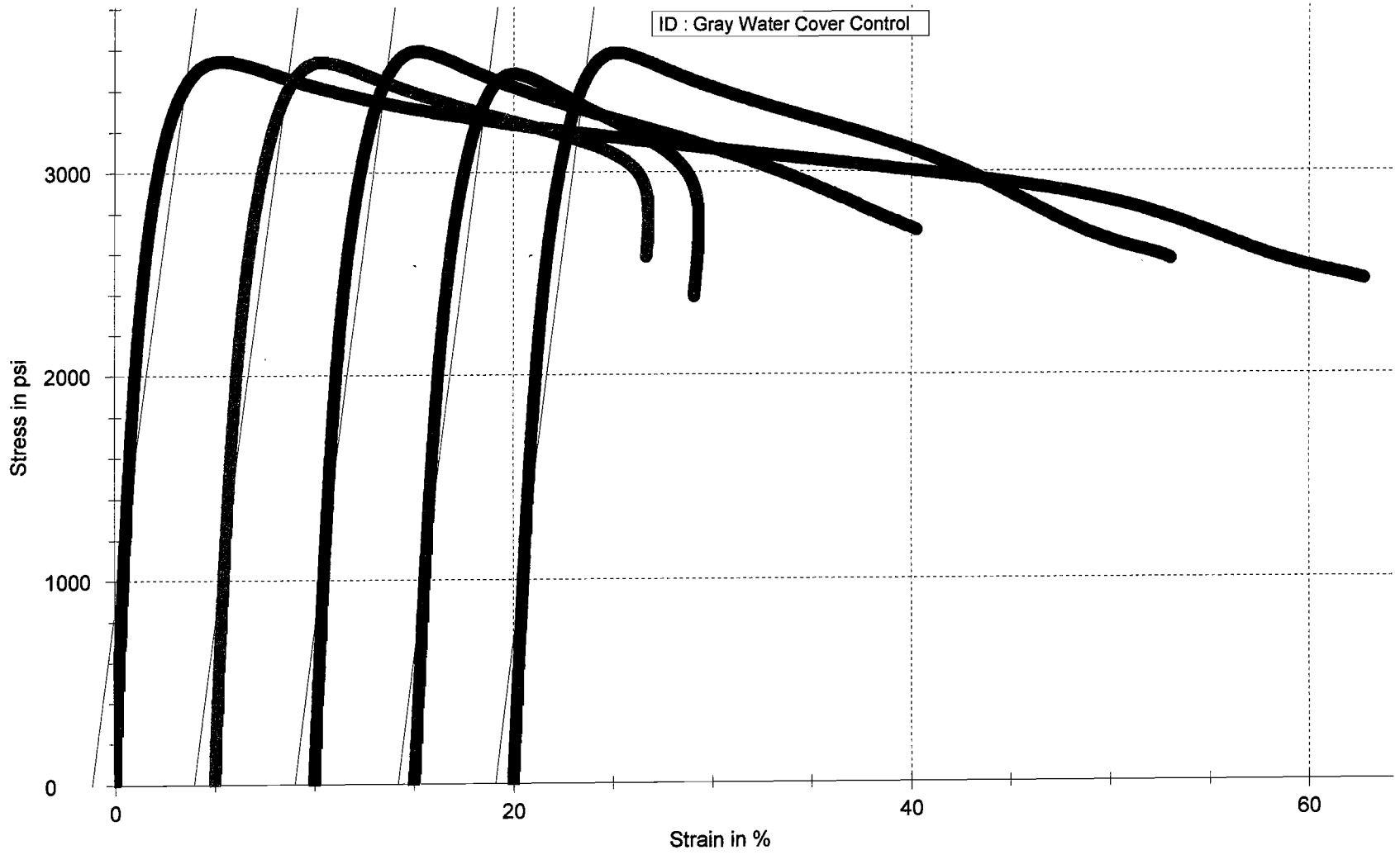
May 17, 2010

Parameter table:

Project Number	:	P20100890
Sample ID	:	Gray Water Cover Control
Test Temp	:	23 °C

Series graphics:

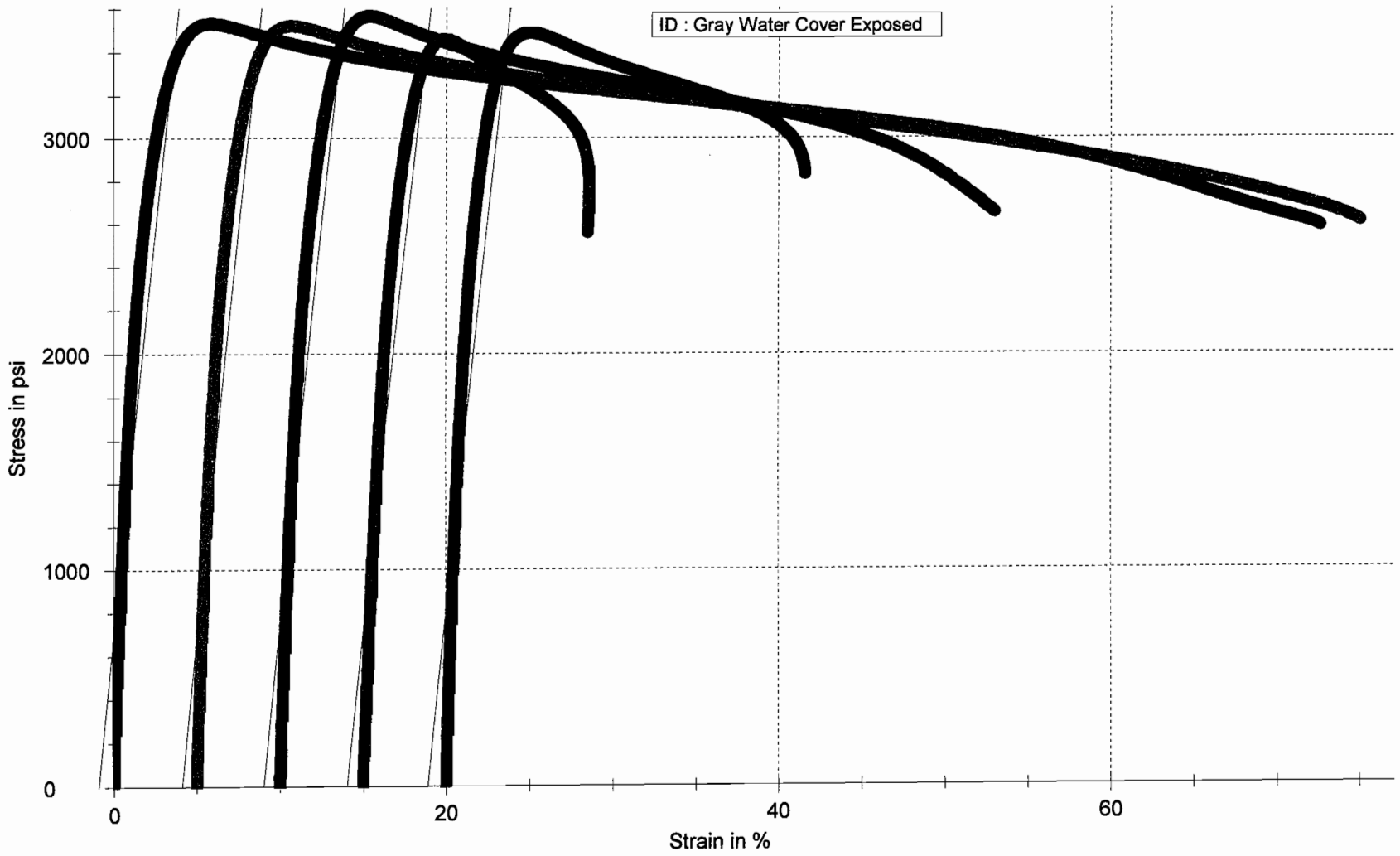


May 17, 2010

Parameter table:

Project Number	:	P20100890
Sample ID	:	Gray Water Cover Exposed
Test Temp	:	23 °C

Series graphics:



Rone Engineering

8908 Ambassador Row, Dallas, TX 75247
7701 W. Little York, Ste. 600, Houston, TX 77040
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Corporate Phone: (214) 630-9745

Report of
Static Coefficient of Friction

Client: Nicor, Inc.
Project: B30 Plastic Lid
Project No.: 0814947

Report No.: 903317
Date of Service: 04/03/09

Material: **B30 Plastic Lid**
Test Method: ASTM C 1028, Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method

Static coefficient of friction testing was performed on one B30 plastic meter box lid. The lid was tested in a dry surface condition followed by a wet surface condition. The results given below are an average of four tests performed under each type of surface condtion on the sample lid.

Sample Number	Coefficient of Friction (Dry)	Coefficient of Friction (Wet)
1	0.73	0.54

Results / Conclusions

Based on the results shown, the static coefficient of friction meets the Americans with Disablilities Act (ADA) minimum requirements of 0.50 for slip resistance.

Technician: C. Snyder

Jack Gary, Special Testing Manager
Construction Materials Engineering Division

DATE:	August 18, 2005
CUSTOMER:	Nicor Inc. 1083 Vine St. Healdsburg, CA 95448
PURCHASE ORDER:	522578
JOB NO.:	TTL-05-1211
REQUESTED BY:	Mr. Jeff Cook
DESCRIPTION:	Two H-20 rated plastic meter box lids arbitrarily Grey #1 and Grey #2. (Reference Figures: 1 through 4)
SUBJECT:	Perform proof load testing of the above-described samples.
PROCEDURE:	Proof load testing was performed in accordance with customer instructions and applicable Tri-State Testing Laboratories, Inc. procedures. Proof load test set-up and a representative test in progress were documented photographically. (Reference Figures: 5 and 6)

RESULTS:

The meter pit lids were loaded at a rate of 0.375 inches per minute utilizing a 3/4" thick black rubber pad and a 1-1/4" thick steel plate both approximately 10" square. A 13" O.D. and 12-1/4" I.D. modified cast iron riser supported the meter pit lids during testing. (Reference Figure: 6)

Nicor Grey #1 meter pit lid obtained a peak load of 25,050 lbf with no damage apparent visually. (Reference Figures: 7, 9 and Load Vs. Position Graph)

Nicor Grey #2 meter pit lid obtained a peak load of 25,084 lbf with no damage apparent visually. (Reference Figures: 8, 10, and Load Vs. Position Graph)

Both meter pit lids contained no visible damage and exceeded the 25,000 lbf proof load requirement for one minute.

Submitted By: _____
Shawn M. Geckeler
Mechanical Engineering

Reviewed By: _____
John R. Morris
Mgr. Laboratory Services

Concurred By: _____
Steven L. Fogle
Director Materials Testing

Rone Engineering

8908 Ambassador Row, Dallas, TX 75247
4221 Freidrich Ln., Ste. 195, Austin, TX 78744
7701 W. Little York, Ste. 600, Houston, TX 77040
Corporate Phone: (214) 630-9745

Client: Nicor Inc.
Project No.: 0814947
Project: **12" Plastic Meter Box Lid**

Report No.: 903115
Date of Service: 11/10/08

12" PLASTIC METER BOX LID

Test No.	Test Condition (Degrees F)	Bearing Plate Size (inches)	Specification Utilized	Total Load (Pounds)	Results
1	160	6 x 6	DWU	6,500	No failure, no permanent deformation
2	72	9 x 9	CFR RR-F-621E	25,000	No failure, no permanent deformation

Note: The same lid was utilized in both tests.

Technician: C. Snyder

Jack Gary, Special Testing Manager
Construction Materials Engineering Division