

Prepared for

Town of Huntington
Department of Environmental Control
100 Main Street
Huntington, New York 11788

On Behalf of

Cashin Associates, P.C.
1200 Veterans Memorial Highway
Hauppauge, New York 11788

FINAL REPORT
CONSTRUCTION QUALITY ASSURANCE
HUNTINGTON/EAST NORTHPORT LANDFILL
FINAL CLOSURE SYSTEM
SUFFOLK COUNTY, NEW YORK



Prepared by

GEOSYNTEC CONSULTANTS
1100 Lake Hearn Drive N.E., Suite 200
Atlanta, Georgia 30342
Project Number GQ3700



JULY 1996

VOLUME VII

Prepared for

Town of Huntington
Department of Environmental Control
100 Main Street
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RECEIVED

OCT 4 1996

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CONSTRUCTION QUALITY ASSURANCE
HUNTINGTON/EAST NORTHPORT LANDFILL
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SUFFOLK COUNTY, NEW YORK



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JULY 1996

VOLUME VII

APPENDIX N

MANUFACTURER'S QUALITY CONTROL DOCUMENTATION

SUB APPENDIX N-1

GEOCOMPOSITE



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

March 22, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # El395, dated March 21, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	300	310
Puncture, lbs.	ASTM-D-4833 (Modi)	90	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, %* (Strength Retained)	ASTM-D-4355	70	85
Asphalt Retention (Gal/Yd ²)	TX DOT 3099	.35	

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell
Quality Control Manager
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1395, dated March 21, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1747366	4597	4.99	69	158	70	370	106	83	100+
1747423	4597	5.04	70	138	75	300	88	81	100+
1810460	4597	5.46	82	156	73	363	111	59	100+
1810475	4597	5.46	75	144	74	346	108	74	100+
1810493	4597	4.82	74	128	83	313	75	82	100+
1810496	4597	5.27	70	143	86	307	87	69	100+
1810535	4597	5.27	70	143	86	307	87	69	100+
1810556	4597	5.18	75	141	87	351	102	62	100+
1810561	4597	5.27	70	143	86	307	87	69	100+
1810605	4597	5.18	75	141	87	351	102	62	100+
1810606	4597	5.18	75	141	87	351	102	62	100+
1810607	4597	5.18	75	141	87	351	102	62	100+
1810634	4597	5.31	74	125	88	291	98	69	100+
1810635	4597	5.31	74	125	88	291	98	69	100+
1810636	4597	5.31	74	125	88	291	98	69	100+
1810637	4597	5.31	74	125	88	291	98	69	100+
1810638	4597	5.31	74	125	88	291	98	69	100+
1810639	4597	5.31	74	125	88	291	98	69	100+
1810659	4597	4.81	69	123	88	320	75	60	100+
1810926	4597	5.40	82	133	80	357	99	51	100+
1810927	4597	5.40	82	133	80	357	99	51	100+
1810928	4597	5.40	82	133	80	357	99	51	100+
1810933	4597	5.40	82	133	80	357	99	51	100+
1810934	4597	5.40	82	133	80	357	99	51	100+
1810935	4597	5.40	82	133	80	357	99	51	100+
1810976	4597	5.51	82	133	86	355	100	66	100+
1810977	4597	5.51	82	133	86	355	100	66	100+
1810978	4597	5.51	82	133	86	355	100	66	100+
1811019	4597	5.61	81	145	78	333	115	51	100+

Handwritten signature
7/13/95

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1395, dated March 21, 1995

Piece		Weight							
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trip Tear	A.O.S.
1811020	4597	5.61	81	145	78	333	115	51	100+
1811039	4597	5.53	75	126	91	328	84	68	100+
1811040	4597	5.53	75	126	91	328	84	68	100+
1811041	4597	5.53	75	126	91	328	84	68	100+
1811049	4597	5.68	81	140	96	335	91	73	100+
1811050	4597	5.68	81	140	96	335	91	73	100+
1811051	4597	5.68	81	140	96	335	91	73	100+
1811071	4597	5.70	85	136	88	356	96	64	100+
1811072	4597	5.70	85	136	88	356	96	64	100+
1811073	4597	5.70	85	136	88	356	96	64	100+
1811082	4597	5.61	81	145	78	333	115	51	100+
1811083	4597	5.61	81	145	78	333	115	51	100+
1811084	4597	5.61	81	145	78	333	115	51	100+
1811089	4597	5.53	75	126	91	328	84	68	100+
1811090	4597	5.53	75	126	91	328	84	68	100+
1811091	4597	5.53	75	126	91	328	84	68	100+
1811092	4597	5.86	67	171	67	347	101	74	100+
1811093	4597	5.86	67	171	67	347	101	74	100+
1811094	4597	5.86	67	171	67	347	101	74	100+
1811097	4597	5.86	67	171	67	347	101	74	100+
1811098	4597	5.86	67	171	67	347	101	74	100+
1811099	4597	5.86	67	171	67	347	101	74	100+
1811114	4597	5.22	62	147	68	294	88	75	100+
1811115	4597	5.22	62	147	68	294	88	75	100+
1811116	4597	5.22	62	147	68	294	88	75	100+
1811324	4597	5.52	65	159	70	401	107	77	100+
1811325	4597	5.52	65	159	70	401	107	77	100+
1811326	4597	5.52	65	159	70	401	107	77	100+
1811327	4597	5.23	67	141	73	322	104	72	100+
1811328	4597	5.23	67	141	73	322	104	72	100+

[Handwritten signature]
7/13/95

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazelhurst, Georgia 31539-0461

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1395, dated March 21, 1995

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.	Oz.							
1811329	4597	5.23	67	141	73	322	104	72	100+	
1811353	4597	5.37	67	136	66	322	109	73	100+	
1811354	4597	5.37	67	136	66	322	109	73	100+	
1811355	4597	5.37	67	136	66	322	109	73	100+	
1811356	4597	5.37	67	136	66	322	109	73	100+	
1811357	4597	5.37	67	136	66	322	109	73	100+	
1811358	4597	5.37	67	136	66	322	109	73	100+	
1811359	4597	5.21	60	127	76	329	89	76	100+	
1811360	4597	5.21	60	127	76	329	89	76	100+	
1811361	4597	5.21	60	127	76	329	89	76	100+	
1811362	4597	5.13	64	139	70	321	98	79	100+	
1811363	4597	5.13	64	139	70	321	98	79	100+	
1811364	4597	5.13	64	139	70	321	98	79	100+	
1811371	4597	4.97	60	120	70	340	125	78	100+	
1811372	4597	4.97	60	120	70	340	125	78	100+	
1811373	4597	4.97	60	120	70	340	125	78	100+	
1811377	4597	4.97	60	120	70	340	125	78	100+	
1811378	4597	4.97	60	120	70	340	125	78	100+	
1811379	4597	4.97	60	120	70	340	125	78	100+	
1811387	4597	5.31	58	150	74	327	116	96	100+	
1811388	4597	5.31	58	150	74	327	116	96	100+	
1811389	4597	5.31	58	150	74	327	116	96	100+	
1811403	4597	5.21	60	127	76	329	89	76	100+	
1811404	4597	5.21	60	127	76	329	89	76	100+	
1811405	4597	5.21	60	127	76	329	89	76	100+	
1811406	4597	5.44	63	152	64	381	99	66	100+	
1811407	4597	5.44	63	152	64	381	99	66	100+	
1811408	4597	5.44	63	152	64	381	99	66	100+	
1811409	4597	5.41	63	144	68	344	122	64	100+	
1811410	4597	5.41	63	144	68	344	122	64	100+	

Handwritten signature and date:
7/13/95

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1395, dated March 21, 1995

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trip	Tear	A.D.S.
1811411	4597	5.41	63	144	68	344	122	64	100+	
1811435	4597	4.93	57	129	67	305	97	73	100+	
1811436	4597	4.93	57	129	67	305	97	73	100+	
1811437	4597	4.93	57	129	67	305	97	73	100+	
1811438	4597	5.41	63	144	68	344	122	64	100+	
1811439	4597	5.41	63	144	68	344	122	64	100+	
1811440	4597	5.41	63	144	68	344	122	64	100+	
1811441	4597	5.01	62	135	76	272	94	67	100+	
1811442	4597	5.01	62	135	76	272	94	67	100+	
1811443	4597	5.01	62	135	76	272	94	67	100+	
1811466	4597	5.52	65	159	70	401	107	77	100+	
1811467	4597	5.52	65	159	70	401	107	77	100+	
1811468	4597	5.52	65	159	70	401	107	77	100+	
1811469	4597	5.13	64	139	70	321	98	79	100+	
1811470	4597	5.13	64	139	70	321	98	79	100+	
1811471	4597	5.13	64	139	70	321	98	79	100+	
1811481	4597	5.01	62	135	76	272	94	67	100+	
1811482	4597	5.01	62	135	76	272	94	67	100+	
1811483	4597	5.01	62	135	76	272	94	67	100+	
1811484	4597	5.44	63	152	64	381	99	66	100+	
1811485	4597	5.44	63	152	64	381	99	66	100+	
1811486	4597	5.44	63	152	64	381	99	66	100+	
1811496	4597	5.23	67	141	73	322	104	72	100+	
1811497	4597	5.23	67	141	73	322	104	72	100+	
1811498	4597	5.23	67	141	73	322	104	72	100+	
1811499	4597	5.22	62	147	68	294	88	75	100+	
1811500	4597	5.22	62	147	68	294	88	75	100+	
1811501	4597	5.22	62	147	68	294	88	75	100+	
1811502	4597	5.31	58	150	74	327	116	96	100+	
1811503	4597	5.31	58	150	74	327	116	96	100+	

Handwritten: 7/13/95

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1395, dated March 21, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1811504	4597	5.31	58	150	74	327	116	96	100+
9519419	4597	5.51	82	133	86	355	100	66	100+
9519420	4597	5.51	82	133	86	355	100	66	100+
9519421	4597	5.51	82	133	86	355	100	66	100+
9519483	4597	5.68	81	140	96	335	91	73	100+
9519484	4597	5.68	81	140	96	335	91	73	100+
9519485	4597	5.68	81	140	96	335	91	73	100+

JA
7/13/95

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BY AMOCO FABRICS COMPANY



Geosynthetics

March 23, 1995

J.D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Subject: East Northport Landfill Project

Dear Sirs:

On March 21, 1995, 10 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50321008.

The 10 finished rolls were fabricated from source component rolls of Enkanet Type 4015-101-0000 produced during Production Run MLN 41115. The gray, full width Colback geotextile is heat bonded to the component rolls during the final step of the fabrication process. Once the source component rolls are bonded together longitudinally and the full width Colback fabric adhered, the end result is a new finished product, Enkanet 4215-102-0000.

I certify that all test values are accurate and were obtained using established ASTM test methods and Akzo procedures where applicable. The values listed on the attached *Letter of Certification Physical Test Results* were generated as a consequence of testing conducted on samples retrieved once per production shift. All testing is done in an on-site production laboratory and all results are retained in the Quality Control/Quality Assurance files at Akzo Nobel's production facility.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-2.nyc

I, Jo Anne W. Gatlin, Notary Public for Buncombe County, State of N.C., do hereby certify that R. D. Bowen personally appeared before me this 4th day of April, 1995 and acknowledged the due execution of the above document.

Notary Public

My commission expires May 8, 1996.

Akzo Nobel Geosynthetics Company
Suite 318, Ridgfield Business Center
Ridgfield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

ENKANET™

ENKANET 4215 SPECIFICATIONS

STANDARD Product DIMENSIONS and WEIGHTS

- ◆ THICKNESS with FABRIC (inches) Typical 0.4
- ◆ Total WEIGHT (oz/yd²) Typical 25.5
- ◆ Core WEIGHT (oz/yd²) Typical 17.0
- ◆ Core WIDTH (inches) 78
- ◆ Roll LENGTH (feet) 320
- ◆ Gross Roll Weight (lbs) 378
- ◆ Area per ROLL (yd²) 231
- ◆ Core POLYMER: High Density Polyethylene, 0.5% by wt. of Carbon Black

HYDRAULIC TRANSMISSIVITY m²/sec ASTM D4716 [SEE CURVES ON REVERSE SIDE]

GEOTEXTILE FABRIC PROPERTIES	PROCEDURE	FML side MARV*	SOIL side TYPICAL*
WEIGHT (oz/yd ²)	ASTM D3776	4.0 ✓	3.5 ✓
GRAB STRENGTH (lbs)	ASTM D4632	120 ✓	160 ✓
GRAB ELONGATION* (%)	ASTM D4632	50 ✓	85 ✓
TRAPEZOIDAL TEAR (lbs)	ASTM D4533	45 ✓	50 ✓
PUNCTURE RESISTANCE (lbs)	ASTM D4833	90 ✓	45 ✓
MULLEN BURST (psi)	ASTM D3786	300 ✓	180 ✓
AOS (US series, sieve #)	ASTM D4751	70 ✓	50 ✓
FLOW RATE (gpm/ft ²)	ASTM D4491	75 ✓	200 ✓
PERMITTIVITY (sec ⁻¹)	ASTM D4491	1.4 ✓	2.7 ✓
FABRIC POLYMER		Polypropylene	PA6 & PET
FABRIC COLOR		Black	Gray

*MARV = Minimum Average Roll Value which represents the industry standard 95% confidence level

**MARV not available yet due to limited testing

EN4215-5.INT
02/95

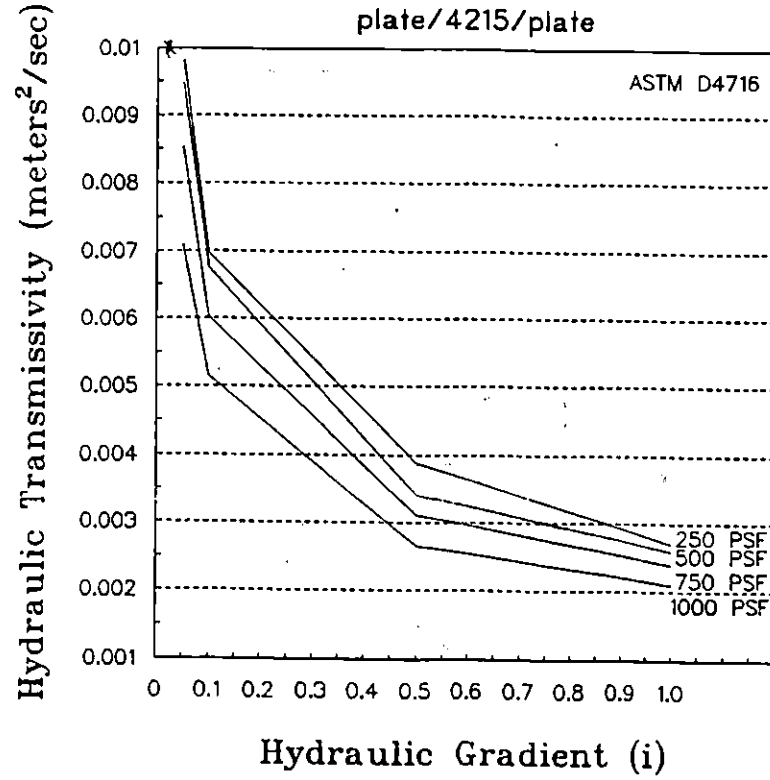
RECEIVED
23 March 95

Akzo Nobel Geosynthetics Corporation
Suite 518, Ridgeland Business Center
Ridgeland Court
P.O. Box 7240
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009

1×10^{-2} @ 0.05 i
@ 250 PSF

ENKANET 4215

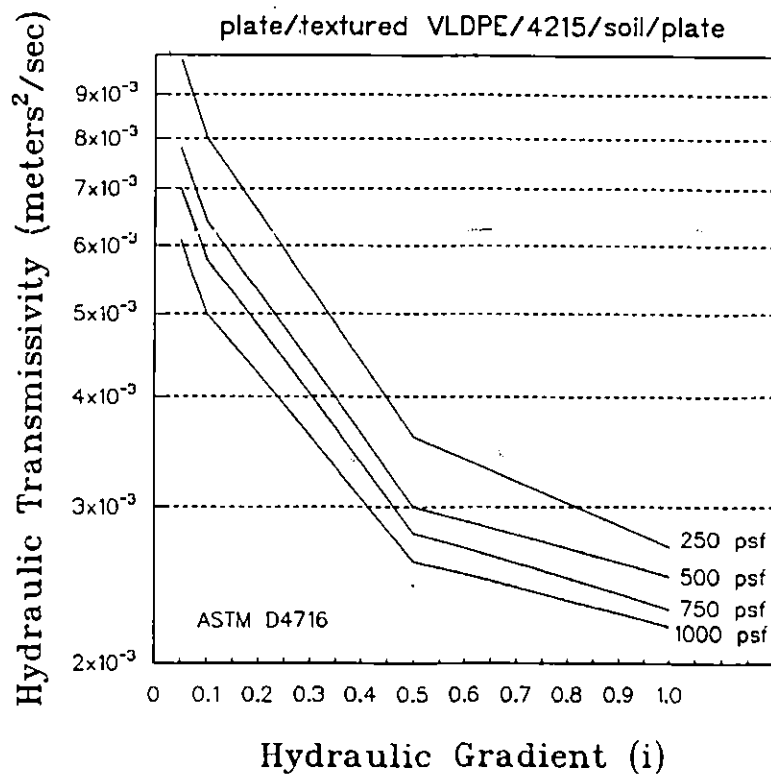
plate/4215/plate



5.5×10^{-5} @ 0.05 i
@ 250 PSF

ENKANET 4215

plate/textured VLDPE/4215/soil/plate



SOLD
TO:

EROSION CONTROL SYS INC
9015 ENERGY LANE
NORTHPORT AL

35476

AKZO NOBEL

V-2795
3780#

SHIPPING MANIFEST

SHIPPED
TO:

J D POSILICO INC
101 TOWNLINE ROAD
E NORTHPORT NY

11731

SPECIAL INSTRUCTIONS:

ALL SHIPMENTS SUBJECT TO TERMS AND CONDITIONS
OF OUR CONFIRMATION ORDER.

SHIP VIA:

ROSEWAY

FREIGHT PREPAY/ADD \$ 311.85

YOUR ORDER NO.		OUR ORDER NO.		MANIFEST DATE		MANIFEST NO.		PAGE			
12622		C008895		03/21/95		50321008		1			
PRODUCT ID		DESCRIPTION				UNIT NUMBER		SQ. YD.			
8-4215-102-0000		ENKANET TYPE 4215 CONTAINMENT DRAINAGE NET 2 WIDE AMOCO 4597/COLBACK UNIT = ROLL				41214551		231.0			
						41214552		231.0			
						41214553		231.0			
						41214554		231.0			
						41214556		231.0			
						41214557		231.0			
						41214558		231.0			
						41214559		231.0			
						41214560		231.0			
						41214561		231.0			
								I.D. TOTAL			
Rec'd #2666 B. J.											
CLAIM FOR DEFECTS IN MERCHANDISE MUST BE ACCOMPANIED BY PACKING SLIP						TOTAL		10		2310.0	

one (704) 665-5050
(704) 665-5009

Rec'd #2666
B. J. [Signature]

one (704) 665-5050
(704) 665-5009

SHIPPING - 1

Akzo Nobel Geosynthetics Company
P.O. Box 7249
Auburn, AL 36809



Dow U.S.A.

The Dow Chemical Company
Freeport, Texas 77541

September 20 1994

Lot 1 of 1 ; Page 1

Post-it [®] Fax Note	7671	Date	4/5	# of pages	1
To	RICI BOWEN	From	ED	E	
Co./Dept.		Co.	G.P. N.C.		
Phone #		Phone #			
Fax #		Fax #			

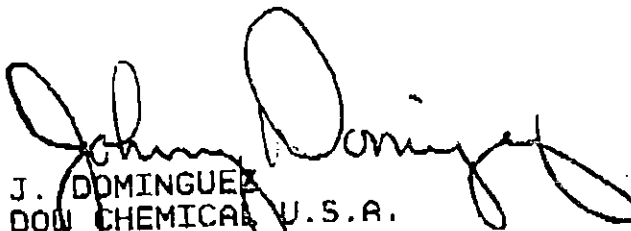
FAX 704-391-6915

CERTIFICATE OF ANALYSIS

CUSTOMER ORDER NUMBER :	010009
DOW INVOICE NUMBER :	8890066
DATE SHIPPED :	07/19/94
CAR NUMBER :	UTCX-58104
NET WEIGHT :	189200
DOW TYPE :	PE HD 10262N
LOT NUMBER :	524343

MELT INDEX (I2)
DENSITY

10.06
:9626


J. DOMINGUEZ
DOW CHEMICAL U.S.A.
POLYETHYLENE III
BUILDING B-2707
FREEPORT, TX. 77541



Dow U.S.A.

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70763-0150

MARCH 31, 1995

From: DOW CHEMICAL - Louisiana Division

To: GAIL KUHN

1-404-447-1329

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <5565387>

LOCATION	DORAVILLE	GA	30340
DOW NO.	7282470		
CUST ORDER NO	66367		
SHIPPED	033195		
VIA	TRUCK		
ROUTE	YLSI/MEDH		
TYPE	HDPE 10452N		
GROSS	16,048		
TARE	616		
NET	15,432		
LOTS	95013131399		
PKG. LOT NO.	QP 3139-S-9		
MELT INDEX	10.00		
DENSITY	.9619		


MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA

APR -18' 95 (TUE) 15:02 MAY 15 '95 18:01 AKZO NOBEL GEOSYNTHETICS CO
GENERAL POLYMERS NC

TEL: 704 391 6826

P.5 P.01

LOUISIANA DIVISION PAGE 002 OF 002



Dow U.S.A.

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

MARCH 07, 1995

From: DOW CHEMICAL - Louisiana Division

To: GAIL KUHN

1-404-447-1329

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <3566387>

LOCATION	DORAVILLE	GA	30340
DOW NO.	7233736		
CUST ORDER NO	66122		
SHIPPED	030785		
VIA	ACFX 68524		
ROUTE	MP/NEWOR/NS		
TYPE	HDPE 10462N		
GROSS	266,200		
TARE	65,300		
NET	190,900		
LOTS	95013131459		
PKG. LOT NO.	QP 3145-S-9		
MELT INDEX	9.84		
DENSITY	.9620		

MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLOC. 8601
PLAQUEMINE, LA

Post-Net brand fax transmittal memo 7671		# of pages = 2	
To	Rick Bowen	From	Tina Helms
Co.	AKZO Nobel	Co.	General Polymers
Dept.		Phone #	704/391-6840



Geosynthetics

MARCH 28, 1995

J. D. POSILLICO, INC.

ATTN.: Mr. Joe Splavey
Job Trailer

This letter is in reference to our March 21, shipment of Enkanet Type 4215-102-0000 under manifest 50321008.

It is my understanding that the roll labels supplied with the rolls lacked the appropriate information. Items not included were the manufacturing lot number, date of manufacture, width and length. The following information should clarify the issue.

Manufacturing Lot No. = 41115
Date of manufacture = Dec. 14, 1994
Width = 78 inches
Roll length = 320 feet

The date of manufacture was coded into the roll number where the 8 digit number represents the YMMDD###.

Y = year

MM = month

DD = day number

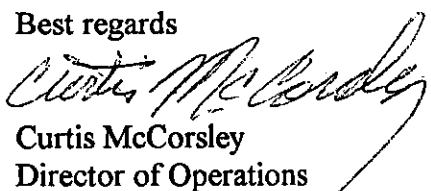
= Production roll number that day

The area of the roll was given as 231 square yards. Since all rolls for this type have a standard width of 78 inches the roll length can be determined.

All future shipments will be clearly labeled with the MLM, date of manufacture, roll width and roll length.

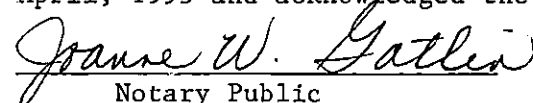
I apologize for the misunderstanding and any problems we may have caused.

Best regards


Curtis McCorsley
Director of Operations

RECEIVED
50 APR 1995

I, JoAnne W. Gatlin, Notary Public for Buncombe County, State of NC, do hereby certify that Curtis McCorsley, personally appeared before me this 4th day of April, 1995 and acknowledged the due execution of the above document.


JoAnne W. Gatlin
Notary Public

My commission expires May 8, 1996.

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 565-5050
Telex (704) 665-5009



Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 41115

ROLL No.	ASTM D1777	ASTM D3776	ASTM D3774	ASTM D1621	Akzo 92-QL-047	ASTM D413
<u>TESTED</u>	<u>Composite Thick.</u>	<u>Mass/ Unit Area</u>	<u>CORE WIDTH</u>	<u>Compression Thick.</u>	<u>Fabric Overlap</u>	<u>Peel Test</u>
	<u>Inches</u>	<u>Core/Total (oz/yd²)</u>	<u>Inches</u>	<u>@400 psf, (Inches)</u>	<u>Amoco/Colback</u>	<u>Amoco/Colback</u>
					<u>Inches</u>	<u>lbs per foot</u>
41214554	0.421	17.1/NA	39.25	0.3886	3.000/NA	NA/NA
41214559	0.420	17.4/NA	39.00	0.3853	3.125/NA	NA/NA
Average	0.421	17.3/NA	39.13	0.3870	3.063/NA	NA/NA
Max Value	0.421	17.4/NA	39.25	0.3886	3.125/NA	NA/NA
Min Value	0.420	17.1/NA	39.00	0.3853	3.000/NA	NA/NA
Std. Deviation	0.001	0.2/NA	0.18	0.0023	0.088/NA	NA/NA

All Samples are taken in accordance with ASTM D4354

NA = Not Available

Note: All the recorded results above were derived from the 4215-102-0000 Single Width Source Rolls, 4015-101-0000.

Single Width Source Rolls of Enkanet 4015-101-0000

<u>Roll Number of Enkanet 4215-102-0000 Shipped</u>	<u>Roll number</u>	<u>Roll Number</u>
41214551	41116063	41116083
41214552	41116068	41116069
41214553	41116066	41116064
41214554	41116058	41116071
41214556	41116086	41116074
41214557	41116073	41116078
41214558	41116065	41116067
41214559	41116060	41116081
41214560	411160082	41116085
41214561	41116059	41116080

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Certify.NYC

I, Jo Anne W. Gatlin, Notary Public for Buncombe County, State of N.C., do hereby certify that R. D. Bowen personally appeared before me this 4th day of April, 1995 and acknowledged the due execution of the above document.

Joanne W. Gatlin
Notary Public

My commission expires May 8, 1996.

Akzo Nobel Geosynthetics Company
Suite 318, Ridgfield Business Center
Ridgfield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

April 4, 1995

Cashin Associates, P.C.
Engineers and Architects
1200 Veterans Memorial Highway
Hauppague, NY 11788

Attn: Stephen Brix, P.E.

Subject: Certifications for Geotextiles used on Enkanet 4215-102-0000, East Northport Project

Dear Sirs:

On March 21, 1995, 10 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50321008.

Two Different geotextiles were used in producing the finished product, Amoco Type 4597, and BASF Colback ND 120.

Attached please find the certification from Amoco Fibers that details the properties of Amoco 4597 tested for our purchase order #85-404011, and shipped to us under Shipping # IO837, dated April 26, 1994. This shipment meets the Minimum p Roll Average Values listed in the specifications that you faxed us.

The Colback ND 120 supplied on the Enkanet 4215-102-0000 was tested by GeoSyntec Consultants because the supplier, BASF, did not have any data base pertaining to the properties that we were interested in for geosynthetic applications. As a consequence, when we submitted our specification sheet for Enkanet 4215-102-0000, the values noted for Colback were clearly identified as "typicals." The listing of your version of the specification identifies minimum roll average values for the heat bonded fabric (Colback ND 120). Since the specification was written around Enkanet 4215, obviously the specification is in error as it was finalized after we submitted our specification sheet.

Akzo certifies that Geosyntec consultants in Boca Raton, Florida tested the Colback ND 120 and arrived at the values listed in their report.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-3.nyc I, Jo Anne W. Gatlin, Notary Public for Buncombe County, North Carolina, do hereby certify that R. D. Bowen personally appeared before me this 4th day of April, 1995 and acknowledged the due execution of the above document.

Notary Public

My commission expires May 8, 1996.

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

April 5, 1995

Cashin Associates, P.C.
Engineers and Architects
1200 Veterans Memorial Highway
Hauppague, NY 11788

Attn: Stephen Brix, P.E.

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Dear Mr. Brix:

On March 21, 1995, 10 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50321008.

Attached is a Certificate of Analysis from the Manufacturer of the resin, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin lot #524343 shipped to Akzo on 7/19/94. The resin from lot # 524343 was used in the manufacture of the 10 rolls of Enkanet Type 4215-102-0000 shipped on March 21, 1995 to the East Northport Landfill Project.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-4.nyc

STATE OF NORTH CAROLINA
COUNTY OF BUNCOMBE

I, Joanne W. Gathin, Notary Public, do hereby certify that R. D. Bowen personally appeared before me this 5th day of April, 1995 and acknowledged the due execution of the above document.

Joanne W. Gathin
Notary Public

Commission expiration date: 5-8-96

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

April 5, 1995

Cashin Associates, P.C.
Engineers and Architects
1200 Veterans Memorial Highway
Hauppague, NY 11788

Attn: Stephen Brix, P.E.

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Dear Mr. Brix:

On March 21, 1995, 10 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50321008.

Attached are the plate/plate Enkanet 4215-102-0000 transmissivity results conducted by GeoSyntec Consultants on 2/11/95. The sample used in this test was retrieved from product produced on December 14, 1995 during the production run of the 10 rolls of Enkanet Type 4215-102-0000 shipped to you on March 21, 1995.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-5.nyc

STATE OF North Carolina
COUNTY OF Currituck

I, Joanne W. Gathin, Notary Public do hereby certify that R. D. Bowen personally appeared before me this 5th day of April, 1995, and acknowledged the due execution of the above document.

Joanne W. Gathin
Notary Public

Commission Expiration Date: 5-8-96

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex 704-665-5009



Geosynthetics

April 21, 1995

Cashin Associates, P.C.
Engineers and Architects
1200 Veterans Memorial Highway
Hauppague, NY 11788

Attn: Stephen Brix, P.E.

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Dear Mr. Brix:

On April 21, 1995, 10 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50421007.

Attached are the Certificates of Analysis from the Manufacturer of the resin, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10262N, lot number 544243, type 10062N, lot number 554843, and type number 10462N, lot number QP 3139-5-9 used to produce the 10 rolls of Enkanet Type 4215-102-0000 listed under Manifest Number 50421007.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-11.nyc

STATE of NORTH CAROLINA
COUNTY of BUNCOMBE

I, Joanne W. Gattlin, Notary Public, do hereby Certify that R.D. Bowen personally appeared before me this 21st day of April, 1995 and Acknowledged the due execution of the above document.

Notary Public

Commision expiration date: 5-8-96

Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 565 5050
Telefax (704) 565 5009

**Dow U.S.A.**The Dow Chemical Company
Freeport, Texas 77541

September 26, 1994

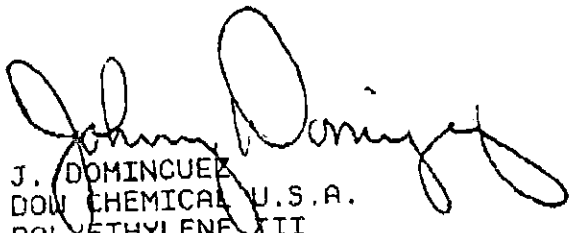
Lot 1 of 1 ; Page 1

GENERAL POLYMERS
ATTENTION: TAMMY
CHARLOTTE, NC

FAX 704-391-6826

CERTIFICATE OF ANALYSIS

CUSTOMER ORDER NUMBER :	010720
DOW INVOICE NUMBER :	7026832
DATE SHIPPED :	09/20/94
CAR NUMBER :	UTCX-58141
NET WEIGHT :	187500
DOW TYPE :	PE HD 10262N
LOT NUMBER :	544243

MELT INDEX (I2)
DENSITY9.72
.9615

J. DOMINCUEZ
DOW CHEMICAL U.S.A.
POLYETHYLENE III
BUILDING B-2707
FREEPORT, TX. 77541



Dow U.S.A.

The Dow Chemical Company
Freeport, Texas 77541

November 28, 1994

Lot 1 of 1 ; Page 1

Post-it® Fax Note	7671	Date	4/11	# of pages	3
To	CAROLYN	From	ED		
Co/Dept	DIR 30 MODEL CEC.	Co:	G.P.N.C.		
Phone	VERBAL ORDER KUNT/SAND	Phone	704-391084		
Fax	704-665-5042	Fax			

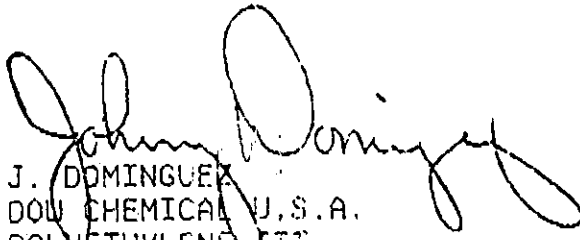
FAX 704-391-6827

CERTIFICATE OF ANALYSIS

CUSTOMER ORDER NUMBER :	010142
DOW INVOICE NUMBER :	7096178
DATE SHIPPED :	11/28/94
CAR NUMBER :	DOWX-20090
NET WEIGHT :	190800
DOW TYPE :	PE HD 10062N
LOT NUMBER :	554843

MELT INDEX (I2)
DENSITY

9.62
.9617


J. DOMINGUEZ
DOW CHEMICAL U.S.A.
POLYETHYLENE III
BUILDING B-2707
FREEPORT, TX. 77541


Dow U.S.A.

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

MARCH 31, 1995

From: DOW CHEMICAL - Louisiana Division

To: GAIL KUHN

1-404-447-1329

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <3566387>

LOCATION	DORAVILLE	GA	30340
DOW NO.	7282470		
CUST ORDER NO	66367		
SHIPPED	033195		
VIA	TRUCK		
ROUTE	YLSI/MEDH		
TYPE	HOPE 10462N		
GROSS	16,048		
TARE	616		
NET	15,432		
LOTS	95013131399		
PKG. LOT NO.	QP 3139-5-9		
MELT INDEX	10.00		
DENSITY	.9619		

MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA



Geosynthetics

April 21, 1995

Cashin Associates, P.C.
Engineers and Architects
1200 Veterans Memorial Highway
Hauppague, NY 11788

Attn: Stephen Brix, P.E.

Subject: Certifications for Geotextiles used on Enkanet 4215-102-0000, East Northport Project

Dear Sirs:

On April 21, 1995, 10 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50421007.

Two Different geotextiles were used in producing the finished product, Amoco Type 4597, and BASF Colback ND 120.

Attached please find the certification from Amoco Fibers that details the properties of Amoco 4597 tested for our purchase order #85-503-019, and shipped to us under Shipping # E1338, dated March 18, 1995. This shipment meets the Minimum Roll Average Values listed in the project specifications.

A sample of Colback ND 120 (from Lot #5102) supplied on the Enkanet 4215-102-0000 for these 10 rolls was forwarded to GeoSyntec Consultants in Boca Raton, Florida. These results will be forwarded to you for comparison with the Colback typical values (Minimum roll values have never been established because we did not have any data base prior to GeoSyntec evaluating the initial sample submittal).

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-010.nyc

STATE of NORTH CAROLINA
COUNTY of BUNCOMBE

I, Joanne W. Gatlin, Notary Public, do hereby Certify that R. D. Bowen personally appeared before me this 21st day of April, 1995 and Acknowledged the due execution of the above document.

Joanne W. Gatlin
Notary Public

Comission expiration date: 5-8-96

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

March 28, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # E1338, dated March 18, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	300	310
Puncture, lbs.	ASTM-D-4833 (Modi)	90	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, % (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

William L. Music

William L. Music
Quality Control Supervisor
Amoco Fabrics and Fibers Company

mom



Geosynthetics

April 24, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Dear Mr. Brix:

On April 24, 1995, 15 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50424003.

Attached are the Certificates of Analysis from the Manufacturer of the resin, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10262N, lot number 544243, and type number 10462N, lot number QP 3139-5-9 used to produce the 15 rolls of Enkanet Type 4215-102-0000 listed under Manifest Number 50424003.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-14.nyc

STATE of NORTH CAROLINA
COUNTY of BUNCOMBE

I, Joanne W. Gathin, Notary Public, do hereby Certify that R.D. Bowen personally appeared before me this 25th day of April, 1995 and Acknowledged the due execution of the above document.

Notary Public

Commission expiration date: May 8, 1996

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Dow U.S.A.

The Dow Chemical Company
Freeport, Texas 77541

September 26, 1994

Lot 1 of 1 ; Page 1

GENERAL POLYMERS
ATTENTION: TAMMY
CHARLOTTE, NC

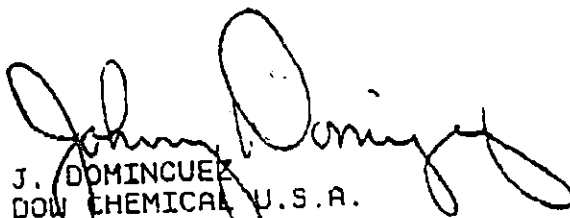
FAX 704-391-6826

CERTIFICATE OF ANALYSIS

CUSTOMER ORDER NUMBER :	010720
DOW INVOICE NUMBER :	7026832
DATE SHIPPED :	09/20/94
CAR NUMBER :	UTCX-58141
NET WEIGHT :	187500
DOW TYPE :	PE HD 10262N
LOT NUMBER :	544243

MELT INDEX (I2)
DENSITY

9.72
.9615


J. DOMINCUEZ
DOW CHEMICAL U.S.A.
POLYETHYLENE III
BUILDING 8-2707
FREEPORT, TX. 77541

DOW

Dow U.S.A.

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

MARCH 31, 1995

From: DOW CHEMICAL - Louisiana Division

To: GAIL KUHN

1-404-447-1329

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <3566387>

LOCATION	DORAVILLE	GA	30340
DOW NO.	7282470		
CUST ORDER NO	66367		
SHIPPED	033195		
VIA	TRUCK		
ROUTE	YLSI/MEDH		
TYPE	HOPE 10462N		
GROSS	16,048		
TARE	616		
NET	15,432		
LOTS	95013131399		
PKG. LOT NO.	QP 3139-5-9		
MELT INDEX	10.00		
DENSITY	.9619		

Mike Newsom

MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA



Geosynthetics

April 24, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 13 rolls from 504231 & 2 rolls from 504201
Manifest No.: 50424003

ROLL(S) TESTED per MLN 504231

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
TESTED	Inches	Total (oz/yd ²)	Inches
50423913	0.434	26.7	78.0

All Samples are taken in accordance with ASTM D4354

Roll Number of Enkanet 4215-102-0000 Shipped	Single Width Source Rolls of Enkanet 4015 Roll number	Roll Number
50421903	50411051	50413028
50421904	50410013	50415017
50423901	50410017	50415013
50423902	50419023	50414032
50423903	50419021	50414033
50423904	50410016	50414030
50423905	50411011	50414031
50423906	50411010	50414036
50423907	50411003	50414037
50423908	50410018	50414038
50423909	50411009	50414039
50423910	50410008	50414040
50423911	50411006	50414041
50423912	50411005	50414034
50423913	50411004	50414035

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-15.nyc

STATE of NORTH CAROLINA
COUNTY of BUNCOMBE

I, Joanne W. Gathin, Notary Public, do hereby Certify that R.D. Bowen
personally appeared before me this 25th day of April, 1995 and
Acknowledged the due execution of the above document.

Joanne W. Gathin
Notary Public

Commission expiration date: May 8, 1996

Akzo Nobel Geosynthetics Company
Suite 312 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Tel: (704) 665-5050
Tel: (704) 665-5009



April 24, 1995

Geosynthetics

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Certifications for Geotextiles used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

On April 24, 1995, 15 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50424003.

Two Different geotextiles were used in producing the finished product, Amoco Type 4597, and BASF Colback ND 120.

Attached please find the certifications from Amoco Fibers that details the properties of Amoco 4597 tested for our purchase order #85-503-019, and shipped to us under Shipping # E1338, dated March 18, 1995 and for Shipping #E1375, dated March 20, 1995 for the same purchase order. These shipments meet the Minimum Roll Average Values listed in the project specifications.

A Sample of Colback ND 120 from (Lots #5105) supplied on the Enkanet 4215-102-0000 for these 15 rolls was sent to GeoSyntec Consultants in Boca Raton, Florida for physical property testing. These results will be forwarded to you for comparison with the Colback typical values.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-013.nyc

STATE of NORTH CAROLINA
COUNTY of BUNCOMBE

I, Joanne W. Gattlin, Notary Public, do hereby Certify that R. D. Bowen personally appeared before me this 25th day of April, 1995 and Acknowledged the due execution of the above document.

Notary Public

Commission expiration date: May 8, 1996

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Teletax (704) 665-5009



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

March 28, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # E1375, dated March 20, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	300	310
Puncture, lbs.	ASTM-D-4833 (Modi)	90	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, % (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

William L. Music

William L. Music
Quality Control Supervisor
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

March 28, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # E1338, dated March 18, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	300	310
Puncture, lbs.	ASTM-D-4833 (Modi)	90	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, % (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

William L. Music

William L. Music
Quality Control Supervisor
Amoco Fabrics and Fibers Company

mom



Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 504201

ROLL(S) TESTED per SHIFT per LOT

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50421901	0.422	26.7	78.25

All Samples are taken in accordance with ASTM D4354

Roll Number of Enkanet 4215-102-0000 Shipped	Single Width Source Rolls of Enkanet 4015-101-0000 Roll number	Roll Number
50420901	50411014	50413034
50420902	50411012	50413035
50420903	50411019	50413030
50420904	50411015	50410007
50420905	50410008	50415012
50420906	50415015	50413031
50420907	50410015	50415014
50420908	50410014	50415016
50421901	50419019	50414003
50421902	50411013	50413029

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

RECEIVED
25 APRIL 95

STATE of NORTH CAROLINA
COUNTY of BUNCOMBE
Cert-12.nyc

I, Jeanne W. Gathin Notary Public, do hereby Certify that R.D. Bowen
personally appeared before me this 21st day of April, 1995 and
Acknowledged the due execution of the above document.

Jeanne W. Gathin
Notary Public

Commision expiration date: 5-8-96

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Telephone: (704) 665-5050
Telefax: (704) 665-5009



Geosynthetics

TELEFAX

Date: 26 April 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: CASHIN & ASSOCIATES
Attention: Steve BRIX, P.E.
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 11

Re: Enkanet 4215-102-0000 Geotextile Results: Amoco 4597 Shipping #E1338 & #E1375

Dear Steve:

Attached please find the Amoco factory laboratory geotextile results for Shipping #E1338 and #E1375 referenced in my Geotextile Certification letter of April 24, 1995. Shipping #E1338 was also referenced in my Geotextile Certification letter dated April 21, 1995.

Regards,

Rick Bowen

Rick Bowen

Cash-02.fax

ENCLOSED ARE COPIES OF WHAT I
FAXED YOU ON THE 26 of APRIL.

RB

RECEIVED
11 MAY 1995

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1338, dated March 18, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.C.S.
1810213	4597	6.95	79	175	74	389	114	89	100+
1810214	4597	6.95	79	175	74	389	114	89	100+
1810378	4597	4.82	74	128	83	313	75	82	100+
1810379	4597	4.82	74	128	83	313	75	82	100+
1810380	4597	4.82	74	128	83	313	75	82	100+
1810381	4597	5.70	79	148	81	348	102	71	100+
1810382	4597	5.70	79	148	81	348	102	71	100+
1810383	4597	5.70	79	148	81	348	102	71	100+
1810407	4597	5.46	75	144	74	346	108	74	100+
1810408	4597	5.46	75	144	74	346	108	74	100+
1810409	4597	5.46	75	144	74	346	108	74	100+
1810417	4597	4.86	63	130	83	349	105	67	100+
1810418	4597	4.86	63	130	83	349	105	67	100+
1810419	4597	4.86	63	130	83	349	105	67	100+
1810420	4597	4.82	62	138	81	309	87	56	100+
1810421	4597	4.82	62	138	81	309	87	56	100+
1810422	4597	4.82	62	138	81	309	87	56	100+
1810423	4597	4.81	69	123	88	320	75	60	100+
1810424	4597	4.81	69	123	88	320	75	60	100+
1810425	4597	4.81	69	123	88	320	75	60	100+
1810426	4597	5.46	82	156	73	363	111	59	100+
1810427	4597	5.46	82	156	73	363	111	59	100+
1810428	4597	5.46	82	156	73	363	111	59	100+
1810458	4597	5.46	82	156	73	363	111	59	100+
1810459	4597	5.46	82	156	73	363	111	59	100+
1810461	4597	4.82	62	138	81	309	87	56	100+
1810462	4597	4.82	62	138	81	309	87	56	100+
1810463	4597	4.82	62	138	81	309	87	56	100+
1810470	4597	5.30	87	134	79	314	76	58	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1338, dated March 18, 1995

Piece	Weight								
Number	Style	Yd. 2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1810471	4597	5.30	87	134	79	314	76	58	100+
1810472	4597	5.30	87	134	79	314	76	58	100+
1810473	4597	5.46	75	144	74	346	108	74	100+
1810474	4597	5.46	75	144	74	346	108	74	100+
1810492	4597	4.82	74	128	83	313	75	82	100+
1810494	4597	4.82	74	128	83	313	75	82	100+
1810495	4597	5.27	70	143	86	307	87	69	100+
1810497	4597	5.27	70	143	86	307	87	69	100+
1810524	4597	5.43	76	126	93	299	86	74	100+
1810525	4597	5.43	76	126	93	299	86	74	100+
1810526	4597	5.43	76	126	93	299	86	74	100+
1810528	4597	5.43	76	126	93	299	86	74	100+
1810529	4597	5.43	76	126	93	299	86	74	100+
1810530	4597	5.43	76	126	93	299	86	74	100+
1810533	4597	5.27	70	143	86	307	87	69	100+
1810534	4597	5.27	70	143	86	307	87	69	100+
1810557	4597	5.18	75	141	87	351	102	62	100+
1810558	4597	5.18	75	141	87	351	102	62	100+
1810559	4597	5.27	70	143	86	307	87	69	100+
1810560	4597	5.27	70	143	86	307	87	69	100+
1810640	4597	5.89	80	161	81	394	132	67	100+
1810641	4597	5.89	80	161	81	394	132	67	100+
1810642	4597	5.89	80	161	81	394	132	67	100+
1810646	4597	5.89	80	161	81	394	132	67	100+
1810647	4597	5.89	80	161	81	394	132	67	100+
1810648	4597	5.89	80	161	81	394	132	67	100+
1810651	4597	5.30	87	134	79	314	76	58	100+
1810652	4597	5.30	87	134	79	314	76	58	100+
1810653	4597	5.30	87	134	79	314	76	58	100+
1810655	4597	5.24	74	127	79	303	88	66	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1338, dated March 18, 1995

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.	2 Oz.							
1810656	4597	5.24	74	127	79	303	88	66	100+	
1810657	4597	5.24	74	127	79	303	88	66	100+	
1810658	4597	4.81	69	123	88	320	75	60	100+	
1810660	4597	4.81	69	123	88	320	75	60	100+	
1810715	4597	5.48	78	128	92	312	91	60	100+	
1810716	4597	5.48	78	128	92	312	91	60	100+	
1810717	4597	5.48	78	128	92	312	91	60	100+	
1810718	4597	5.70	79	148	81	348	102	71	100+	
1810719	4597	5.70	79	148	81	348	102	71	100+	
1810720	4597	5.70	79	148	81	348	102	71	100+	
1810721	4597	5.48	78	128	92	312	91	60	100+	
1810722	4597	5.48	78	128	92	312	91	60	100+	
1810723	4597	5.48	78	128	92	312	91	60	100+	
1810734	4597	5.19	73	135	82	320	111	70	100+	
1810735	4597	5.19	73	135	82	320	111	70	100+	
1810736	4597	5.19	73	135	82	320	111	70	100+	
1810737	4597	5.06	75	126	90	325	101	60	100+	
1810738	4597	5.06	75	126	90	325	101	60	100+	
1810739	4597	5.06	75	126	90	325	101	60	100+	
1810740	4597	4.86	63	130	83	349	105	67	100+	
1810741	4597	4.86	63	130	83	349	105	67	100+	
1810742	4597	4.86	63	130	83	349	105	67	100+	
1810752	4597	5.24	74	127	79	303	88	66	100+	
1810753	4597	5.24	74	127	79	303	88	66	100+	
1810754	4597	5.24	74	127	79	303	88	66	100+	
1810775	4597	5.54	81	157	84	325	108	57	100+	
1810776	4597	5.54	81	157	84	325	108	57	100+	
1810777	4597	5.54	81	157	84	325	108	57	100+	
1810778	4597	5.54	81	157	84	325	108	57	100+	
1810779	4597	5.54	81	157	84	325	108	57	100+	

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1338, dated March 18, 1995

Piece	Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.2 Oz.							
1810780	4597	5.54	81	157	84	325	108	57	100+
1810790	4597	5.19	77	144	73	354	83	65	100+
1810791	4597	5.19	77	144	73	354	83	65	100+
1810792	4597	5.19	77	144	73	354	83	65	100+
1810793	4597	5.19	73	135	82	320	111	70	100+
1810794	4597	5.19	73	135	82	320	111	70	100+
1810795	4597	5.19	73	135	82	320	111	70	100+
1810806	4597	5.19	77	144	73	354	83	65	100+
1810807	4597	5.19	77	144	73	354	83	65	100+
1810808	4597	5.19	77	144	73	354	83	65	100+
1810809	4597	5.06	75	126	90	325	101	60	100+
1810810	4597	5.06	75	126	90	325	101	60	100+
1810811	4597	5.06	75	126	90	325	101	60	100+
1810812	4597	5.13	75	143	78	283 ✓	87	57	100+
1810813	4597	5.13	75	143	78	283 ✓	87	57	100+
1810814	4597	5.13	75	143	78	283 ✓	87	57	100+
1810822	4597	5.13	75	143	78	283 ✓	87	57	100+
1810823	4597	5.13	75	143	78	283 ✓	87	57	100+
1810824	4597	5.13	75	143	78	283 ✓	87	57	100+
1810854	4597	5.15	73	123	85	327	80	69	100+
1810855	4597	5.15	73	123	85	327	80	69	100+
1810856	4597	5.15	73	123	85	327	80	69	100+
1810857	4597	5.15	73	123	85	327	80	69	100+
1810858	4597	5.15	73	123	85	327	80	69	100+
1810859	4597	5.15	73	123	85	327	80	69	100+
1810862	4597	5.40	76	134	90	365	120	71	100+
1810863	4597	5.40	76	134	90	365	120	71	100+
1810864	4597	5.40	76	134	90	365	120	71	100+
1810875	4597	5.40	76	134	90	365	120	71	100+
1810876	4597	5.40	76	134	90	365	120	71	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1338, dated March 18, 1995

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
1810877	4597	5.40	76	134	90	365	120	71	100+	

LA
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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Post-It™ brand fax transmittal memo 7671

of pages ▶ 15

To <i>Rick Bowen</i>	From
Co.	Co.
Dept.	Phone #
Fax #	Fax #

Re: Purchase Order # 85-503-019
Shipping # E1375, dated March 20, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear A.O.S.
1811553	4597	5.07	57	145	71	287	78	63	100+
1811554	4597	5.07	57	145	71	287	78	63	100+
1811555	4597	5.07	57	145	71	287	78	63	100+
1811557	4597	5.10	55	146	81	309	92	67	100+
1811558	4597	5.10	55	146	81	309	92	67	100+
1811559	4597	5.10	55	146	81	309	92	67	100+
1811563	4597	5.08	60	139	70	348	100	67	100+
1811564	4597	5.08	60	139	70	348	100	67	100+
1811565	4597	5.08	60	139	70	348	100	67	100+
1811567	4597	5.07	57	145	71	287	78	63	100+
1811568	4597	5.07	57	145	71	287	78	63	100+
1811569	4597	5.07	57	145	71	287	78	63	100+
1811576	4597	5.08	60	139	70	348	100	67	100+
1811577	4597	5.08	60	139	70	348	100	67	100+
1811578	4597	5.08	60	139	70	348	100	67	100+
1811581	4597	4.72	57	152	81	292	83	65	100+
1811582	4597	4.72	57	152	81	292	83	65	100+
1811583	4597	4.72	57	152	81	292	83	65	100+
1811589	4597	4.78	57	127	76	287	82	98	100+
1811590	4597	4.78	57	127	76	287	82	98	100+
1811591	4597	4.78	57	127	76	287	82	98	100+
1811593	4597	4.78	57	127	76	287	82	98	100+
1811594	4597	4.78	57	127	76	287	82	98	100+
1811595	4597	4.78	57	127	76	287	82	98	100+
1811604	4597	5.21	64	126	74	308	89	73	100+
1811605	4597	5.21	64	126	74	308	89	73	100+
1811606	4597	5.21	64	126	74	308	89	73	100+
1811608	4597	5.21	64	126	74	308	89	73	100+
1811609	4597	5.21	64	126	74	308	89	73	100+

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1375, dated March 20, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1811704	4597	4.95	58	124	74	272	103	68	100+
1811725	4597	5.20	61	146	70	329	103	76	100+
1811726	4597	5.20	61	146	70	329	103	76	100+
1811727	4597	5.20	61	146	70	329	103	76	100+
1811728	4597	5.01	57	132	67	298	96	65	100+
1811729	4597	5.01	57	132	67	298	96	65	100+
1811730	4597	5.01	57	132	67	298	96	65	100+
1812172	4597	6.20	63	145	66	333	133	117	100+
1812173	4597	6.20	63	145	66	333	133	117	100+
1812174	4597	6.20	63	145	66	333	133	117	100+
1812175	4597	5.12	60	120	73	312	113	86	100+
1812176	4597	5.12	60	120	73	312	113	86	100+
1812177	4597	5.12	60	120	73	312	113	86	100+
9519451	4597	5.28	65	156	75	326	106	78	100+
9519452	4597	5.28	65	156	75	326	106	78	100+
9519453	4597	5.28	65	156	75	326	106	78	100+
9519457	4597	5.32	58	128	72	294	81	76	100+
9519458	4597	5.32	58	128	72	294	81	76	100+
9519459	4597	5.32	58	128	72	294	81	76	100+
9519460	4597	5.01	61	145	74	334	96	70	100+
9519461	4597	5.01	61	145	74	334	96	70	100+
9519462	4597	5.01	61	145	74	334	96	70	100+
9519465	4597	5.28	65	156	75	326	106	78	100+
9519466	4597	5.28	65	156	75	326	106	78	100+
9519467	4597	5.28	65	156	75	326	106	78	100+
9519468	4597	5.18	59	141	66	345	106	77	100+
9519469	4597	5.18	59	141	66	345	106	77	100+
9519470	4597	5.18	59	141	66	345	106	77	100+
9519480	4597	5.18	59	141	66	345	106	77	100+
9519481	4597	5.18	59	141	66	345	106	77	100+

JD
7/13/95

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazelhurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1375, dated March 20, 1995

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.	2 Oz.							
9519482	4597	5.18		59	141	66	345	106	77	100+
9519487	4597	5.11		58	145	74	353	116	60	100+
9519488	4597	5.11		58	145	74	353	116	60	100+
9519489	4597	5.11		58	145	74	353	116	60	100+
9519504	4597	5.11		58	145	74	353	116	60	100+
9519505	4597	5.11		58	145	74	353	116	60	100+
9519506	4597	5.11		58	145	74	353	116	60	100+
9519508	4597	4.95		58	124	74	272	103	68	100+
9519509	4597	4.95		58	124	74	272	103	68	100+
9519510	4597	4.95		58	124	74	272	103	68	100+
9519512	4597	5.20		61	146	70	329	103	76	100+
9519513	4597	5.20		61	146	70	329	103	76	100+
9519514	4597	5.20		61	146	70	329	103	76	100+
9519535	4597	5.27		61	142	69	286	97	76	100+
9519536	4597	5.27		61	142	69	286	97	76	100+
9519537	4597	5.27		61	142	69	286	97	76	100+
9519538	4597	4.83		57	154	74	405	151	63	100+
9519539	4597	4.83		57	154	74	405	151	63	100+
9519540	4597	4.83		57	154	74	405	151	63	100+
9519550	4597	4.93		57	129	67	305	97	73	100+
9519551	4597	4.93		57	129	67	305	97	73	100+
9519552	4597	4.93		57	129	67	305	97	73	100+
9519553	4597	4.72		57	152	81	292	83	65	100+
9519554	4597	4.72		57	152	81	292	83	65	100+
9519555	4597	4.72		57	152	81	292	83	65	100+
9519556	4597	5.01		57	132	67	298	96	65	100+
9519557	4597	5.01		57	132	67	298	96	65	100+
9519558	4597	5.01		57	132	67	298	96	65	100+
9519566	4597	4.84		56	135	70	282	82	78	100+
9519567	4597	4.84		56	135	70	282	82	78	100+

9519553
7/13/95

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TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1375, dated March 20, 1995

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
9519568	4597	4.84	56	135	70	282	82	78	100+	
9519569	4597	5.01	61	145	74	334	96	70	100+	
9519570	4597	5.01	61	145	74	334	96	70	100+	
9519571	4597	5.01	61	145	74	334	96	70	100+	

Handwritten signature
7/13/95

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Hazlehurst, Georgia 31539-0451

April 26, 1995

Akzo Nobel Geosynthetics Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-503-019
Shipping # E1375, dated March 20, 1995

Piece		Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
1811610	4597	5.21	64	126	74	308	89	73	100+	
1811611	4597	5.10	55	146	81	309	92	67	100+	
1811612	4597	5.10	55	146	81	309	92	67	100+	
1811613	4597	5.10	55	146	81	309	92	67	100+	
1811624	4597	4.75	55	128	68	287	102	70	100+	
1811625	4597	4.75	55	128	68	287	102	70	100+	
1811626	4597	4.75	55	128	68	287	102	70	100+	
1811631	4597	4.75	55	128	68	287	102	70	100+	
1811632	4597	4.75	55	128	68	287	102	70	100+	
1811633	4597	4.75	55	128	68	287	102	70	100+	
1811639	4597	4.90	55	135	68	354	115	105	100+	
1811640	4597	4.90	55	135	68	354	115	105	100+	
1811641	4597	4.90	55	135	68	354	115	105	100+	
1811678	4597	5.32	58	128	72	294	81	76	100+	
1811679	4597	5.32	58	128	72	294	81	76	100+	
1811680	4597	5.32	58	128	72	294	81	76	100+	
1811681	4597	4.84	56	135	70	282	82	78	100+	
1811682	4597	4.84	56	135	70	282	82	78	100+	
1811683	4597	4.84	56	135	70	282	82	78	100+	
1811684	4597	4.83	57	154	74	405	151	63	100+	
1811685	4597	4.83	57	154	74	405	151	63	100+	
1811686	4597	4.83	57	154	74	405	151	63	100+	
1811687	4597	4.90	55	135	68	354	115	105	100+	
1811688	4597	4.90	55	135	68	354	115	105	100+	
1811689	4597	4.90	55	135	68	354	115	105	100+	
1811699	4597	5.27	61	142	69	286	97	76	100+	
1811700	4597	5.27	61	142	69	286	97	76	100+	
1811701	4597	5.27	61	142	69	286	97	76	100+	
1811702	4597	4.95	58	124	74	272	103	68	100+	
1811703	4597	4.95	58	124	74	272	103	68	100+	

Handwritten signature and date:
4/13/95

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 27, 1994

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-404011

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # I0837, dated April 26, 1994, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll</u>	
		<u>Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	300	310
Puncture, lbs.	ASTM-D-4833 (Modi)	90	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, ** (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell
Quality Control Manager
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 27, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # CAROLYN

Shipping # H0369, dated April 18, 1994

Piece	Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd. 2 Oz.							
1584980	4597	5.02	61	152	70	335	90	65	100+
1584982	4597	5.02	61	152	70	335	90	65	100+
1584983	4597	5.02	61	152	70	335	90	65	100+
1584985	4597	5.00	57	152	69	343	97	58	100+
1584986	4597	5.00	57	152	69	343	97	58	100+
1584987	4597	5.00	57	152	69	343	97	58	100+
1585050	4597	5.00	57	152	69	343	97	58	100+
1585051	4597	5.00	57	152	69	343	97	58	100+
1585052	4597	5.00	57	152	69	343	97	58	100+
1585054	4597	4.93	61	150	68	321	94	70	100+
1585055	4597	4.93	61	150	68	321	94	70	100+
1585056	4597	4.93	61	150	68	321	94	70	100+
1585058	4597	4.93	61	150	68	321	94	70	100+
1585059	4597	4.93	61	150	68	321	94	70	100+
1585060	4597	4.93	61	150	68	321	94	70	100+
1585135	4597	4.94	59	150	63	290	92	64	100+
1585136	4597	4.94	59	150	63	290	92	64	100+
1585137	4597	4.94	59	150	63	290	92	64	100+
1585152	4597	4.94	59	150	63	290	92	64	100+
1585153	4597	4.94	59	150	63	290	92	64	100+
1585154	4597	4.94	59	150	63	290	92	64	100+
1585185	4597	5.30	64	146	72	330	101	69	100+
1585186	4597	5.30	64	146	72	330	101	69	100+
1585187	4597	5.30	64	146	72	330	101	69	100+
1585195	4597	5.30	64	146	72	330	101	69	100+
1585196	4597	5.30	64	146	72	330	101	69	100+
1585197	4597	5.30	64	146	72	330	101	69	100+
1585208	4597	5.30	64	146	72	330	101	69	100+
1585209	4597	5.30	64	146	72	330	101	69	100+
1585210	4597	5.30	64	146	72	330	101	69	100+

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BY AMOCO FABRICS COMPANY

5/26 → 6/1

Sheet1

disregard the first 2 digits (170)

4215

Amoco

Amoco Roll #

ROLL #	DATE	45" ROLL	45" CHIPS#	45 CHIP PROD	45" SHIP#	45" FAB#	47" ROLL	47" CHIP#	47CHIP PROD	47" SHIP#	47" FAB#
50526901	5/26/95	50554010	4714-4-9	10462N	E1395	101811468	50506014	4714-4-9	10462N	E1375	101811689
50526902	5/26/95	50504013	4714-4-9	10462N	E1395	101811468	50506018	4714-4-9	10462N	E1375	101811558
50526903	5/26/95	50506022	4714-4-9	10462N	E1375	109519457	50506018	4714-4-9	10462N	E1375	101811558
50526904	5/26/95	50504026	4714-4-9	10462N	E1395	101810498	50504019	544243	10262N	E1375	101811681
50526905	5/26/95	50504011	4714-4-9	10462N	E1395	101811468	50506025	4714-4-9	10462N	E1375	109519487
50526906	5/26/95	50508056	4714-4-9	10462N	E1338	101810378	50506017	4714-4-9	10462N	E1375	101811558
50526907	5/26/95	50504003	4714-4-9	10462N	M1096	101599010	50506010	4714-4-9	10462N	E1375	101811557
50526908	5/26/95	50504015	4714-4-9	10462N	E1395	101811356	50506012	4714-4-9	10462N	E1375	101811557
50526909	5/26/95	50503030	4714-4-9	10462N	M1096	101648522	50506009	4714-4-9	10462N	E1375	101811557
50526910	5/26/95	50504002	4714-4-9	10462N	M1096	101599059	50506011	4714-4-9	10462N	E1375	101811557
50526911	5/26/95	50503032	4714-4-9	10462N	M1096	101648522	50506008	4714-4-9	10462N	E1375	101811557
50527901	5/27/95	50503025	4714-4-9	10462N	E1338	101810646	50506013	4714-4-9	10462N	E1375	101811689
50527902	5/27/95	50503028	4714-4-9	10462N	E1338	101810646	50511053	4714-4-9	10462N	E1375	109519536
50527903	5/27/95	50503029	4714-4-9	10462N	M1096	101648522	50511055	4714-4-9	10462N	E1375	109519554
50527904	5/27/95	50503033	4714-4-9	10462N	M1096	101599059	50506006	4714-4-9	10462N	E1375	109519465
50527905	5/27/95	50503026	4714-4-9	10462N	E1338	101810646	50511054	4714-4-9	10462N	E1375	109519554
50527906	5/27/95	50503023	4714-4-9	10462N	E1338	101810814	50511056	4714-4-9	10462N	E1375	109519554
50528901	5/28/95	50503022	4714-4-9	10462N	E1338	101810814	50511058	4714-4-9	10462N	E1375	101811569
50528902	5/28/95	50503031	4714-4-9	10462N	M1096	101648522	50506003	4714-4-9	10462N	E1375	109519451
50528903	5/28/95	50503021	4714-4-9	10462N	E1338	101810814	50511051	4714-4-9	10462N	E1375	109519536
50528904	5/28/95	50503014	4714-4-9	10462N	E1338	101810380	50506007	4714-4-9	10462N	E1375	109519465
50528905	5/28/95	50503020	4714-4-9	10462N	E1338	101810814	50511059	4714-4-9	10462N	E1375	101811569
50528906	5/28/95	50504008	4714-4-9	10462N	E1395	101811441	50505064	4714-4-9	10462N	E1375	109519451
50528907	5/28/95	50510026	4714-4-9	10462N	E1338	101810655	50505061	4714-4-9	10462N	E1375	109519570
50528908	5/28/95	50503018	4714-4-9	10462N	E1395	101811439	50506001	4714-4-9	10462N	E1375	109519451
50528909	5/28/95	50504001	4714-4-9	10462N	M1096	101599059	50505060	4714-4-9	10462N	E1375	101811593
50525910	5/28/95	50510027	4714-4-9	10462N	E1338	101810655	50505065	4714-4-9	10462N	E1375	109519451
5-528911	5/28/95	50508042	4714-4-9	10462N	E1338	101810479	50506004	4714-4-9	10462N	E1375	109519465
50528912	5/28/95	50503013	4714-4-9	10462N	E1338	101810380	50511047	4714-4-9	10462N	E1375	101811700
50528913	5/28/95	50503024	4714-4-9	10462N	E1338	101810814	50511049	4714-4-9	10462N	E1375	109519536
50528914	5/28/95	50503012	4714-4-9	10462N	E1338	101810380	50511062	4714-4-9	10462N	E1375	101811569
50529901	5/29/95	50514064	3439-5-9	10462N	E1395	101810556	50505059	4714-4-9	10462N	E1375	101811593
50529902	5/29/95	50510028	4714-4-9	10462N	E1338	101810655	50506002	4714-4-9	10462N	E1375	109519451
50529903	5/29/95	50514063	3439-5-9	10462N	E1395	101810556	50505044	4714-4-9	10462N	E1375	109519451
50529904	5/29/95	50510029	4714-4-9	10462N	E1338	101810655	50511061	4714-4-9	10462N	E1375	101811569
50529905	5/29/95	50514065	3439-5-9	10462N	E1395	101810556	50511024	4714-4-9	10462N	E1375	109519558
50529906	5/29/95	50509058	4714-4-9	10462N	HO369	101585153	50505062	4714-4-9	10462N	E1375	109519570
50525907	5/29/95	50514066	3439-5-9	10462N	E1395	101810636	50511027	4714-4-9	10462N	E1375	101811591
50529908	5/29/95	50509057	4714-4-9	10462N	HO369	101585153	50505058	4714-4-9	10462N	E1375	101811593
50530901	5/30/95	50509059	4714-4-9	10462N	HO369	101584980	50511031	4714-4-9	10462N	E1375	101811591
50530902	5/30/95	50509062	4714-4-9	10462N	HO369	101584980	50511035	4714-4-9	10462N	E1375	101811568

disregard the first 2 digits (1 & 0)

Sheet1

Amoco
Ship #.

Amoco
Roll #

4215 Roll #

50530903	5/30/95	50509063	4714-4-9	10462N	E1338	101810425	50511023	4714-4-9	10462N	E1375	109519556
50530904	5/30/95	50509056	4714-4-9	10462N	H0369	101585153	50505063	4714-4-9	10462N	E1375	109519570
50530905	5/30/95	50509061	4714-4-9	10462N	H0369	101584980	50511025	4714-4-9	10462N	E1375	109519558
50530906	5/30/95	50509060	4714-4-9	10462N	H0369	101584980	50505058	4714-4-9	10462N	E1375	101811593
50530907	5/30/95	50514059	3439-5-9	10462N	E1395	101811409	50511032	4714-4-9	10462N	E1375	101811568
50530908	5/30/95	50514060	3439-5-9	10462N	E1395	101811409	50511040	4714-4-9	10462N	E1375	101812173
50530909	5/30/95	50514061	3439-5-9	10462N	E1395	101810556	50511038	4714-4-9	10462N	E1375	101812173
50530910	5/30/95	50514062	3439-5-9	10462N	E1395	101810556	50511037	4714-4-9	10462N	E1375	101812173
50530911	5/30/95	50513066	3439-5-9	10462N	E1338	101810718	50511034	4714-4-9	10462N	E1375	101811568
50530912	5/30/95	50514058	3439-5-9	10462N	E1395	101811409	50511041	4714-4-9	10462N	E1375	101811727
50530913	5/30/95	50514057	3439-5-9	10462N	E1395	101811409	50512009	3439-5-9	10462N	E1375	101811685
50530914	5/30/95	50513061	3439-5-9	10462N	E1338	101810736	50505050	4714-4-9	10462N	E1375	101811612
50530915	5/30/95	50513060	3439-5-9	10462N	E1338	101810736	50505051	4714-4-9	10462N	E1375	101811612
50530916	5/30/95	50509064	4714-4-9	10462N	E1338	101810425	50511039	4714-4-9	10462N	E1375	101812173
50530917	5/30/95	50513020	3439-5-9	10462N	M1096	101648654	50512010	3439-5-9	10462N	E1375	101811685
50530918	5/30/95	50513062	3439-5-9	10462N	E1338	101810736	50512011	3439-5-9	10462N	E1375	101811595
50531901	5/31/95	50513063	3439-5-9	10462N	E1338	101810736	50505054	4714-4-9	10462N	E1375	109519571
50531902	5/31/95	50513058	3439-5-9	10462N	E1395	101811090	50505048	4714-4-9	10462N	E1375	109519551
50531903	5/31/95	50513059	3439-5-9	10462N	E1338	101810736	50505042	4714-4-9	10462N	E1375	109519451
50531904	5/31/95	50513064	3439-5-9	10462N	E1338	101810718	50512016	3439-5-9	10462N	E1375	101811641
50531905	5/31/95	50513065	3439-5-9	10462N	E1338	101810718	50505049	4714-4-9	10462N	E1375	101811612
50531906	5/31/95	50513022	3439-5-9	10462N	M1096	101648654	50512012	3439-5-9	10462N	E1375	101811595
50531907	5/31/95	50513024	3439-5-9	10462N	E1338	101810790	50505038	4714-4-9	10462N	E1375	109519539
50531908	5/31/95	50513056	3439-5-9	10462N	E1395	101811090	50505037	4714-4-9	10462N	E1375	109519539
50531909	5/31/95	50513057	3439-5-9	10462N	E1395	101811090	50505052	4714-4-9	10462N	E1375	101811612
50531910	5/31/95	50513023	3439-5-9	10462N	E1338	101810790	50505039	4714-4-9	10462N	E1375	109519539
50531911	5/31/95	50509054	4714-4-9	10462N	H0369	101585209	50505053	4714-4-9	10462N	E1375	109519571
50531912	5/31/95	50509053	4714-4-9	10462N	H0369	101585209	50505040	4714-4-9	10462N	E1375	109519539
50531913	5/31/95	50418015	3145-5-9	10462N	E1338	101810648	50505035	4714-4-9	10462N	E1375	109519539
50531914	5/31/95	50418016	3145-5-9	10462N	E1338	101810648	50505036	4714-4-9	10462N	E1375	109519539
50531915	5/31/95	50418011	3145-5-9	10462N	E1338	101810642	50505034	4714-4-9	10462N	E1375	109519539
50531916	5/31/95	50513021	3145-5-9	10462N	E1395	101811050	50513067	3439-5-9	10462N	E1375	101810718
50531917	5/31/95	50418013	3145-5-9	10462N	E1338	101810648	50505032	3439-5-9	10462N	E1375	109519539
50531918	5/31/95	50418018	3145-5-9	10462N	E1395	101811050	50511026	3439-5-9	10462N	E1375	109519556
50531919	5/31/95	50513025	3439-5-9	10462N	E1338	101810790	50414027	544243	10262N	E1375	101811567
50531920	5/31/95	50418012	3145-5-9	10462N	E1338	101810642	50414048	544243	10262N	E1375	101811555
50531921	5/31/95	50418014	3145-5-9	10462N	E1338	101810648	50415025	554843	10062N	E1375	101811624
50531922	5/31/95	50513055	3439-5-9	10462N	E1395	101811090	50415026	554843	10062N	E1375	101811624
50601901	6/1/95	50513052	3439-5-9	10462N	E1395	101811114	50416017	554843	10062N	E1375	101811608
50601902	6/1/95	50513053	3439-5-9	10462N	E1395	101811114	50415040	554843	10062N	E1375	101811553
50601903	6/1/95	50513050	3439-5-9	10462N	E1395	101811114	50414028	544243	10262N	E1375	101811567
50601904	6/1/95	50513051	3439-5-9	10462N	E1395	101811114	50414049	544243	10262N	E1375	101811555
50601905	6/1/95	50513049	3439-5-9	10462N	E1395	101811072	50416004	554843	10062N	E1375	101811631
50601906	6/1/95	50513045	3439-5-9	10462N	E1395	101811072	50512029	3439-5-9	10462N	E1375	101811590

6/2-

Sheet1

disregard the first

4215

Amoco

Amoco Roll#

ROLL #	DATE	45" ROLL	45" CHIPS#	45 CHIP PROD	45" SHIP#	45" FAB#	47" ROLL	47" CHIP#	47CHIP PROD	47" SHIP#	47" FAB#
50602901	6/2/95	50513047	3439-5-9	10462N	E1395	101811072	50512031	3439-5-9	10462N	E1375	101811590
50602902	6/2/95	50513007	3439-5-9	10462N	E1338	101810459	50512033	3439-5-9	10462N	E1375	101811590
50602903	6/2/95	50513041	3439-5-9	10462N	E1395	101811089	50507024	4714-4-9	10462N	E1375	109519481
50602904	6/2/95	50514021	3439-5-9	10462N	E1338	101810741	50507026	4714-4-9	10462N	E1375	109519481
50602905	6/2/95	50513040	3439-5-9	10462N	E1338	101810855	50507023	4714-4-9	10462N	E1375	109519558
50602906	6/2/95	50509050	4714-4-9	10462N	H0369	101585209	50512030	3439-5-9	10462N	E1375	101811590
50602907	6/2/95	50509055	4714-4-9	10462N	H0369	101585153	50511029	4714-4-9	10462N	E1375	101811591
50602908	6/2/95	50504050	4714-4-9	10462N	E1395	101811411	50506005	4714-4-9	10462N	E1375	109519465
50602909	6/2/95	50513033	3439-5-9	10462N	E1338	101810812	50506023	4714-4-9	10462N	E1375	109519457
50602910	6/2/95	50504022	4714-4-9	10462N	E1395	101810634	50505045	4714-4-9	10462N	E1375	109519551
50602911	6/2/95	50503019	4714-4-9	10462N	E1395	101811439	50505033	4714-4-9	10462N	E1375	109519539
50602912	6/2/95	50503010	4714-4-9	10462N	E1338	101810719	50506047	4714-4-9	10462N	E1375	109519568
50603901	6/3/95	50503011	4714-4-9	10462N	E1338	101810719	50507009	4714-4-9	10462N	E1375	109519504
50603902	6/3/95	50504009	4714-4-9	10462N	E1395	101811468	50511028	4714-4-9	10462N	E1375	101811591
50603903	6/3/95	50505021	4714-4-9	10462N	E1395	101811387	50508016	4714-4-9	10462N	E1375	109519468
50603904	6/3/95	50513006	3439-5-9	10462N	E1338	101810459	50508003	4714-4-9	10462N	E1375	101811704
50603905	6/3/95	50509049	4714-4-9	10462N	E1338	101810383	50507025	4714-4-9	10462N	E1375	109519481
50603906	6/3/95	50509046	4714-4-9	10462N	E1338	101810723	50511043	4714-4-9	10462N	E1375	101811727
50604901	6/4/95	50509042	4714-4-9	10462N	E1338	101810723	50603010	3439-5-9	10462N	I1712	101837045
50604902	6/4/95	50509048	4714-4-9	10462N	E1338	101810383	50604035	3439-5-9	10462N	I1712	101837300
50604903	6/4/95	50513029	3439-5-9	10462N	E1338	101810806	50604033	3439-5-9	10462N	I1712	101837300
50605901	6/5/95	50418043	3145-5-9	10462N	E1338	101810214	50507018	4714-4-9	10462N	E1375	109519506
50605902	6/5/95	50509044	4714-4-9	10462N	E1338	101810723	50604058	3439-5-9	10462N	I1712	101836956
50605903	6/5/95	50509045	4714-4-9	10462N	E1338	101810723	50604036	3439-5-9	10462N	I1712	101837255
50605904	6/5/95	50513031	3439-5-9	10462N	E1338	101810806	50604055	3439-5-9	10462N	I1712	101837044
50605905	6/5/95	50509043	4714-4-9	10462N	E1338	101810723	50604057	3439-5-9	10462N	I1712	101836956
50605906	6/5/95	50513016	3439-5-9	10462N	E1338	101810776	50604056	3439-5-9	10462N	I1712	101837044
50605907	6/5/95	50513017	3439-5-9	10462N	M1096	101648654	50510056	4714-4-9	10462N	E1375	101811728
50605908	6/5/95	50513019	3439-5-9	10462N	M1096	101648654	50604037	3439-5-9	10462N	I1712	101837255
50605909	6/5/95	50513014	3439-5-9	10462N	E1338	101810776	50604034	3439-5-9	10462N	I1712	101837300
50605910	6/5/95	50513018	3439-5-9	10462N	M1096	101648654	50604053	3439-5-9	10462N	I1712	101837317
50605911	6/5/95	50513005	3439-5-9	10462N	E1338	101810459	50605017	3439-5-9	10462N	I1712	101837365
50605912	6/5/95	50513004	3439-5-9	10462N	E1338	101810877	50605013	3439-5-9	10462N	I1712	101837299
50605913	6/5/95	50509002	4714-4-9	10462N	E1338	101810379	50605034	3439-5-9	10462N	I1712	101837130
50605914	6/5/95	50513013	3439-5-9	10462N	E1338	101810811	50605016	3439-5-9	10462N	I1712	101837365
50606901	6/6/95	50513011	3439-5-9	10462N	E1338	101810811	50606006	3439-5-9	10462N	I1712	101837319
50606902	6/6/95	50512067	3439-5-9	10462N	E1338	101810647	50606005	3439-5-9	10462N	I1712	101837206
50606903	6/6/95	50512063	3439-5-9	10462N	E1338	101810742	50605018	3439-5-9	10462N	I1712	101837365
50606904	6/6/95	50513010	3439-5-9	10462N	E1338	101810811	50606007	3439-5-9	10462N	I1712	101837319
50606905	6/6/95	50513015	3439-5-9	10462N	E1338	101810776	50605020	3439-5-9	10462N	I1712	101837365
50606906	6/6/95	50512064	3439-5-9	10462N	E1338	101810647	50604032	3439-5-9	10462N	I1712	101837300



AKZO NOBEL

Geosynthetics

ENKANET™

ENKANET 4215 SPECIFICATIONS
East Northport Landfill Closure, Huntington, NY

STANDARD Product DIMENSIONS and WEIGHTS

- **THICKNESS with FABRIC (inches) Typical** 0.4
- **Total WEIGHT (oz/yd²) Typical** 25.5
- **Core WEIGHT (oz/yd²) Typical** 17.0
- **Core WIDTH (inches)** 78
- **Roll LENGTH (feet)** 320
- **Gross Roll Weight (lbs)** 378
- **Area per ROLL (yd²)** 231
- **Core POLYMER:** High Density Polyethylene, 0.5% by wt. of Carbon Black

HYDRAULIC TRANSMISSIVITY m²/sec ASTM D4716 [SEE CURVES ON REVERSE SIDE]

GEOTEXTILE FABRIC PROPERTIES	PROCEDURE	FML side MARV*	SOIL side MARV*
WEIGHT (oz/yd ²)	ASTM D3776	4.0	3.2
GRAB STRENGTH (lbs)	ASTM D4632	120	125
GRAB ELONGATION (%)	ASTM D4632	50	38
TRAPEZOIDAL TEAR (lbs)	ASTM D4533	45	38
PUNCTURE RESISTANCE (lbs)	ASTM D4833	75	30
MULLEN BURST (psi)	ASTM D3786	250	130
AOS (US series, sieve # or mm)	ASTM D4751	70 (#)	0.190 (mm)
FLOW RATE (gpm/ft ²)	ASTM D4491	75	—
PERMITTIVITY (sec ⁻¹)	ASTM D4491	1.4	2.1
FABRIC POLYMER		Polypropylene	PA6 & PET
FABRIC COLOR		Black	Gray

*MARV = Minimum Average Roll Value which represents the industry standard 95% confidence level

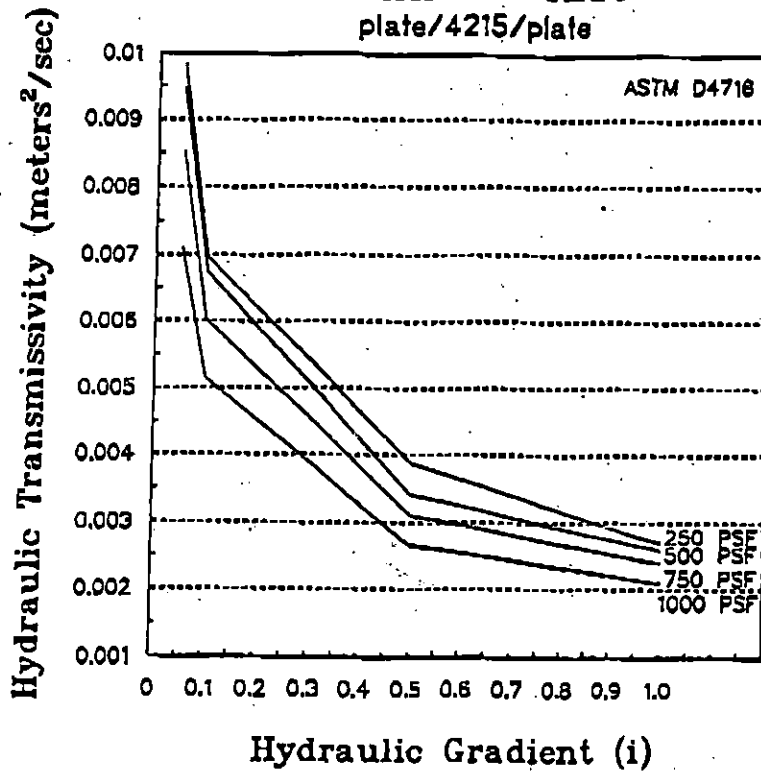
**MARV recommended by GeoSynetics as per letter of 4 May 1995

EN4215-6-INT
 5/3/93

Akzo Nobel Geosynthetics Company
 Suite 518, Ridgely Business Center
 Ridgely Court
 P.O. Box 7245
 Asheville, NC 28802
 Telephone (704) 665-5050
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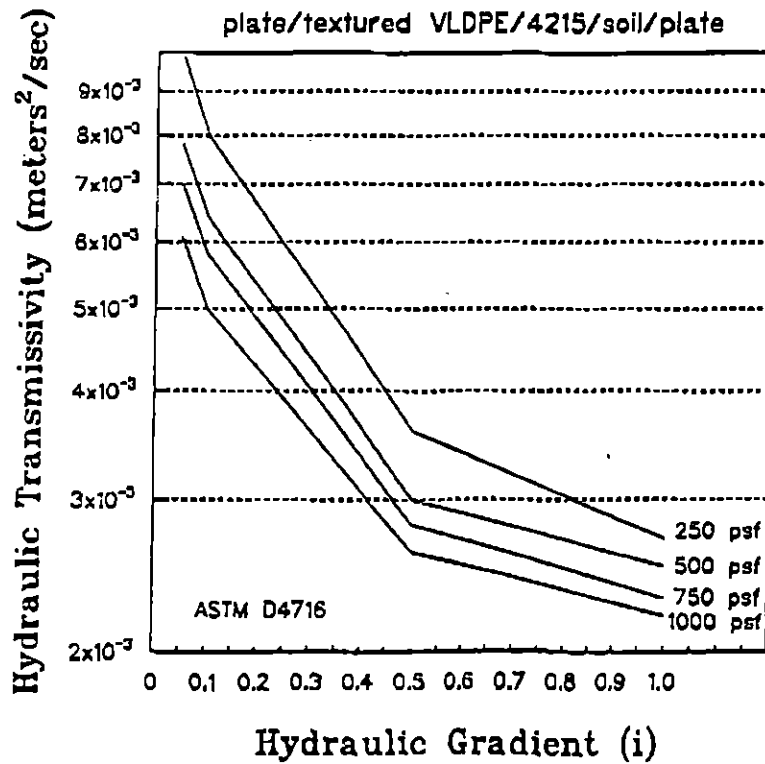
ENKANET 4215

plate/4215/plate



ENKANET 4215

plate/textured VLDPE/4215/soil/plate



NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 28th day of April, 1995.

Joanne W. Gatlin
Notary Public

My Commission expires May 8, 1996.

RECEIVED
MAY 95



Geosynthetics

April 28, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Certification for Amoco Style 4597 Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Enclosed are the Amoco Style 4597 factory laboratory results and their respective letter of certification for Shipping # E1395 and M1096. The Amoco Style 4597 is currently used on one face of Akzo Nobel's Enkanet 4215-102-0000. Since Amoco does not use batch or lot numbers, all reference to their product will be discussed in terms of shipping numbers. In the future, all Akzo Nobel Letters of Certification for finished product (of Enkanet 4215-102-0000), will list the actual Amoco Style 4597 Shipping Number (from which geotextile rolls of Style 45097 were withdrawn from inventory) and used in the production of each roll of finished Enkanet 4215-102-0000.

This shipment of Amoco 4597 as per these certification letters meets the "revised" Minimum Roll Average Values listed in the project specifications. It is my understanding that Amoco now has to certify to the "revised" Minimum Roll Average Values of 75 pounds for puncture and 250 psi for mullen burst.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-017.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Date: April 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 504241
Manifest No.: 50428010

ROLL(S) TESTED per MLN 504241

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50424903	0.432	26.1	78.5
50424904	0.427	25.7	78.5
50424905	0.444	26.5	79.0
Average	0.433	26.1	78.7
Max. Value	0.444	26.5	79.0
Min. Value	0.427	25.7	78.5
Std. Dev.	0.007	0.4	0.3

All Samples are taken in accordance with ASTM D4354

-----Single Width Source Rolls of Enkanet 4015-----							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50424901	5105	50412033	10262N/544243	M1096	50413032	10262N/544243	E1375
50424902	5105	50411007	10262N/544243	E1338	50413033	10262N/544243	E1375
50424903	5105	50411006	10262N/544243	E1338	50414026	10262N/544243	E1375
50424904	5105	50412034	10262N/544243	M1096	50414029	10262N/544243	E1375
50424905	5105	50412031	10262N/544243	M1096	50415004	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-18.nyc

Akzo Nobel Geosynthetics Company
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Fax (704) 665-5009



Geosynthetics

Date: April 28, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 504261
Manifest No.: 5042810

ROLL(S) TESTED per MLN 504261

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50426902	0.431	26.8	79.0
50426907	0.420	26.1	78.5
50426910	0.428	26.3	77.5
Average	0.426	26.4	78.3
Max. Value	0.431	26.8	79.0
Min. Value	0.420	26.1	77.5
Std. Dev.	0.006	0.4	0.8

All Samples are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50426901	5102	50412029	10262N/544243	M1096	50413010	10262N/544243	E1375
50426902	5102	50412032	10262N/544243	M1096	50413009	10262N/544243	E1375
50426903	5102	50416025	10062N/554843	E1338	50413012	10262N/544243	E1375
50426904	5102	50412030	10262N/544243	M1096	50413008	10262N/544243	E1375
50426905	5102	50412024	10262N/544243	M1096	50413017	10262N/544243	E1375
50426906	5102	50412026	10262N/544243	M1096	50413016	10262N/544243	E1375
50426907	5102	50412027	10262N/544243	M1096	50413014	10262N/544243	E1375
50426908	5102	50412019	10262N/544243	E1395	50413013	10262N/544243	E1375
50426909	5102	50412020	10262N/544243	E1395	50413021	10262N/544243	E1375
50426910	5102	50412028	10262N/544243	M1096	50413022	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-19.nyc

* returned to AKZO

Akzo Nobel Geosynthetics Company
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Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

Date: April 28, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 504271
Manifest No.: 5042810

ROLL(S) TESTED per MLN 504271

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50427902	0.425	27.4	78.2
*50427913	0.449	26.1	78.5
50427915	0.440	26.4	79.0
Average	0.438	26.6	78.6
Max. Value	0.449	27.4	79.0
Min. Value	0.425	26.1	78.5
Std. Dev.	0.012	0.7	0.4

All Samples are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50427901	5102	50412023	10262N/544243	E1395	50413024	10262N/544243	E1375
50427902	5102	50412017	10262N/544243	E1395	50413018	10262N/544243	E1375
50427903	5102	50412025	10262N/544243	M1096	50427903	10262N/544243	E1375
50427904	5102	50412016	10262N/544243	E1395	50413025	10262N/544243	E1375
50427905	5102	50412021	10262N/544243	E1395	50413023	10262N/544243	E1375
50427906	5102	50412022	10262N/544243	E1395	50413027	10262N/544243	E1375
50427907	5102	50412018	10262N/544243	E1395	50415049	10062N/554843	E1375
50427908	5102	50415044	10062N/554843	E1395	50416009	10062N/554843	E1375
50427909	5102	50412013	10262N/544243	E1395	50415045	10062N/554843	E1375
50427910	5102	50412012	10262N/544243	E1395	50415046	10062N/554843	E1375
50427911	5102	50412015	10262N/544243	E1395	50415051	10062N/554843	E1375
50427912	5102	50412014	10262N/544243	E1395	50415055	10062N/554843	E1375
50427914	5102	50412005	10262N/544243	E1395	50415050	10062N/554843	E1375
50427915	5102	50412008	10262N/544243	E1395	50415053	10062N/554843	E1375
50427916	5102	50412002	10262N/544243	E1395	50415052	10062N/554843	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-21.nyc

* not present in inventory as of 15/5

Akzo Nobel Geosynthetics Company
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Geosynthetics

April 28, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Certifications for Colback ND120 Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

On April 24, 1995, 15 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50424003.

A Sample of Colback ND 120 from (Lot #5105) supplied on the Enkanet 4215-102-0000 for these 15 rolls was sent to GeoSyntec Consultants in Boca Raton, Florida for physical property testing. Enclosed are the results of the conformance testing conducted by GeoSyntec for your review and comparison with the Colback typical values listed in the project specifications (mistakenly identified as minimums by the specification writer).

Lot #5105 of Colback ND120 will also be used on some future finished rolls of Enkanet 4215.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-020.nyc

Handwritten initials and date:
RD
4/13/95

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Telex/fax (704) 665-5009



GEOSYNTec CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Alzo Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTec JOB NO.: FLQ5881

CLIENT ID: ColbackND120/10T # 5105
DATE TESTED: 04/27/95

INDIVIDUAL SPECIMENS										SUMMARY RESULTS					
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
120.1	120.7	118.1	122.3	124.3	117.8	115.4	120.1	114.0	118.4	MASS PER UNIT AREA (ASTM D3776)	g/m ²	119.1	3.08		
3.5	3.6	3.5	3.6	3.7	3.5	3.4	3.5	3.4	3.5		oz/yd ²	3.5	0.09		
0.58	0.55	0.82	0.51	0.57	0.59	0.55	0.63	0.61	0.62	THICKNESS (ASTM D1777)	mm	0.58	0.039		
22.8	21.7	24.4	20.1	22.4	23.2	21.7	24.8	24.0	24.4		mil	23.0	1.52		
										GRAB TENSILE STRENGTH (ASTM D4632)	lb				
172.2	207.0	177.7	174.2	190.7	187.0	203.7	186.2	168.0	167.7	RD		183.4	14.02		
153.5	157.0	164.2	151.0	167.7	144.7	163.2	161.7	165.5	155.7	XD		158.4	7.30		
										GRAB ELONGATION (ASTM D4632)	%				
48.3	54.3	55.7	55.0	55.0	47.3	57.0	52.0	50.0	54.0	RD		52.9	3.31		
50.7	46.3	53.0	50.0	53.3	47.0	52.3	48.7	47.3	57.3	XD		50.6	3.45		
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
57.1	51.9	63.8	50.1	58.2	54.9	64.1	46.3	49.1	69.3	RD		56.5	7.47		
40.6	54.2	49.8	47.0	53.0	48.3	60.5	48.1	51.0	57.5	XD		51.0	5.66		
										MULLEN BURST STRENGTH (ASTM D3786)	psi	173	15.4		
183	185	139	173	183	190	181	161	173	161	PUNCTURE STRENGTH (ASTM D4833)	lb	63.3	6.36		
73.2	66.0	55.3	61.3	58.3	59.9	68.8	73.0	58.5	60.0	APPARENT OPENING SIZE (ASTM D4751)	mm	0.283	0.0153		
0.262	0.279	0.278	0.297	0.299							sieve no.*	50	N/A		
50	50	50	50	50						CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	3.235	0.0764		
3.181	3.343	3.234	3.181							FLOW RATE (ASTM D4491)	gal/min ft ²	238.2	5.81		
234.2	246.1	238.1	234.2												

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS ROLL DIRECTION

* THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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Geosynthetics

May 5, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Dear Mr. Brix:

On May 5, 1995, 25 rolls of Enkanet Type 4215-102-0000 were shipped to you under Manifest Number 50505007.

Attached is the Certificate of Analysis from the Manufacturer of the resin, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10462N, lot number 4714-4-9 used in the production of one roll of Enkanet Type 4215-102-0000 listed under Manifest Number 50505007.

You've already received the resin certifications for the lot numbers used in the production of the remaining rolls.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-027.nyc

Akzo Nobel Geosynthetics Company
Suite 316 Ridgfield Business Center
Ridgfield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: 704, 665, 5000
Telex: 41 665 5000

Dow U.S.A.

The Dow Chemical Company
2301 N. Brazosport Blvd.
Freeport, Texas 77541-3257

DATE: MAY 05, 1995
FROM: DOW CHEMICAL USA - LOUISIANA DIVISION
TO: DAVE MILLER FAX (413) 5628039

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED TO
GENERAL POLYMERS

LOCATION	WARE MA
DOW NO.	7190002
CUST ORDER NO.	14490
SHIPPED	012095
VIA	GACX 73654
ROUTE	MP/ESTL/CR/PALMR/MCER
TYPE	POLYETHYLENE 10462N HIGH DENSITY
NET WEIGHT	190700
LOT	94121047149
PACKAGE LOT NO.	QP 4714-4-9
MELT INDEX	10.57
DENSITY	.9628

MIKE NEWSOM/LA
DOW CHEMICAL USA - LOUISIANA DIVISION
POLYETHYLENE C
PLAQUEMINE, LA

NORTH CAROLINA

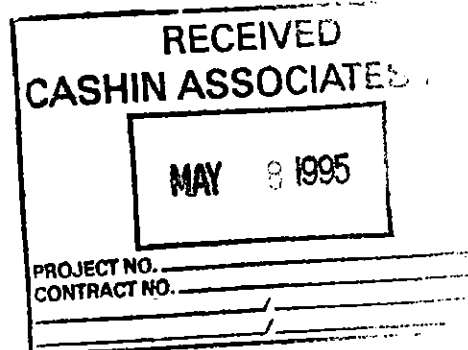
BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 5TH day of MAY, 1995.

Joanne W. Gatlin
Notary Public

My Commission expires May 8, 1996.



RECEIVED
MAY 8 '95
[Signature]



May 5, 1995

Geosynthetics

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Laboratory Conformance Results for Colback Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Attached please find the laboratory conformance results conducted on Colback ND120 by GeoSyntec Consultants, Boca Raton, Florida.

These lots (#5145, #5153, #5107, #5113) meet the revised Minimum Roll Average Values project specifications for the nonwoven, heat-bonded geotextile recommended by Mr. Cargill in his letter dated May 4, 1995 addressed to Mr. Gladysz of Cashin Associates, P.C.

Only Lot #5145 has been used on finished rolls of Enkanet 4215-102-0000 already shipped to the site. The remaining lots will be used for future shipments of Enkanet 4215. Please note that all Letters of Certification from Akzo Nobel include the Colback lot # that was used for each finished roll of Enkanet 4215-102-0000 shipped to the project site.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-028.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telex: 704 665 5009



GEOSYNTEC CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: *Alco Nobel Geosynthetics Co.*
CONTACT: *Mr. Rick Bowen*
GEOSYNTEC JOB NO.: *FLQ5881*

CLIENT ID: *Colback RD120/LOT # 5145*
DATE TESTED: *05/01/95*

INDIVIDUAL SPECIMENS										SUMMARY RESULTS				
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC. PASS/FAIL
112.9	112.5	120.6	117.5	122.8	118.0	124.6	121.5	120.6	103.9	MASS PER UNIT AREA (ASTM D3776)	g/m ²	117.5	6.17	
3.3	3.3	3.6	3.5	3.6	3.5	3.7	3.6	3.6	3.1		oz/yd ²	3.5	0.18	
0.53	0.53	0.50	0.55	0.51	0.56	0.61	0.55	0.52	0.57	THICKNESS (ASTM D1777)	cm	0.54	0.032	
20.9	20.9	19.7	21.7	20.1	22.0	24.0	21.7	20.5	22.4		mil	21.4	1.27	
										GRAB TENSILE STRENGTH (ASTM D4632)	lb			
144.7	193.8	170.5	189.2	190.1	166.8	167.8	191.4	177.9	139.3	RD		173.2	19.32	
147.8	162.3	160.6	169.3	163.5	156.9	142.9	170.3	167.2	163.5	XD		160.4	8.97	
										GRAB ELONGATION (ASTM D4632)	%			
59.0	97.1	74.6	95.0	93.3	78.3	83.0	97.7	90.5	68.0	RD		83.7	13.38	
71.4	77.2	82.8	93.0	90.3	93.7	81.2	79.0	98.4	93.5	XD		86.1	8.88	
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb			
57.2	44.0	58.5	61.9	63.8	57.6	60.5	69.6	54.4	59.1	RD		58.7	6.64	
50.6	55.3	60.0	47.4	56.3	65.3	66.2	59.4	59.1	49.9	XD		57.0	6.32	
										MULLER BURST STRENGTH (ASTM D3786)	psi	144	13.8	
145	150	177	130	140	153	130	140	135	141	PUNCTURE STRENGTH (ASTM D4833)	lb	48.5	5.27	
44.5	54.2	39.3	44.8	51.4	45.3	55.1	53.2	51.7	45.5	APPARENT OPENING SIZE (ASTM D4751)	mm	0.248	0.0218	
0.231	0.234	0.233	0.280	0.261							sieve no.*	60	N/A	
60	60	60	50	50						CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	3.213	0.0823	
3.148	3.148	3.238	3.319							FLOW RATE (ASTM D4491)	gal/min ft ²	236.6	6.02	
231.8	231.8	238.4	244.3											

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS

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**GEOSYNTEC CONSULTANTS**

Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.

CONTACT: Mr. Rick Bowen

GEOSYNTEC JOB NO.: FLQ3881

CLIENT ID:

DATE TESTED:

Colbeck ND120/LOT # 5113

05/01/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
111.8	113.2	113.4	117.8	118.9	110.7	115.4	114.7	113.8	111.4
3.3	3.3	3.3	3.5	3.5	3.5	3.4	3.4	3.4	3.3
0.58	0.49	0.56	0.55	0.56	0.50	0.53	0.52	0.50	0.54
22.8	19.3	22.0	21.7	22.0	19.7	20.9	20.5	19.7	21.3
166.8	172.9	211.4	189.3	196.1	194.9	193.2	197.6	177.8	198.0
130.9	155.1	157.0	151.5	150.2	160.1	163.4	161.4	149.4	186.0
67.1	71.6	98.0	80.9	89.4	90.3	87.8	97.7	82.0	97.5
58.1	68.8	89.5	83.7	78.0	95.7	86.5	83.7	79.9	103.5
53.2	61.2	67.7	57.8	53.9	56.4	60.6	49.5	54.5	63.5
52.1	65.5	63.7	53.1	66.4	49.3	59.8	57.6	64.1	60.0
135	128	123	133	153	115	143	140	142	105
41.0	40.8	51.5	36.0	52.4	51.6	44.5	45.0	36.1	42.1
0.239	0.232	0.203	0.213	0.235					
70	60	70	60	60					
3.227	3.089	3.159	3.275						
237.6	227.4	232.6	241.1						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ²	114.1	2.65		
	oz/yd ²	3.4	0.08		
THICKNESS (ASTM D1771)	mm	0.53	0.030		
	mil	21.0	1.19		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		190.1	13.58		
XD		158.5	15.75		
GRAB ELONGATION (ASTM D4632)	%				
RD		86.2	10.81		
XD		82.7	12.88		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		57.8	5.46		
XD		59.2	6.01		
MULLEN BURST STRENGTH (ASTM D3786)	psi	132	14.3		
PUNCTURE STRENGTH (ASTM D4833)	lb	44.1	6.10		
APPARENT OPENING SIZE (ASTM D4751)	mm	0.224	0.0156		
	sieve no.*	60	N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	3.188	0.0811		
FLOW RATE (ASTM D4491)	gal/min ft ²	234.7	5.97		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

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GEOSYNTEC CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Alcoa Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTEC JOB NO.: FIQ5681

CLIENT ID: Colback ND120 / LOT # 5107
DATE TESTED: 05/01/95

INDIVIDUAL SPECIMENS										SUMMARY RESULTS				
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC. PASS/FAIL
123.2	131.1	123.7	126.5	120.2	119.5	120.4	110.1	120.8	122.1	MASS PER UNIT AREA (ASTM D3776)	g/m ²	121.8	5.41	
3.6	3.9	3.6	3.7	3.5	3.5	3.5	3.2	3.6	3.6		oz/yd ²	3.6	0.16	
0.54	0.59	0.55	0.54	0.54	0.59	0.62	0.57	0.59	0.57	THICKNESS (ASTM D1777)	mm	0.57	0.027	
21.3	23.2	21.7	21.3	21.3	23.2	24.4	22.4	23.2	22.4		mil	22.4	1.08	
										GRAB TENSILE STRENGTH (ASTM D4632)	lb			
154.8	176.2	212.9	169.6	182.2	143.7	19.5	211.7	207.5	170.1	RD		164.8	56.25	
137.1	149.5	147.0	146.8	159.9	149.3	164.6	157.4	154.7	153.9	XD		152.0	7.81	
										GRAB ELONGATION (ASTM D4632)	%			
63.7	81.5	92.1	75.5	88.3	66.0	95.6	100.6	108.0	87.3	RD		86.2	13.89	
81.6	83.7	85.3	84.3	93.2	88.6	97.5	96.2	93.8	96.3	XD		90.1	6.02	
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb			
53.9	60.2	56.0	50.9	65.8	55.8	68.7	47.8	54.1	67.8	RD		58.1	7.21	
53.6	52.9	53.1	63.0	54.7	71.2	56.6	55.6	51.2	64.8	XD		57.7	6.48	
										MULLEN BURST STRENGTH (ASTM D3786)	psi	128	11.3	
140	120	109	139	130	119	130	131	145	119	PUNCTURE STRENGTH (ASTM D4833)	lb	508	3.32	
47.6	49.5	45.9	48.5	50.4	54.3	57.4	51.9	50.7	51.6	APPARENT OPENING SIZE (ASTM D4751)	mm	0.204	0.0070	
0.199	0.195	0.205	0.207	0.213							sieve no.*	70	N/A	
70	70	70	70	60						CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	3.131	0.1813	
3.028	2.953	3.181	3.363							FLOW RATE (ASTM D4491)	gal/min ft ²	230.8	13.34	
223.0	217.4	234.2	247.6											

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

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GEOSYNTEC CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Alzo Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bourn
GEOSYNTEC JOB NO: FLO5881

CLIENT ID: Colback ND120/LOT # 5153
DATE TESTED: 05/01/95

TOTAL P.05

INDIVIDUAL SPECIMENS										SUMMARY RESULTS				
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC. PASS/FAIL
123.5	107.2	115.8	109.9	104.8	119.1	112.7	115.8	123.0	112.5	MASS PER UNIT AREA (ASTM D3776)	g/m ²	114.4	6.26	
3.6	3.2	3.4	3.2	3.1	3.5	3.3	3.4	3.6	3.3		oz/yd ²	3.4	0.18	
										THICKNESS (ASTM D1777)	mm	0.55	0.030	
0.59	0.52	0.58	0.55	0.53	0.57	0.49	0.53	0.54	0.55		mil	21.5	1.18	
23.2	20.5	22.8	21.7	20.9	22.4	19.3	20.9	21.3	21.7					
										GRAB TENSILE STRENGTH (ASTM D4632)	lb			
										RD		179.8	17.32	
179.5	169.5	158.7	169.2	158.2	192.9	185.9	180.8	187.7	215.8	XD		153.9	14.42	
156.7	162.2	148.4	170.6	138.3	135.8	151.8	135.2	174.5	165.6					
										GRAB ELONGATION (ASTM D4632)	%			
										RD		82.8	11.59	
83.0	76.7	67.7	73.9	68.1	79.9	90.5	94.7	92.2	101.5	XD		80.8	10.24	
84.0	85.7	84.0	87.3	67.8	72.9	80.2	61.7	94.4	89.1					
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb			
										RD		58.3	7.19	
68.3	45.9	51.3	66.7	64.4	56.4	53.9	60.7	54.0	61.0	XD		54.2	5.39	
50.9	49.8	56.5	49.2	60.0	59.7	50.0	47.0	56.7	62.0					
										MULLIN BURST STRENGTH (ASTM D3786)	psi	139	20.1	
129	143	113	165	173	139	137	111	151	131					
										PUNCTURE STRENGTH (ASTM D4833)	lb	48.7	9.40	
63.4	45.8	39.8	54.6	37.5	39.2	63.1	49.7	50.4	43.3					
										APPARENT OPENING SIZE (ASTM D4751)	mm	0.237	0.0067	
0.237	0.247	0.231	0.231	0.240							sieve no.*	60	N/A	
60	60	60	60	60										
										CONSTANT HEAD PERMEABILITY (ASTM D4491)	1/s	3.227	0.0318	
3.195	3.212	3.269	3.232							FLOW RATE (ASTM D4491)	gal/min ft ²	237.6	2.33	
235.3	236.5	240.7	238.0											

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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Geosynthetics

Date: May 5, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505041
Manifest No.: 50505007

ROLL(S) TESTED per MLN 505041

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50504902	0.426	26.6	79.0
Average	0.426	26.6	79.0
Max. Value	0.426	26.6	79.0
Min. Value	0.426	26.6	79.0
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50504901	5102	50411037	10262N/544243	E1395	50415008	10062N/554843	E1375
50504902	5102	50503017	10462N/4714-4-9	E1395	50415010	10062N/554843	E1375
50504903	5102	50411031	10262N/544243	E1395	50415007	10062N/554843	E1375
50504905	5102	50411035	10262N/544243	E1395	50414060	10262N/544243	E1375
50504907	5102	50411032	10262N/544243	E1395	50415042	10062N/554843	E1375
50504908	5102	50411030	10262N/544243	E1338	50414025	10262N/544243	E1375
50504909	5102	50411036	10262N/544243	E1395	50415047	10062N/554843	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-25.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5050



Date: May 5, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505051
Manifest No.: 50505007

ROLL(S) TESTED per MLN 505051

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50505902	0.428	26.5	78.2
Average	0.428	26.5	78.2
Max. Value	0.428	26.5	78.2
Min. Value	0.428	26.5	78.2
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50505901	5102	50411028	10262N/544243	E1338	50415043	10062N/554843	E1375
50505902	5102	50411029	10262N/544243	E1338	50415005	10062N/1011733	E1375
50505903	5102	50411021	10262N/544243	E1338	50414066	10062N/1011733	E1375
50505904	5102	50411020	10262N/544243	E1338	50415002	10062N/1011733	E1375
50505905	5102	50411026	10262N/544243	E1338	50414065	10062N/1011733	E1375
50505906	5102	50411027	10262N/544243	E1338	50414063	10062N/1011733	E1375
50505907	5102	50411024	10262N/544243	E1338	50414064	10062N/1011733	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-26.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 655-5050
Telex: (704) 565-5000



Geosynthetics

Date: May 5, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505021
Manifest No.: 50505007

ROLL(S) TESTED per MLN 505021

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
*50502904	0.441	26.5	78.2
Average	0.441	26.5	78.2
Max. Value	0.441	26.5	78.2
Min. Value	0.441	26.5	78.2
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

-----Single Width Source Rolls of Enkanet 4015-----							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50502901	5102	50411044	10262N/544243	E1395	50415036	10062N/554843	E1375
50502902	5102	50411049	10262N/544243	E1395	50415034	10062N/554843	E1375
50502903	5102	50411048	10262N/544243	E1395	50415033	10062N/554843	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-23.nyc

*not present in inventory as of 15/5

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Facsimile: (704) 665-5000



Date: May 5, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505011
Manifest No.: 50505007

ROLL(S) TESTED per MLN 505011

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50501901	0.451	26.8	78.0
50501905	0.424	26.8	78.8
Average	0.438	26.8	78.4
Max. Value	0.451	26.8	78.8
Min. Value	0.424	26.8	78.0
Std. Dev.	0.019	0.0	0.6

All Samples are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50501901	5145	50412010	10262N/544243	E1338	50415057	10062N/554843	E1375
50501902	5145	50412006	10262N/544243	E1375	50415029	10062N/554843	E1375
50501904	5145	50411050	10262N/544243	E1395	50415030	10062N/554843	E1375
50501905	5102	50411045	10262N/544243	E1395	50415031	10062N/554843	E1375
50501906	5102	50412011	10262N/544243	E1338	50416005	10062N/554843	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-22.nyc

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Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 1,49
Asheville, NC 28802
Telephone: 704/255-5050
Telex: 555 5004



Geosynthetics

Date: May 5, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505031
Manifest No.: 50505007

ROLL(S) TESTED per MLN 505031

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50503901	0.441	27.0	80.5
Average	0.441	27.0	80.5
Max. Value	0.441	27.0	80.5
Min. Value	0.441	27.0	80.5
Std. Dev.	0.0	0.0	0.0

All Samples are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50503901	5102	50411046	10262N/544243	E1395	50413015	10262N/544243	E1375
50503902	5102	50411041	10262N/544243	E1338	50415038	10262N/544243	E1375
50503903	5102	50411040	10262N/544243	E1375	50415011	10062N/554843	E1338

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-24.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 72-9
Asheville, NC 28802
Telephone: 704 655 5050
Telex: 6121700 5655 5099

NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 10TH day of MAY, 1995.

Joanne W. Gatlin
Notary Public

My Commission expires May 8, 1996.

* **RECEIVED**
17 MAY '95


* NOTE: FAXED COPIES WERE REC'D ON 11 MAY '95.





Geosynthetics

MEMORANDUM

Date: 11 May 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 6

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 29 rolls shipped to you on May 10th under manifest number 50510004. These letters cover rolls shipped from MLN 505071, 505081, 505091, and 505101.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-001.fax

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P O Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665-5009



Geosynthetics

Date: May 10, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505091
Manifest No.: 50510004

ROLL(S) TESTED per MLN 505091

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/vd ²)	ASTM D3774 CORE WIDTH Inches
- 50509902	0.429	27.5	79.0
- 50509906	0.418	26.6	79.0
- 50509914	0.430	26.7	78.5
Average	0.426	26.9	78.8
Max. Value	0.430	27.5	79.0
Min. Value	0.418	26.6	78.5
Std. Dev.	0.007	0.5	0.3

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
- 50509901	5105	50419015	10462N/3139-5-9	E1338	50414053	10262N/544243	E1375
- 50509902	5105	50419024	10462N/3139-5-9	E1338	50414044	10262N/544243	E1375
- 50509903	5105	50419017	10462N/3139-5-9	E1338	50414045	10262N/544243	E1375
- 50509904	5105	50508041	10462N/4714-4-9	E1338	50414052	10262N/544243	E1375
- 50509905	5105	50419020	10462N/3139-5-9	E1338	50414019	10262N/544243	E1375
- 50509906	5105	50503009	10462N/4714-4-9	E1338	50414047	10262N/544243	E1375
- 50509907	5105	50419016	10462N/3139-5-9	E1338	50416020	10062N/554843	E1375
- 50509908	5105	50416043	10062N/554843	M1096	50414046	10262N/544243	E1375
- 50509909	5105	50419012	10462N/3139-5-9	E1338	50416019	10062N/554843	E1375
- 50509910	5105	50419010	10462N/3139-5-9	E1338	50414051	10262N/544243	E1375
- 50509911	5105	50419004	10462N/3139-5-9	E1338	50414050	10262N/544243	E1375
- 50509912	5105	50419008	10462N/3139-5-9	E1338	50416015	10062N/554843	E1375
- 50509913	5105	50419007	10462N/3139-5-9	E1338	50416016	10062N/554843	E1375
- 50509914	5105	50419006	10462N/3139-5-9	E1338	50416013	10062N/554843	E1375
- 50509915	5105	50419014	10462N/3139-5-9	E1338	50416012	10062N/554843	E1375
- 50509916	5105	50419009	10462N/3139-5-9	E1338	50416014	10062N/554843	E1375
- 50509917	5145	50419011	10462N/3139-5-9	E1338	50416011	10062N/554843	E1375
- 50509918	5145	50418063	10462N/3139-5-9	E1338	50414006	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-31.nyc

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Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

Date: May 10, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505071
Manifest No.: 50510004

ROLL(S) TESTED per MLN 505071

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50507901	0.432	26.5	79.5
Average	0.432	26.5	79.5
Max. Value	0.432	26.5	79.5
Min. Value	0.432	26.5	79.5
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50507901	5102	50411025	10262N/544243	E1338	50414067	10062N/1011733	E1375
50507904	5102	50411022	10262N/544243	E1338	50414056	10262N/544243	E1375
50507906	5102	50416037	10062N/554843	E1338	50414058	10262N/544243	E1375
50507907	5102	50416041	10062N/554843	E1338	50415001	10262N/544243	E1375
50507908	5102	50416035	10062N/554843	E1338	50414061	10062N/1011733	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-29A.nyc

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Telephone (704) 665 5000
Telefax (704) 665 5009



Geosynthetics

Date: May 10, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505081
Manifest No.: 50510004

ROLL(S) TESTED per MLN 505081

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50508905	0.440	26.9	78.8
50508911	0.446	26.5	78.0
Average	0.443	26.7	78.4
Max. Value	0.446	26.9	78.8
Min. Value	0.440	26.5	78.0
Std. Dev.	0.004	0.3	0.6

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50508903	5102	50416033	10062N/554843	E1338	50414022	10262N/544243	E1375
50508906	5105	50416027	10062N/554843	E1338	50414020	10262N/544243	E1375
50508910	5105	50416023	10062N/554843	E1338	50414015	10262N/544243	E1375
50508911	5105	50416024	10062N/554843	E1338	50414012	10262N/544243	E1375
50508912	5105	50416021	10062N/554843	E1375	50414009	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-30A.nyc

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Ridgefield Court
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Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665 5009



Date: May 10, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505101
Manifest No.: 50510004

ROLL(S) TESTED per MLN 505101

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50510902	0.422	26.4	78.5
50510904	0.415	26.5	79.0
50510912	0.430	27.3	78.0
Average	0.422	26.7	78.5
Max. Value	0.430	27.3	79.0
Min. Value	0.415	26.4	78.0
Std. Dev.	0.008	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50510901	5145	50418062	10462N/3139-5-9	E1338	50414001	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-033.nyc

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Ridgeland Court
P.O. Box 7249
Asheville, NC 28802
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Telex: (704) 665-5009



Geosynthetics

MEMORANDUM

Date: 12 May 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 6

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls shipped to you on May 12th under manifest number 50512003. These letters cover rolls shipped from MLN 505071, 505081, 505101, and 505111.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-002.fax

* **RECEIVED**
17 MAY 95

* NOTE FAXED COPIES WERE REC'D ON 12 MAY '95

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 12TH day of MAY, 1995.

Joanne W. Gatlin
Notary Public

My Commission expires May 8, 1996.



Geosynthetics

Date: May 12, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505101
Manifest No.: 50512003

ROLL(S) TESTED per MLN 505101

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50510902	0.422	26.4	78.5
50510904	0.415	26.5	79.0
50510912	0.430	27.3	78.0
Average	0.422	26.7	78.5
Max. Value	0.430	27.3	79.0
Min. Value	0.415	26.4	78.0
Std. Dev.	0.008	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50510902	5145	50419001	10462N/3139-5-9	E1338	50413041	10262N/544243	E1375
50510903	5145	50419002	10462N/3139-5-9	E1338	50413042	10262N/544243	E1375
50510904	5145	50505018	10462N/4714-4-9	E1338	50413039	10262N/544243	E1375
50510905	5145	50505019	10462N/4714-4-9	E1395	50413040	10262N/544243	E1375
50510906	5102	50505014	10462N/4714-4-9	E1395	50413043	10262N/544243	E1375
50510907	5102	50505015	10462N/4714-4-9	E1395	50414002	10262N/544243	E1375
50510908	5102	50505029	10462N/4714-4-9	E1395	50508011	10462N/4714-4-9	E1375
50510909	5102	50505030	10462N/4714-4-9	E1395	50508010	10462N/4714-4-9	E1375
50510910	5102	50418058	10462N/4714-4-9	E1395	50508014	10462N/4714-4-9	E1375
50510911	5102	50505024	10462N/3139-5-9	E1338	50508015	10462N/4714-4-9	E1375
50510912	5102	50418060	10462N/3139-5-9	E1338	50506052	10462N/4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-034.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
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Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

Date: May 12, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505111
Manifest No.: 50512003

ROLL(S) TESTED per MLN 505111

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd³)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50511903	0.420	28.1	78.3
50511913	0.406	26.6	78.8
50511917	0.421	26.9	78.0
50511919	0.413	26.9	77.5
Average	0.415	27.1	78.2
Max. Value	0.421	28.1	78.8
Min. Value	0.406	26.6	77.5
Std. Dev.	0.007	0.7	0.5

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50511902	5102	50505023	10462N/4717-4-9	E1395	50414008	10262N/544243	E1375
50511903	5102	50418059	10462N/3139-5-9	E1338	50506051	10462N/4714-4-9	E1375
50511904	5102	50418070	10462N/3139-5-9	E1338	50510049	10462N/4714-4-9	E1375
50511905	5102	50418057	10462N/3139-5-9	E1338	50506054	10462N/4714-4-9	E1375
50511906	5102	50418056	10462N/3139-5-9	E1338	50506053	10462N/4714-4-9	E1375
50511908	5102	50508035	10462N/4714-4-9	E1338	50510034	10462N/4714-4-9	E1375
50511910	5102	50505031	10462N/4714-4-9	E1395	50506065	10462N/4714-4-9	E1375
50511911	5102	50505025	10462N/4714-4-9	E1395	50510030	10462N/4714-4-9	E1375
50511912	5102	50505022	10462N/4714-4-9	E1395	50506055	10462N/4714-4-9	E1375
50511913	5102	50510023	10462N/4714-4-9	E1395	50506056	10462N/4714-4-9	E1375
50511914	5102	50505017	10462N/4714-4-9	E1395	50506063	10462N/4714-4-9	E1375
50511915	5102	50505026	10462N/4714-4-9	E1395	50506064	10462N/4714-4-9	E1375

* not present on site as of 17/5

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-038.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgfield Business Center
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Asheville NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

Date: May 12, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505071
Manifest No.: 50512003

ROLL(S) TESTED per MLN 505071

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50507901	0.432	26.5	79.5
Average	0.432	26.5	79.5
Max. Value	0.432	26.5	79.5
Min. Value	0.432	26.5	79.5
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50507903	5102	50416042	10062N/554843	E1338	50414062	10062N/1011733	E1375
50507905	5102	50411023	10262N/544243	E1338	50414057	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-36.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: May 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505081
Manifest No.: 50512003

ROLL(S) TESTED per MLN 505081

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50508905	0.440	26.9	78.8
50508911	0.446	26.5	78.0
Average	0.443	26.7	78.4
Max. Value	0.446	26.9	78.8
Min. Value	0.440	26.5	78.0
Std. Dev.	0.004	0.3	0.6

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Amoco					
		Roll number	PE Type/Lot	Ship #	Roll Number	PE Type/Lot	Ship #
50508904	5105	50416034	10062N/554843	E1338	50414021	10262N/544243	E1375
50508905	5105	50503005	10462N/4714-4-9	E1338	50414018	10262N/544243	E1375
50508907	5105	50416036	10062N/554843	E1338	50414054	10262N/544243	E1375
50508908	5105	50416030	10062N/554843	E1338	50414017	10262N/544243	E1375
50508909	5105	50503004	10462N/4714-4-9	E1338	50414014	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-35.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 15th day of May, 1995.

Joanne W. Gatlin
Notary Public

My Commission expires May 8, 1996.

*replaces Faxed copy received
15 May 95

* **RECEIVED**
24 MAY 95



Geosynthetics

May 15, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Dear Mr. Brix:

Attached are two Certificates of Analysis from the resin manufacturer, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10462N, lot numbers 3139-5-9 and 3145-5-9.

Lot number 3139-5-9 (HDPE resin type 10462N) was used in the production of some of the rolls of Enkanet Type 4215-102-0000 in Akzo Nobel Manufacturing Lot Number 505111 and lot number 3145-5-9 (HDPE resin type 10462N) was used in the production of some of the rolls of Enkanet Type 4215-102-0000 listed under Manufacturing Lot Numbers 505121, 505131, and 505141 and shipped to you under Manifest Number 50515003.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R32.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Dow U.S.A.

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

MARCH 07, 1995

From: DOW CHEMICAL - Louisiana Division

To: GAIL KUHN

1-404-447-1329

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <3566387>

LOCATION	DORAVILLE	GA	30340
DOW NO.	7233736		
CUST ORDER NO	66122		
SHIPPED	030795		
VIA	ACFX 68524		
ROUTE	MP/NEWOR/NS		
TYPE	HDPE 10462N		
GROSS	256,200		
TARE	65,300		
NET	190,900		
LOTS	95013131459		
PKG. LOT NO.	QP 3145-5-9		
MELT INDEX	9.84		
DENSITY	.9620		

Mike Newsom
MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA

Post-It [®] brand fax transmittal memo 7671		# of pages » 2
To Rick Bowen	From Tina Helms	
Co. ARZO Nobel	Co. General Polymers	
Dept.	Phone # 704/391-6840	
Fax # 704/665-5043	Fax #	


Dow U.S.A.

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

MARCH 31, 1995

From: DOW CHEMICAL - Louisiana Division

To: GAIL KUHN

4-404-447-1329

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS (3566387)

LOCATION	DORAVILLE	GA	30340
DOW NO.	7282470		
CUST ORDER NO	66367		
SHIPPED	033195		
VIA	TRUCK		
ROUTE	YLSI/MEDH		
TYPE	HOPE 10462N		
GROSS	16,048		
TARE	616		
NET	15,432		
LOTS	95013131399		
PKG. LOT NO.	QP 3139-5-9		
MELT INDEX	10.00		
DENSITY	.9619		

MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA



Date: May 15, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505111
Manifest No.: 50515003

ROLL(S) TESTED per MLN 505111

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/vd ²)	ASTM D3774 CORE WIDTH Inches
50511903	0.420	28.1	78.3
50511913	0.406	26.6	78.8
50511917	0.421	26.9	78.0
50511919	0.413	26.9	77.5
Average	0.415	27.1	78.2
Max. Value	0.421	28.1	78.8
Min. Value	0.406	26.6	77.5
Std. Dev.	0.007	0.7	0.5

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50511901	5102	50418061	10462N/3139-5-9	E1338	50414007	10262N/544243	E1375
50511907	5102	50505027	10462N/4714-4-9	E1338	50510031	10462N/4714-4-9	E1375
50511909	5102	50505028	10462N/4714-4-9	E1395	50510032	10462N/4714-4-9	E1375
50511916	5102	50505020	10462N/4714-4-9	E1395	50506066	10462N/4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-039.nyc



* rolls not present on site as of
24/5

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telex: 7041 565 5009



Date: May 15, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505121
Manifest No.: 50515003

ROLL(S) TESTED per MLN 505121

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50512902	0.416	27.1	78.0
Average	0.416	27.1	78.0
Max. Value	0.416	27.1	78.0
Min. Value	0.416	27.1	78.0
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50512901	5102	50505012	10462N/4714-4-9	E1395	50506060	10462N/4714-4-9	E1375
50512902	5102	50505013	10462N/4717-4-9	E1395	50506046	10462N/4714-4-9	E1375
50512903	5102	50505008	10462N/4714-4-9	E1395	50512025	10462N/3439-5-9	E1375
50512904	5102	50505006	10462N/4714-4-9	E1395	50512026	10462N/3439-5-9	E1375
50512905	5102	50505009	10462N/4714-4-9	E1338	50508006	10462N/4714-4-9	E1375
50512906	5102	50505004	10462N/4714-4-9	E1338	50508001	10462N/4714-4-9	E1375
50512907	5102	50417001	10462N/3145-5-9	E1338	50512027	10462N/3439-5-9	E1375
50512908	5102	50416049	10062N/554843	M1096	50507066	10462N/4714-4-9	E1375
50512909	5102	50416046	10062N/554843	E1338	50507067	10462N/4714-4-9	E1375
50512910	5102	50416047	10062N/554843	E1338	50415021	10062N/554843	E1375
50512911	5102	50416048	10062N/554843	E1338	50415022	10062N/554843	E1375
50512912	5102	50416045	10062N/554843	M1096	50508002	10462N/4714-4-9	E1375
50512913	5102	50505005	10462N/4714-4-9	E1338	50415024	10462N/4714-4-9	E1375
50512914	5102	50417005	10462N/3145-5-9	E1338	50415028	10462N/4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-040.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telefax: (704) 665-5009



Date: May 15, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505131
Manifest No.: 50515003

ROLL(S) TESTED per MLN 505131

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50513901	0.413	27.2	78.3
Average	0.413	27.2	78.3
Max. Value	0.413	27.2	78.3
Min. Value	0.413	27.2	78.3
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50513902	5102	50417004	10462N/3145-5-9	E1338	50507045	10462N/4714-4-9	E1375
50513903	5102	50504066	10462N/4714-4-9	E1338	50415027	10062N/554843	E1375
50513904	5102	50504067	10462N/4714-4-9	E1338	50507046	10462N/4714-4-9	E1375
50513906	5102	50505003	10462N/4714-4-9	E1338	50507054	10462N/4714-4-9	E1375
50513907	5102	50504065	10462N/4714-4-9	E1338	50507059	10462N/4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-043.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telex: (704) 665-5050



Date: May 15, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505141
Manifest No.: 50515003

ROLL(S) TESTED per MLN 505141

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50514902	0.408	27.1	79.0
50514909	0.412	26.8	78.3
Average	0.410	27.0	78.7
Max. Value	0.412	27.1	79.0
Min. Value	0.408	26.8	78.3
Std. Dev.	0.003	0.2	0.5

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50514901	5102	50504064	10462N/4714-4-9	E1338	50507063	10462N/4714-4-9	E1375
50514903	5102	50417035	10462N/3145-5-9	E1338	50507050	10462N/4714-4-9	E1375
50514904	5102	50418050	10462N/3145-5-9	E1338	50507039	10462N/4714-4-9	E1375
50514906	5102	50418052	10462N/3145-5-9	E1338	50507062	10462N/4714-4-9	E1375
50514907	5102	50419018	10462N/3145-5-9	E1338	50412050	10262N/544243	E1375
50514908	5102	50418048	10462N/3145-5-9	E1338	50412049	10262N/544243	E1375
50514909	5102	50418047	10462N/3145-5-9	E1338	50412047	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-044.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5000
Telefax (704) 665-5000

NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 16th day of MAY, 1995.

Joanne W. Gatlin
Notary Public

My Commission expires May 8, 1996.

FILED
24 MAY 95
D



Geosynthetics

May 16, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Dear Mr. Brix:

Attached is a Certificate of Analysis from the resin manufacturer, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10462N, lot number 3439-5-9.

Lot number 3439-5-9 was used in the production of some of the rolls of Enkanet Type 4215-102-0000 in Akzo Nobel Manufacturing Lot Number 505121 and shipped to you under Manifest Number 50515003.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R33.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

**Dow U.S.A.**

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

Post-it® Fax Note	7671	Date	5/16	# of pages	1
ATTN: NICK BOWEN		From	ED		
AIRTEL NOBEL		Co.	G. P. N. C.		
Phone # 85-504012 #3		Phone	704-391-6841		
Fax # 704-665-5243		Fax #			

ision

1-704-391-6826

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <8751752>

LOCATION	CHARLOTTE	NC	28230
DOW NO.	7264616		
CUST ORDER NO	010508		
SHIPPED	041795		
VIA	DOWX 21039		
ROUTE	MP/NEWOR/CSXT		
TYPE	HDPE 10462N		
GROSS	298,100		
TARE	65,800		
NET	192,300		
LOTS	95032134399		
PKG. LOT NO.	QP 3439-5-9		
MELT INDEX	10.40		
DENSITY	.9629		

THE ABOVE LOT(S) MEET THE DOW SALES SPECIFICATION
FOR THE TYPE INDICATED.

MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA

NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 18th day of May, 1995.

Jo Anne W. Gatlin
Notary Public

My Commission expires May 8, 1996.

* replaces Faxed copies received
on 18 May 95

*
RECEIVED
24 May 95




Geosynthetics

MEMORANDUM

Date: 18 May 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 4

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls shipped to you on May 18th under manifest number 50517009. These letters cover rolls shipped from MLN 505151, 505161, and 505171.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-005.fax

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: May 18, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505151
Manifest No.: 50517009

ROLL(S) TESTED per MLN 505151

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50515902	0.414	27.4	78.3
50515914	0.438	28.0	78.0
50515917	0.406	26.8	78.0
Average	0.419	27.4	78.1
Max. Value	0.438	28.0	78.3
Min. Value	0.406	26.8	78.0
Std. Dev.	0.017	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Amoco					
		Roll number	PE Type/Lot	Ship #	Roll Number	PE Type/Lot	Ship #
50515902	5102	50417032	10462N/3145-5-9	E1338	50512007	10462N/3439-5-9	E1375
50515903	5102	50417024	10462N/3145-5-9	E1338	50512002	10462N/3439-5-9	E1375
50515904	5102	50417023	10462N/3145-5-9	E1338	50512003	10462N/3439-5-9	E1375
50515905	5102	50418025	10462N/3145-5-9	E1395	50412044	10262N/544243	E1375
50515906	5102	50417015	10462N/3145-5-9	E1338	50512008	10462N/3439-5-9	E1375
50515907	5102	50417014	10462N/3145-5-9	E1338	50512006	10462N/3439-5-9	E1375
50515908	5102	50416039	10062N/554843	E1338	50512001	10462N/3439-5-9	E1375
50515911	5102	50417027	10462N/3145-5-9	E1338	50512005	10462N/3439-5-9	E1375
50515912	5102	50417028	10462N/3145-5-9	E1338	50511063	10462N/4714-4-9	E1375
50515913	5102	50418051	10462N/3145-5-9	E1338	50511065	10462N/4714-4-9	E1375
50515914	5102	50418006	10462N/3145-5-9	E1338	50415020	10062N/554843	E1375
50515915	5102	50417006	10462N/3145-5-9	E1338	50412043	10262N/544243	E1375
50515916	5102	50418005	10462N/3145-5-9	E1338	50415018	10062N/554843	E1375
50515917	5102	50418054	10462N/3145-5-9	E1338	50412052	10262N/544243	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-046.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5005
Telex: (704) 665-5000



Geosynthetics

Date: May 18, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505161
Manifest No.: 50517009

ROLL(S) TESTED per MLN 505161

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
~50516901	0.425	27.3	78.3
~50516904	0.410	26.5	78.0
Average	0.418	26.9	78.1
Max. Value	0.425	27.3	78.3
Min. Value	0.410	26.5	78.0
Std. Dev.	0.011	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

-----Single Width Source Rolls of Enkanet 4015-----							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Amoco		Amoco		Amoco	
		Roll number	PE Type/Lot	Ship #	Roll Number	PE Type/Lot	Ship #
~50516901	5107	50411001	10262N/544243	E1395	50508013	10462N/4714-4-9	E1375
~50516902	5107	50411017	10262N/544243	E1338	50508012	10462N/4714-4-9	E1375
~50516903	5107	50411002	10262N/544243	E1395	50508009	10462N/4714-4-9	E1375
~50516904	5107	50411033	10262N/544243	E1395	50508008	10462N/4714-4-9	E1375
~50516905	5107	50411034	10262N/544243	E1395	50508018	10462N/4714-4-9	E1375
~50516906	5107	50417003	10462N/3145-5-9	E1338	50508017	10462N/4714-4-9	E1375
~50516907	5107	50417002	10462N/3145-5-9	E1338	50508005	10462N/4714-4-9	E1375
~50516908	5107	50411016	10262N/544243	E1338	50506048	10462N/4714-4-9	E1375
~50516909	5107	50417022	10462N/3145-5-9	E1338	50507065	10462N/4714-4-9	E1375
~50516910	5107	50510002	10462N/4714-4-9	E1338	50508004	10462N/4714-4-9	E1375
~50516911	5107	50418026	10462N/3145-5-9	E1395	50507064	10462N/4714-4-9	E1375
~50516912	5107	50510003	10462N/4714-4-9	E1338	50507060	10462N/4714-4-9	E1375
~50516913	5107	50418046	10462N/3145-5-9	E1338	50506037	10462N/4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-045.nyc

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Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: May 18, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505171
Manifest No.: 50517009

ROLL(S) TESTED per MLN 505171

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50517907	0.411	27.1	78.0
50517909	0.425	27.1	78.0
* 50517912	0.416	27.2	78.3
Average	0.417	27.1	78.1
Max. Value	0.425	27.2	78.3
Min. Value	0.411	27.1	78.0
Std. Dev.	0.007	0.1	0.2

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Amoco					
		Roll number	PE Type/Lot	Ship #	Roll Number	PE Type/Lot	Ship #
50517901	5107	50417029	10462N/3145-5-9	E1338	50412053	10262N/544243	E1375
50517902	5107	50417020	10462N/3145-5-9	E1338	50507061	10462N/4714-4-9	E1375
50517905	5107	50417031	10462N/3145-5-9	E1338	50506043	10462N/4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-047.nyc

* roll not present on site as of 24/5

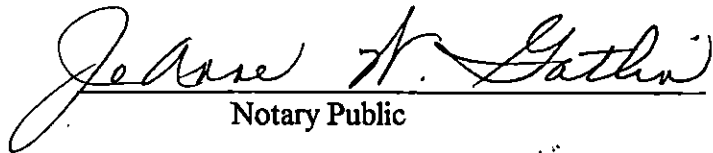
Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 719
Asheville, NC 28802
Phone: 704-255-5010
Fax: 704-255-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 22ND day of MAY, 1995.


Notary Public

My Commission expires May 8, 1996.

*replaces Faxed copy received
22 may

*RECEIVED
24 MAY 95




Date: May 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505171
Manifest No.: 50522004

ROLL(S) TESTED per MLN 505171

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick	Mass/ Unit Area	CORE WIDTH
	Inches	Total (oz/yd ²)	Inches
50517907	0.411	27.1	78.0
50517909	0.425	27.1	78.0
50517912	0.416	27.2	78.3
Average	0.417	27.1	78.1
Max. Value	0.425	27.2	78.3
Min. Value	0.411	27.1	78.0
Std. Dev.	0.007	0.1	0.2

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of	Colback			Amoco			Amoco
Enkanet 4215 Shipped	Lot #	Roll number	PE Type/Lot	Ship #	Roll Number	PE Type/Lot	Ship #
50517907	5107	50417030	10462N/3145-5-9	E1338	50507061	10462N/4714-4-9	E1375
50517908	5107	50417026	10462N/3145-5-9	E1338	50506050	10462N/4714-4-9	E1375
50517909	5107	50419003	10462N/3139-5-9	E1338	50506044	10462N/4714-4-9	E1375
50517910	5107	50509067	10462N/4714-4-9	E1338	50506043	10462N/4714-4-9	E1375
50517911	5107	50417025	10462N/3145-5-9	E1338	50506050	10462N/4714-4-9	E1375

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-050.nyc

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Telex 1704 865 501 5



Date: May 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505181
Manifest No.: 50522004

ROLL(S) TESTED per MLN 505181

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50517902	0.410	26.5	78.0
50517905	0.412	26.8	78.0
50517908	0.401	26.6	78.0
50517915	0.411	27.2	78.8
Average	0.409	26.8	78.2
Max. Value	0.412	27.2	78.8
Min. Value	0.401	26.5	78.0
Std. Dev.	0.005	0.3	0.4

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50518906	5107	50507032	10462N/3145-5-9	E1375	50507032	10462N/4714-4-9	E1375
50518907	5107	50413002	10262N/544243	E1375	50413002	10262N/544243	E1375
50518908	5107	50413004	10462N/3145-5-9	E1375	50413004	10262N/544243	E1375
50518909	5107	50413036	10262N/544243	E1375	50413036	10262N/544243	E1375
50518912	5107	50507047	10462N/3145-5-9	E1375	50507047	10462N/4714-4-9	E1375
50518913	5107	50413020	10462N/3145-5-9	E1375	50413020	10262N/544243	E1375
50518915	5107	50507041	10462N/3145-5-9	E1375	50507041	10462N/4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Teletax (704) 665-5009



Date: May 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505191
Manifest No.: 50522004

ROLL(S) TESTED per MLN 505191

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50519901	0.411	26.7	78.0
50519903	0.406	26.5	78.0
✓ 50519904	0.409	27.0	78.0
50519906	0.413	27.3	78.0
✓ 50519910	0.401	27.0	78.3
50519914	0.414	26.6	78.0
Average	0.409	26.9	78.1
Max. Value	0.414	27.3	78.3
Min. Value	0.401	26.5	78.0
Std. Dev.	0.005	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback			Amoco				Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
✓ 50519902	5107	50417009	10462n	3145-5-9	E1338	50507012	10462n	4714-4-9	E1375
✓ 50519904	5107	50504063	10462n	4714-4-9	E1338	50507016	10462n	4714-4-9	E1375
✓ 50519909	5107	50504060	10462n	4714-4-9	E1395	50507028	10462n	4714-4-9	E1375
✓ 50519910	5107	50417011	10462n	3145-5-9	E1338	50507042	10462n	4714-4-9	E1375
✓ 50519911	5107	50418033	10462n	3145-5-9	E1338	50511001	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-052.nyc

✓ - only roll from page present
on site

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Telex 7043 565 5111



Geosynthetics

Date: May 22, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505201
Manifest No.: 50522004

ROLL(S) TESTED per MLN 505201

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50520904	0.405	27.1	78.0
50520908	0.410	26.3	78.0
Average	0.408	26.7	78.0
Max. Value	0.410	27.1	78.0
Min. Value	0.405	26.3	78.0
Std. Dev.	0.004	0.6	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback					Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Shp #	Roll Number	PE Type	Lot	Shp #
50520901	5107	50509015	10462n	4714-4-9	E1338	50511011	10462n	4714-4-9	E1375
50520902	5107	50509009	10462n	4714-4-9	E1338	50510052	10462n	4714-4-9	E1375
50520903	5107	50509013	10462n	4714-4-9	E1338	50510053	10462n	4714-4-9	E1375
50520904	5113	50418036	10462n	3145-5-9	E1338	50413019	10262n	544243	E1375
50520905	5113	50418032	10462n	3145-5-9	E1338	50510054	10462n	4714-4-9	E1375
50520906	5113	50509007	10462n	4714-4-9	E1338	50510055	10462n	4714-4-9	E1375
50520907	5113	50418035	10462n	3145-5-9	E1338	50507021	10462n	4714-4-9	E1375
50520908	5113	50508054	10462n	4714-4-9	E1338	50507027	10462n	4714-4-9	E1375
50520910	5113	50509012	10462n	4714-4-9	E1338	50510051	10462n	4714-4-9	E1375
50520911	5113	50508046	10462n	4714-4-9	E1338	50510046	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-054.nyc

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Telex (704) 665-5000



Geosynthetics

Date: May 22, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505211
Manifest No.: 50522004

ROLL(S) TESTED per MLN 505211

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50521904	0.410	26.7	78.0
Average	0.410	26.7	78.0
Max. Value	0.410	26.7	78.0
Min. Value	0.410	26.7	78.0
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50521903	5113	50509003	10462n	4714-4-9	E1338	50510037	10462n	4714-4-9	E1375
50521904	5113	50418038	10462n	3145-5-9	E1338	50510041	10462n	4714-4-9	E1375
50521905	5113	50508049	10462n	4714-4-9	E1338	50507020	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-055.nyc

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Asheville, NC 28802
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Geosynthetics

MEMORANDUM

Date: 24 May 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 10

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls shipped to you on May 24 under manifest number 50523007. These letters cover rolls shipped from MLN 505111, 505171, 505181, 505191, 505201, 505211, 505221, and 505231.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-007.fax

*RECEIVED
26 May 1995

mz

*replaces faxed copy received 24 May

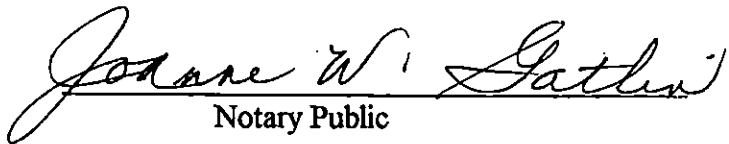
Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5041
Fax: (704) 665-5043

NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 24th day of May, 1995.


Notary Public

My Commission expires May 8, 1996.



Date: May 24, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505111
Manifest No.: 50523007

ROLL(S) TESTED per MLN 505111

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50511903	0.420	28.1	78.3
50511913	0.406	26.6	78.8
50511917	0.421	26.9	78.0
50511919	0.413	26.9	77.5
Average	0.415	27.1	78.2
Max. Value	0.421	28.1	78.8
Min. Value	0.406	26.6	77.5
Std. Dev.	0.007	0.7	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width				Source Rolls of Enkanet 4015			
Roll Number	Colback	Amoco				Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50511919	5102	50505011	10462n	4714-4-9	E1395	50506058	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-056.nyc

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Suite 318 Ridgefield Business Center
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P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telefax: (704) 665-5009



Date: May 24, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505171
Manifest No.: 50523007

ROLL(S) TESTED per MLN 505171

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50517907	0.411	27.1	78.0
50517909	0.425	27.1	78.0
50517912 *	0.416	27.2	78.3
Average	0.417	27.1	78.1
Max. Value	0.425	27.2	78.3
Min. Value	0.411	27.1	78.0
Std. Dev.	0.007	0.1	0.2

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015							
Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50517912	5107	50410010	10262N/544243	E1338	50506044	10462N/4714-4-9	E1375

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-058.nyc

* not present in M.I. as of 25/5

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Date: May 24, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505181
Manifest No.: 50523007

ROLL(S) TESTED per MLN 505181

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50517902	0.410	26.5	78.0
50517905	0.412	26.8	78.0
50517908	0.401	26.6	78.0
50517915 ✱	0.411	27.2	78.8
Average	0.409	26.8	78.2
Max. Value	0.412	27.2	78.8
Min. Value	0.401	26.5	78.0
Std. Dev.	0.005	0.3	0.4

All Sample(s) are taken in accordance with ASTM D4354

Single Width Source Rolls of Enkanet 4015

Roll Number of Enkanet 4215 Shipped	Colback Lot #	Roll number	PE Type/Lot	Amoco Ship #	Roll Number	PE Type/Lot	Amoco Ship #
50518903	5107	50507057	10262N/544243	E1375	50507057	10462N/4714-4-9	E1375
50518904	5107	50507048	10262N/544243	E1375	50507048	10462N/4714-4-9	E1375
50518905	5107	50507056	10262N/544243	E1375	50507056	10462N/4714-4-9	E1375
50518911	5107	50413038	10462N/3145-5-9	E1375	50413038	10262N/544243	E1375

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-057.nyc

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Date: May 24, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505191
Manifest No.: 50523007

ROLL(S) TESTED per MLN 505191

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50519901	0.411	26.7	78.0
50519903 *	0.406	26.5	78.0
50519904	0.409	27.0	78.0
50519906	0.413	27.3	78.0
50519910	0.401	27.0	78.3
50519914	0.414	26.6	78.0
Average	0.409	26.9	78.1
Max. Value	0.414	27.3	78.3
Min. Value	0.401	26.5	78.0
Std. Dev.	0.005	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback			Amoco				Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50519901	5107	50504061	10462n	4714-4-9	E1395	50507044	10462n	4714-4-9	E1375
50519905	5107	50504062	10462n	4714-4-9	E1338	50507055	10462n	4714-4-9	E1375
50519906	5107	50418034	10462n	3145-5-9	E1338	50511010	10462n	4714-4-9	E1375
50519912	5107	50410009	10262n	544243	E1395	50511002	10462n	4714-4-9	E1375
50519913	5107	50418041	10462n	3145-5-9	E1338	50511006	10462n	4714-4-9	E1375
50519914	5107	50509014	10462n	4714-4-9	E1338	50511012	10462n	4714-4-9	E1375

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-063.nyc

* not present in P.I. log
as of 26/5

Akzo Nobel Geosynthetics Company
Suite 518 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Date: May 24, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505201
Manifest No.: 50523007

ROLL(S) TESTED per MLN 505201

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50520904 *	0.405	27.1	78.0
50520908 *	0.410	26.3	78.0
Average	0.408	26.7	78.0
Max. Value	0.410	27.1	78.0
Min. Value	0.405	26.3	78.0
Std. Dev.	0.004	0.6	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco				Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Shp #	Roll Number	PE Type	Lot	Shp #
50520909	5113	50509005	10462n	4714-4-9	E1338	50507017	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-059.nyc

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Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: May 24, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505211
Manifest No.: 50523007

ROLL(S) TESTED per MLN 505211

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50521904 *	0.410	26.7	78.0
Average	0.410	26.7	78.0
Max. Value	0.410	26.7	78.0
Min. Value	0.410	26.7	78.0
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50521907	5113	50508053	10462n	4714-4-9	E1338	50510039	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-065.nyc

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Suite 518, Ridgely Business Center
Ridgely Court
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Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-7009



Date: May 24, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505221
Manifest No.: 50523007

ROLL(S) TESTED per MLN 505221

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50522902	0.414	26.7	78.3
50522909	0.416	27.7	77.5
50522913	0.417	27.4	78.0
Average	0.416	27.3	77.9
Max. Value	0.417	27.7	78.3
Min. Value	0.414	26.7	77.5
Std. Dev.	0.002	0.5	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number Shipped	Colback Lot #	Roll number	PE Type	Lot	Amoco Shp #	Roll Number	PE Type	Lot	Amoco Shp #
50522902	5113	50508048	10462n	4714-4-9	E1338	50510045	10462n	4714-4-9	E1375
50522903	5113	50504053	10462n	4714-4-9	E1338	50507005	10462n	4714-4-9	E1375
50522904	5113	50504059	10462n	4714-4-9	E1395	50510044	10462n	4714-4-9	E1375
50522905	5113	50508055	10462n	4714-4-9	E1338	50510043	10462n	4714-4-9	E1375
50522906	5113	50504052	10462n	4714-4-9	E1338	50506062	10462n	4714-4-9	E1375
50522908	5113	50418028	10462n	3145-5-9	E1395	50507006	10462n	4714-4-9	E1375
50522910	5113	50508051	10462n	4714-4-9	E1338	50507001	10462n	4714-4-9	E1375
50522911	5113	50509017	10462n	4714-4-9	E1338	50507002	10462n	4714-4-9	E1375
50522912	5113	50509066	10462n	4714-4-9	E1338	50506061	10462n	4714-4-9	E1375
50522913	5113	50508052	10462n	4714-4-9	E1338	50506039	10462n	4714-4-9	E1375
50522914	5113	50504049	10462n	4714-4-9	E1395	50506035	10462n	4714-4-9	E1375
50522915	5113	50508050	10462n	4714-4-9	E1338	50506040	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-067.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Arleneville, NC 28802
Telephone (704) 665-5000
Fax (704) 665-5009



Date: May 24, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505231
Manifest No.: 50523007

ROLL(S) TESTED per MLN 505231

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
TESTED	Inches	Total (oz/yd ²)	Inches
50523904	0.411	26.8	78.0
50523909	0.407	27.3	77.8
50523913	0.407	27.0	77.5
Average	0.408	27.0	77.8
Max. Value	0.411	27.3	78.0
Min. Value	0.407	26.8	77.5
Std. Dev.	0.002	0.3	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback			Amoco				Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50523902	5113	50504051	10462n	3145-5-9	E1395	50510036	10462n	4714-4-9	E1375
50523903	5113	50508044	10462n	4714-4-9	E1338	50511003	10462n	4714-4-9	E1375
50523905	5113	50508043	10462n	3145-5-9	E1338	50507013	10462n	4714-4-9	E1375
50523906	5113	50508039	10462n	4714-4-9	E1338	50511007	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-061.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Geosynthetics

MEMORANDUM

Date: 26 May 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

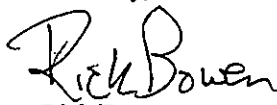
Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls shipped to you on May 26 under manifest number 50525006. These letters cover rolls shipped from MLN 505191, 505211, 505221, 505231, 505241, and 505251.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-008.fax

30/5/95
31 MJ
m2

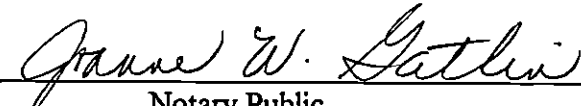
Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, JO ANNE W. GATLIN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 26th day of May, 1995.



Notary Public

My Commission expires May 8, 1996.



Date: May 26, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505191
Manifest No.: 50525006

ROLL(S) TESTED per MLN 505191

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50519901	0.411	26.7	78.0
50519903*	0.406	26.5	78.0
50519904	0.409	27.0	78.0
50519906	0.413	27.3	78.0
50519910	0.401	27.0	78.3
50519914	0.414	26.6	78.0
Average	0.409	26.9	78.1
Max. Value	0.414	27.3	78.3
Min. Value	0.401	26.5	78.0
Std. Dev.	0.005	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
✓ 50519907	5107	50418031	10462n	3145-5-9	E1338	50511009	10462n	4714-4-9	E1375
✓ 50519908	5107	50417010	10462n	3145-5-9	E1338	50511008	10462n	4714-4-9	E1375

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-074.nyc

* not present in material inventory as of
31 / 5

Akzo Nobel Geosynthetics Company
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Asheville, NC 28802
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Telex 7041 665-5009



Geosynthetics

Date: May 26, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505211
Manifest No.: 50525006

ROLL(S) TESTED per MLN 505211

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50521904	0.410	26.7	78.0
Average	0.410	26.7	78.0
Max. Value	0.410	26.7	78.0
Min. Value	0.410	26.7	78.0
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback	Amoco								
Shipped	Lot #	Roll number	PE Type	Lot	Shlp #	Roll Number	PE Type	Lot	Shlp #	
-50521902	5113	50418037	10462n	3145-5-9	E1338	50510050	10462n	4714-4-9	E1375	
-50521906	5113	50418040	10462n	3145-5-9	E1338	50510042	10462n	4714-4-9	E1375	

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-072.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
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Ashburn, NC 28802
Telephone: (704) 665-5050
Fax: (704) 665-5009



Geosynthetics

Date: May 26, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505221
Manifest No.: 50525006

ROLL(S) TESTED per MLN 505221

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50522902	0.414	26.7	78.3
50522909 *	0.416	27.7	77.5
50522913	0.417	27.4	78.0
Average	0.416	27.3	77.9
Max. Value	0.417	27.7	78.3
Min. Value	0.414	26.7	77.5
Std. Dev.	0.002	0.5	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback	Amoco								
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
-50522907	5113	50504056	10462n	4714-4-9	E1338	50507008	10462n	4714-4-9	E1375	

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-070.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 565 5000



Date: May 26, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505231
Manifest No.: 50525006

ROLL(S) TESTED per MLN 505231

ROLL No. TESTED	ASTM D1777 Composite Thick Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50523904 *	0.411	26.8	78.0
50523909	0.407	27.3	77.8
50523913	0.407	27.0	77.5
Average	0.408	27.0	77.8
Max. Value	0.411	27.3	78.0
Min. Value	0.407	26.8	77.5
Std. Dev.	0.002	0.3	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco				Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50523907	5113	50418029	10462n	3145-5-9	E1395	50506068	10462n	4714-4-9	E1375
50523908	5113	50504047	10462n	4714-4-9	M1096	50511021	10462n	4714-4-9	E1375
50523909	5113	50504055	10462n	4714-4-9	E1338	50511022	10462n	4714-4-9	E1375
50523910	5113	50509010	10462n	4714-4-9	E1338	50511016	10462n	4714-4-9	E1375
50523911	5113	50504042	10462n	4714-4-9	E1395	50511015	10462n	4714-4-9	E1375
50523912	5113	50505041	10462n	4714-4-9	E1395	50511019	10462n	4714-4-9	E1375
505239013	5113	50505054	10462n	4714-4-9	E1338	50508029	10462n	4714-4-9	E1375
50523914	5145	50504036	10462n	3145-5-9	E1395	50508025	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-073.nyc

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Telex 17041 565-5009



Geosynthetics

Date: May 26, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505241
Manifest No.: 50525006

ROLL(S) TESTED per MLN 505241

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
-50524902	0.416	27.0	78.2
-50524906	0.418	26.7	78.5
-50524913	0.416	27.4	77.5
-50524915	0.415	27.0	77.5
Average	0.416	27.0	77.9
Max. Value	0.418	27.4	78.5
Min. Value	0.415	26.7	77.5
Std. Dev.	0.001	0.3	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215				Single Width		Source Rolls of Enkanet 4015			
Roll Number Shipped	Colback Lot #	Roll number	PE Type	Lot	Amoco Ship #	Roll Number	PE Type	Lot	Amoco Ship #
-50524901	5145	5050437	10462n	4714-4-9	E1395	50508028	10462n	4714-4-9	E1375
-50524902	5145	50504057	10462n	4714-4-9	E1395	50508030	10462n	4714-4-9	E1375
-50524903	5145	50504035	10462n	4714-4-9	E1395	50508026	10462n	4714-4-9	E1375
-50524904	5145	50504033	10462n	4714-4-9	E1395	50508019	10462n	4714-4-9	E1375
-50524906	5145	50504034	10462n	4714-4-9	E1338	50508023	10462n	4714-4-9	E1375
-50524907	5145	50504046	10462n	4714-4-9	M1096	50511010	10462n	4714-4-9	E1375
-50524908	5145	50504045	10462n	4714-4-9	M1096	50511005	10462n	4714-4-9	E1375
-50524910	5145	50504043	10462n	4714-4-9	M1096	50511017	10462n	4714-4-9	E1375
-50524911	5145	50504031	10462n	4714-4-9	E1395	50511013	10462n	4714-4-9	E1375
-50524912	5145	50504032	10462n	4714-4-9	E1395	50506033	10462n	4714-4-9	E1375
-50524913	5145	50504027	10462n	4714-4-9	E1395	50507004	10462n	4714-4-9	E1375
-50524914	5145	50504028	10462n	4714-4-9	E1395	50508033	10462n	4714-4-9	E1375
-50524915	5107	50504024	10462n	4714-4-9	E1395	50508032	10462n	4714-4-9	E1375
-50524916	5107	50509008	10462n	4714-4-9	E1338	50508031	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-069.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ringfield Business Center
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P.O. Box 72-2
Greenville, NC 29802
Phone: 1-665 5050
Fax: 766 555 5009



Geosynthetics

Date: May 26, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505251
Manifest No.: 50525006

ROLL(S) TESTED per MLN 505251

not rec'd 2/6/95

only roll on pg.

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick.	Mass/ Unit Area	CORE WIDTH
	Inches	Total (oz/yd ²)	Inches
50525905	0.408	27.2	78.0
50525906	0.407	26.2	77.8
50525908	0.403	26.8	78.0
50525910	0.413	26.3	77.8
50525914	0.414	26.8	78.0
Average	0.409	26.7	77.9
Max. Value	0.414	27.2	78.0
Min. Value	0.407	26.2	77.8
Std. Dev.	0.005	0.4	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50525901	5107	50509006	10462n	4714-4-9	E1338	50507011	10462n	4714-4-9	E1375
50525902	5107	50504020	10462n	4714-4-9	E1395	50506032	10462n	4714-4-9	E1375
50525903	5107	50504021	10462n	4714-4-9	E1395	50506031	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-076.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665 5050
Teletax (704) 665 5009



Geosynthetics

MEMORANDUM

Date: 30 May 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 10

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls shipped to you on May 30 under manifest number 50530001. These letters cover rolls shipped from MLN 505251, 505261, 505271, 505281, and 505291.

Also, attached are the Colback Confirmation Results for lot # 5555 and 5066.

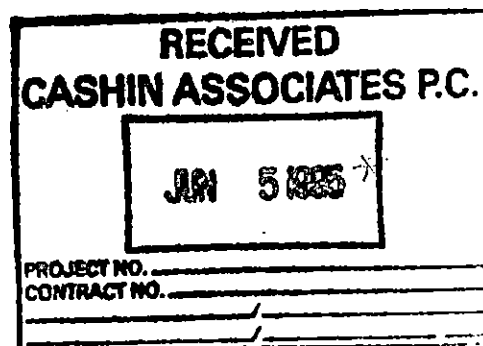
You will receive the hard copies of these results by regular mail.

Sincerely,



Rick Bowen

Brix-009.fax



**Faxed copy rec'd 31/5/95. This copy
replaces Faxed copy.*

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 30TH day of MAY, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: May 30, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505251
Manifest No.: 50530001

ROLL(S) TESTED per MLN 505251

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50525905	0.408	27.2	78.0
50525906	0.407	26.2	77.8
50525908	0.403	26.8	78.0
50525910	0.413	26.3	77.8
50525914	0.414	26.8	78.0
Average	0.409	26.7	77.9
Max. Value	0.414	27.2	78.0
Min. Value	0.407	26.2	77.8
Std. Dev.	0.005	0.4	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50525906	5107	50504016	10462n	4714-4-9	E1395	50506030	10462n	4714-4-9	E1375
50525907	5107	50504030	10462n	4714-4-9	E1395	50508020	10462n	4714-4-9	E1375
50525908	5107	50504014	10462n	4714-4-9	E1395	50506028	10462n	4714-4-9	E1375
50525912	5107	50504005	10462n	4714-4-9	M1096	50506021	10462n	4714-4-9	E1375
50525913	5107	50504025	10462n	4714-4-9	E1395	50506026	10462n	4714-4-9	E1375
50525914	5107	50504018	10462n	4714-4-9	E1395	50506019	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-086.nyc

Akzo Nobel Geosynthetics Company
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Asheville, NC 28802
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Telex (704) 365-5000



Date: May 30, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505261
Manifest No.: 50530001

ROLL(S) TESTED per MLN 505261

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50526904	0.400	26.7	78.0
50526906	0.414	27.6	78.3
50526907	0.408	26.6	78.5
50526911	0.404	26.7	78.3
Average	0.407	26.9	78.3
Max. Value	0.414	27.6	78.5
Min. Value	0.400	26.6	78.0
Std. Dev.	0.006	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco		Amoco		Amoco		Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50526901	5555	50504010	10462n	4714-4-9	E1395	50506014	10462n	4714-4-9	E1375
50526903	5555	50506022	10462n	4714-4-9	E1375	50506016	10462n	4714-4-9	E1375
50526905	5555	50504011	10462n	4714-4-9	E1395	50506025	10462n	4714-4-9	E1375
50526908	5153	50504015	10462n	4714-4-9	E1395	50506012	10462n	4714-4-9	E1375
50526909	5153	50503030	10462n	4714-4-9	M1096	50506009	10462n	4714-4-9	E1375
50526910	5153	50504002	10462n	4714-4-9	M1096	50506011	10462n	4714-4-9	E1375
50526911	5153	50503032	10462n	4714-4-9	M1096	50506008	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-085.nyc

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Geosynthetics

Date: May 30, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505271
Manifest No.: 50530001

ROLL(S) TESTED per MLN 505271

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50527903	0.409	28.6	78.5
Average	0.409	28.6	78.5
Max. Value	0.409	28.6	78.5
Min. Value	0.409	28.6	78.5
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
- 50527901	5153	50503025	10462n	4714-4-9	E1338	50506013	10462n	4714-4-9	E1375
- 50527902	5153	50503028	10462n	4714-4-9	E1338	50511053	10462n	4714-4-9	E1375
- 50527903	5153	50503029	10462n	4714-4-9	M1096	50511055	10462n	4714-4-9	E1375
- 50527904	5153	50503033	10462n	4714-4-9	M1096	50506006	10462n	4714-4-9	E1375
- 50527905	5153	50503026	10462n	4714-4-9	E1338	50511054	10462n	4714-4-9	E1375

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-084.nyc

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Date: May 30, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505281
Manifest No.: 50530001

ROLL(S).TESTED per MLN 505281

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50528902	0.418	29.4	78.0
50528905	0.403	26.9	78.0
50528909	0.404	26.8	77.5
50528913	0.407	26.8	78.0
Average	0.408	27.5	77.9
Max. Value	0.418	29.4	78.0
Min. Value	0.403	26.8	77.5
Std. Dev.	0.007	1.3	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco		Amoco		Amoco		Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50528904	5153	50503014	10462n	4714-4-9	E1338	50506007	10462n	4714-4-9	E1375
50528905	5153	50503020	10462n	4714-4-9	E1338	50511059	10462n	4714-4-9	E1375
50528906	5145	50504008	10462n	4714-4-9	E1395	50505064	10462n	4714-4-9	E1375
50528907	5145	50510026	10462n	4714-4-9	E1338	50505061	10462n	4714-4-9	E1375
50528908	5145	50503018	10462n	4714-4-9	E1395	50506001	10462n	4714-4-9	E1375
50528909	5145	50504001	10462n	4714-4-9	M1096	50505060	10462n	4714-4-9	E1375
50528910	5145	50510027	10462n	4714-4-9	E1338	50505065	10462n	4714-4-9	E1375

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

Date: May 30, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505291
Manifest No.: 50530001

ROLL(S) TESTED per MLN 505291

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50529902	0.403	26.6	78.0
50529906	0.404	26.4	78.0
50529908	0.407	27.5	78.0
Average	0.405	26.8	78.0
Max. Value	0.407	27.5	78.0
Min. Value	0.403	26.4	78.0
Std. Dev.	0.002	0.6	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width			Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50529901	5145	50514064	10462n	3439-5-9	E1395	50505059	10462n	4714-4-9	E1375
50529902	5145	50510028	10462n	4714-4-9	E1338	50506002	10462n	4714-4-9	E1375
50529904	5145	50510029	10462n	4714-4-9	E1338	50511061	10462n	4714-4-9	E1375
50529905	5145	50514065	10462n	3439-5-9	E1395	50511024	10462n	4714-4-9	E1375
50529906	5145	50509058	10462n	4714-4-9	H0369	50505062	10462n	4714-4-9	E1375

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-082.nyc

Akzo Nobel Geosynthetics Company
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May 30, 1995

Geosynthetics

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Laboratory Conformance Results for Colback Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Attached please find the laboratory conformance results conducted on Colback ND120 by GeoSyntec Consultants, Boca Raton, Florida.

These lots (#5555 and #5066) meet the revised Minimum Roll Average Values project specifications for the nonwoven, heat-bonded geotextile recommended by Mr. Cargill in his letter dated May 4, 1995 addressed to Mr. Gladysz of Cashin Associates, P.C.

Only Lot #5555 has been used on finished rolls of Enkanet 4215-102-0000 already shipped to the site. The remaining lot will be used for future shipments of Enkanet 4215. Please note that all Letters of Certification from Akzo Nobel include the Colback lot # that was used for each finished roll of Enkanet 4215-102-0000 shipped to the project site.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-080.nyc

Akzo Nobel Geosynthetics Company
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Asheville, NC 28802
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Telex: 7704 365 5000



GEOSYNTec CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTec JOB NO.: FLQ5881

CLIENT ID: Colback ND120 / LOT # 5066
DATE TESTED: 05/25/95

INDIVIDUAL SPECIMENS									
1	2	3	4	5	6	7	8	9	10
115.6	115.2	113.7	114.6	111.7	116.0	110.4	114.1	115.3	110.8
3.4	3.4	3.3	3.4	3.3	3.4	3.5	3.4	3.4	3.3
0.48	0.46	0.50	0.50	0.46	0.51	0.46	0.49	0.50	0.46
18.9	18.1	19.7	19.7	18.1	20.1	18.1	19.3	19.7	18.1
150.7	174.6	151.0	157.6	149.6	177.8	166.8	161.6	153.5	162.8
122.0	141.2	137.0	140.7	145.8	143.8	145.1	136.3	147.2	151.2
64.3	59.0	59.7	58.0	67.0	70.7	67.3	63.3	55.7	66.3
63.7	65.3	62.7	51.0	67.3	55.3	68.0	75.7	69.0	70.0
54.4	43.1	45.0	47.4	47.5	53.3	55.9	52.0	47.9	48.4
47.8	52.9	48.1	50.4	55.5	41.8	40.1	53.4	46.4	51.6
166	184	138	160	140	148	153	141	169	132
38.0	51.0	40.8	51.4	52.4	50.3	52.3	48.0	53.1	58.6
0.283	0.286	0.364	0.296						
50	50	40	50						
2.977	3.197	3.010	3.091						
219.2	235.4	221.6	227.6						

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ²	114.5	2.18		
	oz/yd ²	3.4	0.06		
THICKNESS (ASTM D1777)	mm	0.48	0.020		
	mil	19.0	0.80		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		160.6	10.04		
XD		141.0	8.09		
GRAB ELONGATION (ASTM D4632)	%				
RD		63.1	4.85		
XD		64.8	7.20		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		49.5	4.20		
XD		48.8	5.00		
MULLEN BURST STRENGTH (ASTM D3786)	psi	153	16.5		
PUNCTURE STRENGTH (ASTM D4833)	lb	49.6	6.04		
APPARENT OPENING SIZE (ASTM D4751)	mm	0.307	0.0382		
	sieve no.*	40	N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	3.069	0.0980		
FLOW RATE (ASTM D4491)	gal/min ft ²	226.0	7.22		

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COMMENTS:

SECTION: RD = RD
XD = XD
* MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

GEOTEXTILE TEST RESULTS

CLIENT: Alcoa Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTEC JOB NO.: FLQ5831

CLIENT ID: Colback ND120 / LOT # 5555
DATE TESTED: 05/25/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
118.1	117.6	111.0	111.7	117.3	111.5	115.0	114.4	110.6	114.8
3.5	3.5	3.3	3.3	3.5	3.3	3.4	3.4	3.3	3.4
0.48	0.46	0.53	0.58	0.44	0.52	0.51	0.47	0.58	0.53
18.9	10.1	20.9	22.8	17.3	20.5	20.1	18.5	22.8	20.9
160.7	173.0	165.8	140.2	157.8	180.6	157.0	161.8	153.5	145.6
133.7	162.8	151.1	127.1	158.1	159.8	129.2	145.2	135.5	144.7
61.0	70.0	67.3	51.7	63.7	73.7	66.0	67.3	67.7	56.3
63.3	82.3	79.0	63.3	75.3	87.3	64.7	71.3	75.3	73.6
54.0	61.0	50.1	57.8	55.8	60.0	67.3	69.5	59.3	50.9
55.8	37.9	58.9	51.6	44.3	60.0	49.0	47.6	49.8	59.8
169	173	165	156	160	169	174	160	164	169
48.8	50.1	56.8	68.4	59.4	52.1	43.9	44.5	54.8	47.0
0.271	0.275	0.278	0.279	0.282					
50	50	50	50	50					
3.223	3.006	2.896	3.161						
237.3	221.3	213.2	232.7						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ²	114.2	2.89		
	oz/yd ²	3.4	0.09		
THICKNESS (ASTM D1777)	mm	0.51	0.048		
	mil	20.1	1.88		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		159.6	11.95		
XD		144.7	13.05		
GRAB ELONGATION (ASTM D4632)	%				
RD		64.5	6.56		
XD		73.5	8.13		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		58.6	6.36		
XD		51.5	7.26		
MULLEN BURST STRENGTH (ASTM D3786)	psi	186	5.9		
PUNCTURE STRENGTH (ASTM D4333)	lb	52.6	7.54		
APPARENT OPENING SIZE (ASTM D4751)	mm	0.277	0.0042		
	sieve no.*	50	N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	3.072	0.1484		
FLOW RATE (ASTM D4491)	gal/min ft ²	226.1	10.93		

COMMENTS

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* THE REPORTED MEAN SIEVE NO.

RESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.



Geosynthetics

MEMORANDUM

Date: 31 May 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Amoco Style 4597 Laboratory Results

Dear Steve:

Attached are the laboratory results for Amoco Style 4597 shipped to us under Shipping # H0369 in April of 1994. A few of these geotextile rolls remained in our inventory and have been used in the fabrication of Enkanet 4215-102-0000.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-010.fax

RECEIVED	
CASHIN ASSOCIATES P.C.	
JUN 5 1995 *	
PROJECT NO.	
CONTRACT NO.	

* Replaces Faxed copy rec'd May 31

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
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Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 31ST day of MAY, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

May 31, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Certification for Amoco Style 4597 Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Enclosed are the Amoco Style 4597 factory laboratory results and their 13 month old letter of certification for Shipping # H0369. Please be aware that this certification letter like earlier Amoco documents has the **incorrect** certifiable minimum roll average values for Mullen Burst (300 psi) and Puncture (90 lbs.). If you recall, Amoco acknowledged to both you and I in a phone conversation in late April that they had historically been sending us (Akzo) certification letters with incorrect values for Mullen Burst and Puncture.

The correct factory certifiable values for these tests should read 250 psi and 75 pounds, respectively. So far we've only used one roll (Piece Number 1585153) of Amoco 4597 geotextile from Shipping #H0369 in the production of two finished rolls of Enkanet 4215-102-0000. Only one of these Enkanet rolls has been shipped to the site thus far. We may use the few remaining rolls of Amoco 4597 from Shipping #H0369 in future production of Enkanet 4215-102-0000.

This shipment of Amoco 4597 as per these laboratory results meets the "revised" Minimum Roll Average Values listed in the project specifications that now recognizes 75 pounds for puncture and 250 psi for mullen burst.

I certify that all laboratory test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-087.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheboro, NC 28801
Telephone: 704/636-5050
Fax: 704/636-1099



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 19, 1994

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # CAROLYN

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # H0369, dated April 18, 1994, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	300	310
Puncture, lbs.	ASTM-D-4833 (Modi)	90	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, %* (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell
Quality Control Manager
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 27, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # CAROLYN
Shipping # H0369, dated April 18, 1994

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.2 Oz.								
1020240	4597	4.86	61	150	69	268	87	59	100+	
1020273	4597	4.86	61	150	69	268	87	59	100+	
1020274	4597	4.86	61	150	69	268	87	59	100+	
1020311	4597	4.86	61	150	69	268	87	59	100+	
1285953	4597	5.24	68	148	72	288	81	102	100+	
1287184	4597	5.03	69	140	64	296	85	73	100+	
1287189	4597	4.91	66	141	71	310	94	66	100+	
1287190	4597	4.91	66	141	71	310	94	66	100+	
1287191	4597	4.91	66	141	71	310	94	66	100+	
1287192	4597	4.91	66	141	71	310	94	66	100+	
1287193	4597	4.91	66	141	71	310	94	66	100+	
1287270	4597	5.22	67	148	69	329	107	69	100+	
1287271	4597	5.22	67	148	69	329	107	69	100+	
1287272	4597	5.22	67	148	69	329	107	69	100+	
1287274	4597	4.56	62	131	69	317	82	59	100+	
1287282	4597	4.92	65	131	77	277	68	71	100+	
1287283	4597	4.92	65	131	77	277	68	71	100+	
1287328	4597	4.92	65	131	77	277	68	71	100+	
1287329	4597	4.92	65	131	77	277	68	71	100+	
1287330	4597	4.92	65	131	77	277	68	71	100+	
1287331	4597	4.73	64	137	71	294	73	59	100+	
1287332	4597	4.73	64	137	71	294	73	59	100+	
1287333	4597	4.73	64	137	71	294	73	59	100+	
1287384	4597	4.73	64	137	71	294	73	59	100+	
1287385	4597	4.73	64	137	71	294	73	59	100+	
1287386	4597	4.73	64	137	71	294	73	59	100+	
1287407	4597	5.03	69	140	64	296	85	73	100+	
1287408	4597	5.03	69	140	64	296	85	73	100+	
*287410	4597	5.03	69	140	64	296	85	73	100+	

NOTE: PER DISCUSSION
WITH AKZO THESE ROLL
NOT USED

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 27, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # CAROLYN
Shipping # H0369, dated April 18, 1994

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.	2 Oz.							
1584883	4597	4.67	59	128	66	330	89	71	100+	
1584884	4597	4.67	59	128	66	330	89	71	100+	
1584885	4597	4.67	59	128	66	330	89	71	100+	
1584886	4597	4.84	64	124	66	316	99	65	100+	
1584887	4597	4.84	64	124	66	316	99	65	100+	
1584888	4597	4.84	64	124	66	316	99	65	100+	
1584889	4597	5.12	64	152	69	294	102	75	100+	
1584890	4597	5.12	64	152	69	294	102	75	100+	
1584891	4597	5.12	64	152	69	294	102	75	100+	
1584900	4597	4.62	57	128	64	275	79	64	100+	
1584901	4597	4.62	57	128	64	275	79	64	100+	
1584902	4597	4.62	57	128	64	275	79	64	100+	
1584903	4597	4.82	58	130	67	319	100	68	100+	
1584904	4597	4.82	58	130	67	319	100	68	100+	
1584905	4597	4.82	58	130	67	319	100	68	100+	
1584948	4597	4.84	64	124	66	316	99	65	100+	
1584949	4597	4.84	64	124	66	316	99	65	100+	
1584950	4597	4.84	64	124	66	316	99	65	100+	
1584952	4597	5.02	61	152	70	335	90	65	100+	
1584953	4597	5.02	61	152	70	335	90	65	100+	
1584954	4597	5.02	61	152	70	335	90	65	100+	
1584955	4597	4.62	57	128	64	275	79	64	100+	
1584956	4597	4.62	57	128	64	275	79	64	100+	
1584957	4597	4.62	57	128	64	275	79	64	100+	
1584966	4597	4.67	59	128	66	330	89	71	100+	
1584967	4597	4.67	59	128	66	330	89	71	100+	
1584968	4597	4.67	59	128	66	330	89	71	100+	
1584971	4597	5.12	64	152	69	294	102	75	100+	
1584972	4597	5.12	64	152	69	294	102	75	100+	
1584973	4597	5.12	64	152	69	294	102	75	100+	

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 27, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # CAROLYN
Shipping # H0369, dated April 18, 1994

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.	Oz.							
1584980	4597	5.02	61	152	70	335	90	65	100+	✓
1584982	4597	5.02	61	152	70	335	90	65	100+	
1584983	4597	5.02	61	152	70	335	90	65	100+	
1584985	4597	5.00	57	152	69	343	97	58	100+	
1584986	4597	5.00	57	152	69	343	97	58	100+	
1584987	4597	5.00	57	152	69	343	97	58	100+	
1585050	4597	5.00	57	152	69	343	97	58	100+	
1585051	4597	5.00	57	152	69	343	97	58	100+	
1585052	4597	5.00	57	152	69	343	97	58	100+	
1585054	4597	4.93	61	150	68	321	94	70	100+	
1585055	4597	4.93	61	150	68	321	94	70	100+	
1585056	4597	4.93	61	150	68	321	94	70	100+	
1585058	4597	4.93	61	150	68	321	94	70	100+	
1585059	4597	4.93	61	150	68	321	94	70	100+	
1585060	4597	4.93	61	150	68	321	94	70	100+	
1585135	4597	4.94	59	150	63	290	92	64	100+	
1585136	4597	4.94	59	150	63	290	92	64	100+	
1585137	4597	4.94	59	150	63	290	92	64	100+	
1585152	4597	4.94	59	150	63	290	92	64	100+	
1585153	4597	4.94	59	150	63	290	92	64	100+	✓
1585154	4597	4.94	59	150	63	290	92	64	100+	
1585185	4597	5.30	64	146	72	330	101	69	100+	
1585186	4597	5.30	64	146	72	330	101	69	100+	
1585187	4597	5.30	64	146	72	330	101	69	100+	
1585195	4597	5.30	64	146	72	330	101	69	100+	
1585196	4597	5.30	64	146	72	330	101	69	100+	
1585197	4597	5.30	64	146	72	330	101	69	100+	
1585208	4597	5.30	64	146	72	330	101	69	100+	
1585209	4597	5.30	64	146	72	330	101	69	100+	✓
1585210	4597	5.30	64	146	72	330	101	69	100+	

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 27, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # CAROLYN
Shipping # H0369, dated April 18, 1994

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear	A.O.S.
1585218	4597	4.86	60	136	66	334	103	78		100+
1585219	4597	4.86	60	136	66	334	103	78		100+
1585220	4597	4.86	60	136	66	334	103	78		100+
1585239	4597	4.86	60	136	66	334	103	78		100+
1585241	4597	4.86	60	136	66	334	103	78		100+
1585242	4597	4.86	60	136	66	334	103	78		100+
1585269	4597	4.99	61	141	73	362	121	73		100+
1585270	4597	4.99	61	141	73	362	121	73		100+
1585271	4597	4.99	61	141	73	362	121	73		100+
1585298	4597	4.99	61	141	73	362	121	73		100+
1585299	4597	4.99	61	141	73	362	121	73		100+
1585300	4597	4.99	61	141	73	362	121	73		100+
1585325	4597	5.07	60	145	71	353	108	73		100+
1585327	4597	5.07	60	145	71	353	108	73		100+
1585328	4597	5.07	60	145	71	353	108	73		100+
1585353	4597	5.07	60	145	71	353	108	73		100+
1585354	4597	5.07	60	145	71	353	108	73		100+
1585355	4597	5.07	60	145	71	353	108	73		100+
1585376	4597	4.77	60	135	69	341	101	64		100+
1585377	4597	4.77	60	135	69	341	101	64		100+
1585379	4597	4.77	60	135	69	341	101	64		100+
1585415	4597	4.77	60	135	69	341	101	64		100+
1585416	4597	4.77	60	135	69	341	101	64		100+
1585417	4597	4.77	60	135	69	341	101	64		100+
1585537	4597	5.01	60	137	67	318	105	60		100+
1585538	4597	5.01	60	137	67	318	105	60		100+
1585539	4597	5.01	60	137	67	318	105	60		100+
1585607	4597	4.89	60	143	67	353	102	73		100+
1585608	4597	4.89	60	143	67	353	102	73		100+
1585609	4597	4.89	60	143	67	353	102	73		100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 27, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # CAROLYN
Shipping # R0369, dated April 18, 1994

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1585684	4597	5.18	63	136	67	370	88	83	100+
1585688	4597	5.18	63	136	67	370	88	83	100+
1586208	4597	5.06	61	123	69	340	94	64	100+
1586361	4597	4.93	60	140	72	306	92	58	100+
586362	4597	4.93	60	140	72	306	92	58	100+
586363	4597	4.93	60	140	72	306	92	58	100+

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7/13/95

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BY AMOCO FABRICS COMPANY



Geosynthetics

MEMORANDUM

Date: 31 May 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

Re: East Northport Project -- Letters of Certification

Dear Steve:

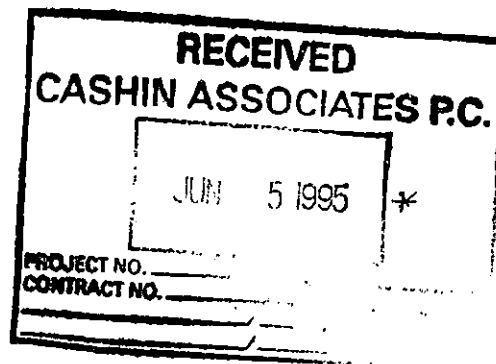
Attached are the Letters of Certification for the 30 rolls shipped to you on May 30 under manifest number 50531002. These letters cover rolls shipped from MLN 505251, 505261, 505271, 505281, 505291, and 505301.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-011.fax



*Replaces Faxed copy rec'd May 31

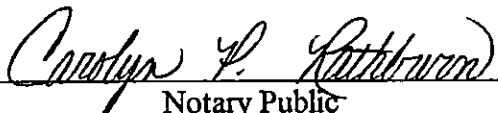
Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex Fax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 31ST day of MAY, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: May 31, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505301
Manifest No.: 50531002

ROLL(S) TESTED per MLN 505301

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
-50530903	0.419	27.0	78.0
-50530908	0.418	28.0	78.0
-50530912	0.416	27.7	78.0
-50530915	0.424	27.5	78.3
Average	0.419	27.6	78.1
Max. Value	0.424	28.0	78.3
Min. Value	0.416	27.0	78.0
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number Shipped	Colback Lot #	Roll number	PE Type	Lot	Amoco Shlp #	Roll Number	PE Type	Lot	Amoco Shlp #
-50530902	5555	50509062	10462n	4714-4-9	H0369	50511035	10462n	4714-4-9	E1375
-50530903	5555	50509063	10462n	4714-4-9	E1338	50511023	10462n	4714-4-9	E1375
-50530904	5555	50509056	10462n	4714-4-9	H0369	50505063	10462n	4714-4-9	E1375
-50530905	5555	50509061	10462n	4714-4-9	H0369	50511025	10462n	4714-4-9	E1375
-50530906	5555	50509060	10462n	4714-4-9	H0369	50505056	10462n	4714-4-9	E1375
-50530907	5555	50514059	10462n	3439-5-9	E1395	50511032	10462n	4714-4-9	E1375
-50530908	5555	50514060	10462n	3439-5-9	E1395	50511040	10462n	4714-4-9	E1375
-50530909	5555	50514061	10462n	3439-5-9	E1395	50511038	10462n	4714-4-9	E1375
-50530910	5555	50514062	10462n	3439-5-9	E1395	50511037	10462n	4714-4-9	E1375
-50530912	5555	50514058	10462n	3439-5-9	E1395	50511041	10462n	4714-4-9	E1375
-50530913	5555	50514057	10462n	3439-5-9	E1395	50512009	10462n	3439-5-9	E1375
-50530914	5555	50513061	10462n	3439-5-9	E1338	50505050	10462n	4714-4-9	E1375
-50530915	5555	50513060	10462n	3439-5-9	E1338	50505051	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-096.nyc

Akzo Nobel Geosynthetics Company
315 Ridgely Business Center
Ridgely, MD 21067
P.O. Box 1249
Asheville, NC 28802
Tel: (704) 565 5000
Fax: (704) 565 5000



Date: May 31, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505291
Manifest No.: 50531002

ROLL(S) TESTED per MLN 505291

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50529902	0.403	26.6	78.0
50529906	0.404	26.4	78.0
50529908	0.407	27.5	78.0
Average	0.405	26.8	78.0
Max. Value	0.407	27.5	78.0
Min. Value	0.403	26.4	78.0
Std. Dev.	0.002	0.6	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback									
Shipped	Lot #	Roll number	PE Type	Lot	Amoco Ship #	Roll Number	PE Type	Lot	Amoco Ship #	
50529907	5555	50514066	10462n	3439-5-9	E1395	50511027	10462n	4714-4-9	E1375	
50529908	5555	50509057	10462n	4714-4-9	H0369	50505058	10462n	4714-4-9	E1375	

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-095.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 1249
Asheville, NC 28802
Telephone: 704-665-5050
Telex: 665-5009



Date: May 31, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505281
Manifest No.: 50531002

ROLL(S) TESTED per MLN 505281

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
~50528902	0.418	29.4	78.0
~50528905	0.403	26.9	78.0
~50528909	0.404	26.8	77.5
~50528913	0.407	26.8	78.0
Average	0.408	27.5	77.9
Max. Value	0.418	29.4	78.0
Min. Value	0.403	26.8	77.5
Std. Dev.	0.007	1.3	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco		Amoco		Amoco		Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
~50528901	5153	50503022	10462n	4714-4-9	E1338	50511058	10462n	4714-4-9	E1375
~50528902	5153	50503031	10462n	4714-4-9	M1096	50506003	10462n	4714-4-9	E1375
~50528903	5153	50503021	10462n	4714-4-9	E1338	50511051	10462n	4714-4-9	E1375
~50528911	5145	50508042	10462n	4714-4-9	E1338	50506004	10462n	4714-4-9	E1375
~50528912	5145	50503013	10462n	4714-4-9	E1338	50511047	10462n	4714-4-9	E1375
~50528913	5145	50503024	10462n	4714-4-9	E1338	50511049	10462n	4714-4-9	E1375
~50528914	5145	50503012	10462n	4714-4-9	E1338	50511062	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-094.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 1249
Asheville, NC 28802
Telephone (704) 365-5050
Telefax (704) 365-5009



Date: May 31, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505271
Manifest No.: 50531002

ROLL(S) TESTED per MLN 505271

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50527903	0.409	28.6	78.5
Average	0.409	28.6	78.5
Max. Value	0.409	28.6	78.5
Min. Value	0.409	28.6	78.5
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50527906	5153	50503023	10462n	4714-4-9	E1338	50511056	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Akzo Nobel Geosynthetics Company
Suite 318, Ridgfield Business Center
Ridgfield Court
P O Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telex (704) 665-5009



Geosynthetics

Date: May 31, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505261
Manifest No.: 50531002

ROLL(S) TESTED per MLN 505261

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/vd ²)	ASTM D3774 CORE WIDTH Inches
50526904	0.400	26.7	78.0
~50526906	0.414	27.6	78.3
~50526907	0.408	26.6	78.5
~50526911	0.404	26.7	78.3
Average	0.407	26.9	78.3
Max. Value	0.414	27.6	78.5
Min. Value	0.400	26.6	78.0
Std. Dev.	0.006	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Lot #		Roll number		PE Type		Lot	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
✓ 50526902	5555	50504013	10462n	4714-4-9	E1395	50506018	10462n	4714-4-9	E1375
✓ 50526906	5555	50508056	10462n	4714-4-9	E1338	50506017	10462n	4714-4-9	E1375
— 50526907	5153	50504003	10462n	4714-4-9	M1096	50506010	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-092.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Co. CT
P.O. Box 724
Asheville, NC 28802
Telephone (704) 665-5050
Telex 770-555 5009



Geosynthetics

Date: May 31, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505251
Manifest No.: 50531002

ROLL(S) TESTED per MLN 505251

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/vd ²)	ASTM D3774 CORE WIDTH Inches
50525905	0.408	27.2	78.0
~50525906	0.407	26.2	77.8
~50525908	0.403	26.8	78.0
~50525910	0.413	26.3	77.8
~50525914	0.414	26.8	78.0
Average	0.409	26.7	77.9
Max. Value	0.414	27.2	78.0
Min. Value	0.407	26.2	77.8
Std. Dev.	0.005	0.4	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
~50525909	5107	50504012	10462n	4714-4-9	E1395	50506034	10462n	4714-4-9	E1375
~50525910	5107	50504004	10462n	4714-4-9	M1096	50506029	10462n	4714-4-9	E1375
~50525911	5107	50504006	10462n	4714-4-9	E1395	50506020	10462n	4714-4-9	E1375
~50525915	5107	50504023	10462n	4714-4-9	E1395	50506024	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-091.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Geosynthetics

MEMORANDUM

Date: June 2, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 6

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls shipped to you on June 2 under manifest number 50601008. These letters cover rolls shipped from MLN 505301, 505311, and 506011.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-012.fax

RECEIVED	
CASHIN ASSOCIATES P.C.	
JAN 5 1995 *	
PROJECT NO. _____	
CONTRACT NO. _____	

* replaces faxed copy rec'd June 2/95

Akzo Nobel Geosynthetics Company
Suite 318, Ridgfield Business Center
Ridgfield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 2nd day of June, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: June 2, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506011
Manifest No.: 50601008

ROLL(S) TESTED per MLN 506011

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50601904	0.436	26.6	78.0
50601907	0.422	27.1	78.0
50601909	0.420	27.5	78.0
50601914	0.420	28.1	77.5
Average	0.425	27.3	77.9
Max. Value	0.436	28.1	78.0
Min. Value	0.420	26.6	77.5
Std. Dev.	0.008	0.6	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco				Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50601902	5145	50513053	10462n	3439-5-9	E1395	50415040	10062n	554843	E1375
50601903	5145	50513050	10462n	3439-5-9	E1395	50414028	10262n	544243	E1375
50601905	5145	50513049	10462n	3439-5-9	E1395	50416004	10062n	554843	E1375
50601906	5145	50513045	10462n	3439-5-9	E1395	50512029	10462n	3439-5-9	E1375
50601907	5145	50513046	10462n	3439-5-9	E1395	50416018	10062n	554843	E1375
50601909	5555	50505055	10462n	4714-4-9	E1375	50416003	10062n	554843	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-105.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Teletax (704) 665-5009



Date: June 2, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505311
Manifest No.: 50601008

ROLL(S) TESTED per MLN 505311

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50531901	0.409	27.4	78.3
50531905	0.419	27.1	78.0
50531911	0.400	26.8	78.0
50531915	0.399	27.2	78.0
50531919	0.409	27.0	78.8
Average	0.407	27.1	78.2
Max. Value	0.419	27.4	78.8
Min. Value	0.399	26.8	78.0
Std. Dev.	0.008	0.2	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Shlp #	Roll Number	PE Type	Lot	Shlp #
50531901	5555	50513063	10462n	4714-4-9	E1338	50505054	10462n	4714-4-9	E1375
50531902	5555	50513058	10462n	4714-4-9	E1395	50505048	10462n	4714-4-9	E1375
50531903	5145	50513059	10462n	3439-5-9	E1338	50505042	10462n	4714-4-9	E1375
50531904	5145	50513064	10462n	3439-5-9	E1338	50512016	10462n	3439-5-9	E1375
50531905	5145	50513065	10462n	3439-5-9	E1338	50505049	10462n	4714-4-9	E1375
50531906	5145	50513022	10462n	3439-5-9	M1096	50512012	10462n	3439-5-9	E1375
50531907	5145	50513024	10462n	3439-5-9	E1338	50505038	10462n	4714-4-9	E1375
50531908	5145	50513056	10462n	3439-5-9	E1395	50505037	10462n	4714-4-9	E1375
50531909	5145	50513057	10462n	3439-5-9	E1395	50505052	10462n	4714-4-9	E1375
50531910	5145	50513023	10462n	3439-5-9	E1338	50505039	10462n	4714-4-9	E1375
50531911	5145	50509054	10462n	4714-4-9	H0369	50505053	10462n	4714-4-9	E1375
50531912	5145	50509053	10462n	4714-4-9	H0369	50505040	10462n	4714-4-9	E1375
50531913	5145	50418015	10462n	3145-5-9	E1338	50505035	10462n	4714-4-9	E1375
50531914	5145	50418016	10462n	3145-5-9	E1338	50505036	10462n	4714-4-9	E1375
50531915	5145	50418011	10462n	3145-5-9	E1338	50505034	10462n	4714-4-9	E1375
50531917	5145	50418013	10462n	3145-5-9	E1338	50505032	10462n	3439-5-9	E1375

Akzo Nobel Geosynthetics Company
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Geosynthetics

50531918	5145	50418018	10462n	3145-5-9	E1395	50511026	10462n	3439-5-9	E1375
50531919	5145	50513025	10462n	3439-5-9	E1338	50414027	10262n	544243	E1375
50531920	5145	50418012	10462n	3145-5-9	E1338	50414048	10262n	544243	E1375
50531921	5145	50418014	10462n	3145-5-9	E1338	50415025	10062n	554843	E1375
50531922	5145	50513055	10462n	3439-5-9	E1395	50415026	10062n	554843	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-102.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
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Phone (704) 665-5050
Fax (704) 665-5119



Date: June 2, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 505301
Manifest No.: 50601008

ROLL(S) TESTED per MLN 505301

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50530903	0.419	27.0	78.0
50530908	0.418	28.0	78.0
50530912	0.416	27.7	78.0
50530915	0.424	27.5	78.3
Average	0.419	27.6	78.1
Max. Value	0.424	28.0	78.3
Min. Value	0.416	27.0	78.0
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco							
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50530916	5555	50509064	10462n	4714-4-9	E1338	50511039	10462n	4714-4-9	E1375
50530917	5555	50513020	10462n	3439-5-9	M1096	50512010	10462n	3439-5-9	E1375
50530918	5555	50513062	10462n	3439-5-9	E1338	50512011	10462n	3439-5-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

MEMORANDUM

Date: 6 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

Re: East Northport Project -- Amoco Style 4597 Laboratory Results

Dear Steve:

Attached are the laboratory results and Letter of Certification for Amoco Style 4597 shipped to us on May 30, 1995 under Shipping # I1712. Product from this Shipping # was used to fabricate some of the rolls of Enkanet 4215-102-0000 shipped to you under Akzo Nobel Manifest 50606006. Geotextile from this Amoco Shipping # will likewise be used for future fabrication of Enkanet 4215-102-0000.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-013.fax

ECF
16 June/95
mz *

* replaces Faxed copy rec'd June 6

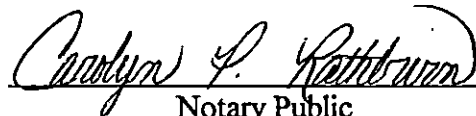
Akzo Nobel Geosynthetics Company
Suite 318 Ridgfield Business Center
Ridgfield Court
P O Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 6th day of June, 1995.



Notary Public

My Commission Expires May 7, 2000.



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

May 30, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Post-It™ brand fax transmittal memo 7671		# of pages ▶ 6
To <i>Rick Bowen</i>	From	
Co	Co.	
Dept.	Phone #	
Fax #	Fax #	

Re: Purchase Order # 85-505018

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # 11712, dated May 30, 1995, meets the following minimum roll averages:

Property	Test Method	Minimum Roll	
		Average Value	Typical Value
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	250	310
Puncture, lbs.	ASTM-D-4833 (Modi)	75	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, ** (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell
Quality Control Manager
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

May 30, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # 11712, dated May 30, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.D.S.
1836589	4597	8.34	96	214	73	564	146	88	100+
1836590	4597	8.34	96	214	73	564	146	88	100+
1836591	4597	8.34	96	214	73	564	146	88	100+
1836620	4597	6.64	81	196	77	435	136	91	100+
1836621	4597	6.64	81	196	77	435	136	91	100+
1836622	4597	6.64	81	196	77	435	136	91	100+
1836623	4597	6.64	81	196	77	435	136	91	100+
1836624	4597	6.64	81	196	77	435	136	91	100+
1836625	4597	6.64	81	196	77	435	136	91	100+
1836627	4597	7.03	85	196	72	344	119	87	100+
1836629	4597	7.03	85	196	72	344	119	87	100+
1836630	4597	7.03	85	196	72	344	119	87	100+
1836631	4597	7.03	85	196	72	344	119	87	100+
1836632	4597	7.03	85	196	72	344	119	87	100+
1836663	4597	6.54	81	187	72	416	126	83	100+
1836664	4597	6.54	81	187	72	416	126	83	100+
1836668	4597	6.54	81	187	72	416	126	83	100+
1836669	4597	6.54	81	187	72	416	126	83	100+
1836710	4597	5.63	64	145	67	315	94	81	100+
1836711	4597	5.63	64	145	67	315	94	81	100+
1836751	4597	5.86	70	149	66	322	100	81	100+
1836893	4597	5.80	70	154	74	359	112	83	100+
1836897	4597	5.80	70	154	74	359	112	83	100+
1836926	4597	5.01	57	133	73	304	90	60	100+
1836927	4597	5.01	57	133	73	304	90	60	100+
1836930	4597	5.01	57	133	73	304	90	60	100+
1836938	4597	5.98	67	141	68	321	83	74	100+
1836939	4597	5.98	67	141	68	321	83	74	100+
1836942	4597	5.98	67	141	68	321	83	74	100+

92
7/13/95

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31533-0451

May 30, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # 11712, dated May 30, 1995

Piece		Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
1837256	4597	5.08	60	130	72	306	96	68	100+	
1837257	4597	5.08	60	130	72	306	96	68	100+	
1837284	4597	5.14	64	133	75	314	82	66	100+	
1837285	4597	5.14	64	133	75	314	82	66	100+	
1837286	4597	5.14	64	133	75	314	82	66	100+	
1837287	4597	5.14	64	133	75	314	82	66	100+	
1837288	4597	5.14	64	133	75	314	82	66	100+	
1837289	4597	5.14	64	133	75	314	82	66	100+	
1837297	4597	5.13	65	142	75	338	88	57	100+	
1837298	4597	5.13	65	142	75	338	88	57	100+	
1837299	4597	5.13	65	142	75	338	88	57	100+	
1837300	4597	5.13	65	142	75	338	88	57	100+	
1837301	4597	5.13	65	142	75	338	88	57	100+	
1837302	4597	5.13	65	142	75	338	88	57	100+	
1837316	4597	4.92	61	141	71	333	91	65	100+	
1837317	4597	4.92	61	141	71	333	91	65	100+	
1837318	4597	4.92	61	141	71	333	91	65	100+	
1837319	4597	4.92	61	141	71	333	91	65	100+	
1837320	4597	4.92	61	141	71	333	91	65	100+	
1837321	4597	4.92	61	141	71	333	91	65	100+	
1837347	4597	5.20	59	127	72	323	86	61	100+	
1837348	4597	5.20	59	127	72	323	86	61	100+	
1837349	4597	5.20	59	127	72	323	86	61	100+	
1837350	4597	5.20	59	127	72	323	86	61	100+	
1837351	4597	5.20	59	127	72	323	86	61	100+	
1837352	4597	5.20	59	127	72	323	86	61	100+	
1837364	4597	5.19	62	136	80	353	102	64	100+	
1837365	4597	5.19	62	136	80	353	102	64	100+	
1837366	4597	5.19	62	136	80	353	102	64	100+	
1837367	4597	5.19	62	136	80	353	102	64	100+	

Handwritten signature and date:
7/13/95

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

May 30, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # 11712, dated May 30, 1995

Piece	Weight									
Number	Style	Yd. 2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear	A.O.S.
1836943	4597	5.38	60	137	69	297	89	68		100+
1836954	4597	5.80	65	151	76	342	103	69		100+
1836955	4597	6.06	65	150	75	350	115	67		100+
1836956	4597	6.06	65	150	75	350	115	67		100+
1836957	4597	6.06	65	150	75	350	115	67		100+
1836958	4597	6.06	65	150	75	350	115	67		100+
1836959	4597	6.06	65	150	75	350	115	67		100+
1836960	4597	6.06	65	150	75	350	115	67		100+
1836994	4597	5.53	66	127	75	401	107	74		100+
1836995	4597	5.53	66	127	75	401	107	74		100+
1836996	4597	5.53	66	127	75	401	107	74		100+
1836997	4597	5.53	66	127	75	401	107	74		100+
1836998	4597	5.53	66	127	75	401	107	74		100+
1836999	4597	5.53	66	127	75	401	107	74		100+
1837003	4597	5.64	69	144	73	286	94	62		100+
1837004	4597	5.64	69	144	73	286	94	62		100+
1837005	4597	5.64	69	144	73	286	94	62		100+
1837006	4597	5.64	69	144	73	286	94	62		100+
1837007	4597	5.64	69	144	73	286	94	62		100+
1837008	4597	5.64	69	144	73	286	94	62		100+
1837043	4597	5.28	56	147	74	340	93	60		100+
1837044	4597	5.28	56	147	74	340	93	60		100+
1837045	4597	5.28	56	147	74	340	93	60		100+
1837046	4597	5.28	56	147	74	340	93	60		100+
1837047	4597	5.28	56	147	74	340	93	60		100+
1837048	4597	5.28	56	147	74	340	93	60		100+
1837068	4597	5.32	65	123	74	315	92	70		100+
1837069	4597	5.32	65	123	74	315	92	70		100+
1837070	4597	5.32	65	123	74	315	92	70		100+
1837071	4597	5.32	65	123	74	315	92	70		100+

Handwritten signature and date:
7/13/95

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazzlehurst, Georgia 31539-0451

May 30, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # 11712, dated May 30, 1995

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear	A.O.S.
1837072	4597	5.32	65	123	74	315	92	70		100+
1837073	4597	5.32	65	123	74	315	92	70		100+
1837103	4597	4.50	56	134	65	290	86	46		100+
1837104	4597	4.50	56	134	65	290	86	46		100+
1837105	4597	4.50	56	134	65	290	86	46		100+
1837106	4597	4.50	56	134	65	290	86	46		100+
1837107	4597	4.50	56	134	65	290	86	46		100+
1837108	4597	4.50	56	134	65	290	86	46		100+
1837125	4597	5.31	63	148	75	313	89	58		100+
1837126	4597	5.31	63	148	75	313	89	58		100+
1837127	4597	5.31	63	148	75	313	89	58		100+
1837128	4597	5.31	63	148	75	313	89	58		100+
1837129	4597	5.31	63	148	75	313	89	58		100+
1837130	4597	5.31	63	148	75	313	89	58		100+
1837184	4597	5.27	62	136	70	382	105	60		100+
1837185	4597	5.27	62	136	70	382	105	60		100+
1837186	4597	5.27	62	136	70	382	105	60		100+
1837187	4597	5.27	62	136	70	382	105	60		100+
1837188	4597	5.27	62	136	70	382	105	60		100+
1837189	4597	5.27	62	136	70	382	105	60		100+
1837205	4597	4.68	57	129	71	290	79	57		100+
1837206	4597	4.68	57	129	71	290	79	57		100+
1837207	4597	4.68	57	129	71	290	79	57		100+
1837208	4597	4.68	57	129	71	290	79	57		100+
1837209	4597	4.68	57	129	71	290	79	57		100+
1837210	4597	4.68	57	129	71	290	79	57		100+
1837252	4597	5.08	60	130	72	306	96	68		100+
1837253	4597	5.08	60	130	72	306	96	68		100+
1837254	4597	5.08	60	130	72	306	96	68		100+
1837255	4597	5.08	60	130	72	306	96	68		100+

Handwritten signature and date:
7/13/95

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

May 30, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # 11712, dated May 30, 1995

Piece	Weight									
Number	Style	Yd. 2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear	A.O.S.
1837368	4597	5.19	62	136	80	353	102	64		100+
1837369	4597	5.19	62	136	80	353	102	64		100+

Handwritten signature
1/13/95

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Geosynthetics

MEMORANDUM

Date: 6 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls shipped to you on June 6 under manifest number 50606006. These letters cover rolls shipped from MLN 506021, 506031, 506041, 506051, and 506061.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-014.fax

RECEIVED
June 16 1995 *

* replaces Faxed copy rec'd June 6

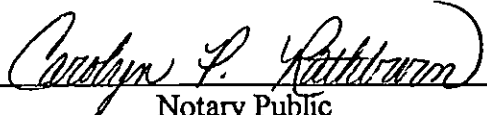
Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665 5050
Telefax (704) 665 5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 6th day of June, 1995.


Notary Public

My Commission Expires May 7, 2000.



Date: June 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506061
Manifest No.: 50606006

ROLL(S) TESTED per MLN 506061

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50606903	0.415	27.4	78.0
Average	0.415	27.4	78.0
Max. Value	0.415	27.4	78.0
Min. Value	0.415	27.4	78.0
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco							
Shipped	Lot #	Roll number	PE Type	Lot	Shlp #	Roll Number	PE Type	Lot	Shlp #
50606901	5555	50513011	10462N	3439-5-9	E1338	50606006	10462N	3439-5-9	I1712
50606902	5555	50512067	10462N	3439-5-9	E1338	50606005	10462N	3439-5-9	I1712
50606904	5555	50513010	10462N	3439-5-9	E1338	50606007	10462N	3439-5-9	I1712

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-114.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telex 17041 665 5009



Date: June 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506051
Manifest No.: 50606006

ROLL(S) TESTED per MLN 506051

ROLL No.	ASTM D1777 Composite Thick	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50605903	0.414	27.5	78.3
50605904	0.422	28.0	78.3
50605907	0.413	28.3	78.0
50605911	0.407	28.1	78.0
50605914	0.414	27.9	78.5
Average	0.414	28.0	78.2
Max. Value	0.422	28.3	78.5
Min. Value	0.407	27.5	78.0
Std. Dev.	0.005	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback					Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50605901	5555	50418043	10462N	3145-5-9	E1338	50507018	10462N	4714-4-9	E1375
50605902	5555	50509044	10462N	4714-4-9	E1338	50604058	10462N	3439-5-9	I1712
50605903	5555	50509045	10462N	4714-4-9	E1338	50604036	10462N	3439-5-9	I1712
50605904	5555	50513031	10462N	3439-5-9	E1338	50604055	10462N	3439-5-9	I1712
50605905	5555	50509043	10462N	4714-4-9	E1338	50604057	10462N	3439-5-9	I1712
50605907	5113	50513017	10462N	3439-5-9	M1096	50510056	10462N	4714-4-9	E1375
50605909	5113	50513014	10462N	3439-5-9	E1338	50604034	10462N	3439-5-9	I1712
50605910	5113	50513018	10462N	3439-5-9	M1096	50604053	10462N	3439-5-9	I1712
50605911	5113	50513005	10462N	3439-5-9	E1338	50605017	10462N	3439-5-9	I1712
50605912	5113	50513004	10462N	3439-5-9	E1338	50605013	10462N	3439-5-9	I1712
50605913	5555	50509002	10462N	4714-4-9	E1338	50605034	10462N	3439-5-9	I1712
50605914	5555	50513013	10462N	3439-5-9	E1338	50605016	10462N	3439-5-9	I1712

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-112.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 645-5050
Telefax (704) 645-5009



Date: June 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506031
Manifest No.: 50606006

ROLL(S) TESTED per MLN 506031

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50603901	0.402	26.7	78.3
50603904	0.420	27.7	78.0
50603906	0.413	27.3	78.0
Average	0.412	27.2	78.1
Max. Value	0.420	27.7	78.3
Min. Value	0.402	26.7	78.0
Std. Dev.	0.009	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215				Single Width Source Rolls of Enkanet 4015					
Roll Number	Colback					Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50603901	5555	50503011	10462n	4714-4-9	E1338	50507009	10462n	4714-4-9	E1375
50603902	5555	50504009	10462n	4714-4-9	E1395	50511028	10462n	4714-4-9	E1375
50603903	5555	50505021	10462n	4714-4-9	E1395	50508016	10462n	4714-4-9	E1375
50603906	5555	50509046	10462n	4714-4-9	E1338	50511043	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-110.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665 5009



Date: June 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506021
Manifest No.: 50606006

ROLL(S) TESTED per MLN 506021

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50602904	0.418	27.9	78.0
50602907	0.416	27.2	78.3
50602909	0.412	26.9	78.0
Average	0.415	27.3	78.1
Max. Value	0.418	27.9	78.3
Min. Value	0.412	26.9	78.0
Std. Dev.	0.003	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width			Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50602902	5555	50513007	10462n	3439-5-9	E1338	50512033	10462n	3439-5-9	E1375
50602904	5145	50514021	10462n	3439-5-9	E1338	50507026	10462n	4714-4-9	E1375
50602905	5145	50513040	10462n	3439-5-9	E1338	50507023	10462n	4714-4-9	E1375
50602907	5145	50509055	10462n	4714-4-9	H0369	50511029	10462n	4714-4-9	E1375
50602909	5145	50513033	10462n	3439-5-9	E1338	50506023	10462n	4714-4-9	E1375
50602910	5555	50504022	10462n	4714-4-9	E1395	50505045	10462n	4714-4-9	E1375
50602911	5555	50503019	10462n	4714-4-9	E1395	50505033	10462n	4714-4-9	E1375
50602912	5555	50503010	10462n	4714-4-9	E1338	50506047	10462n	4714-4-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-109.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telex: 24 665-5009



Geosynthetics

Date: June 6, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506041
Manifest No.: 50606006

ROLL(S) TESTED per MLN 506041

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50604902	0.407	27.6	78.0
Average	0.407	27.6	78.0
Max. Value	0.407	27.6	78.0
Min. Value	0.407	27.6	78.0
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50604901	5555	50509042	10462n	4714-4-9	E1338	50603010	10462n	3439-5-9	I1712
50604902	5555	50509048	10462n	4714-4-9	E1338	50604035	10462n	3439-5-9	I1712
50604903	5555	50513029	10462n	3439-5-9	E1338	50604033	10462n	3439-5-9	I1712

R.D. Bowen

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-108.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665 5009



Geosynthetics

MEMORANDUM

Date: 12 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 6

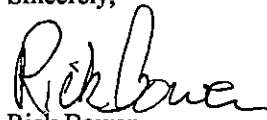
Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls shipped to you on June 12 under manifest number 50609011. These letters cover rolls shipped from MLN 506011, 506071, 506081, and 506091.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-016.fax

RECEIVED
June 16/95

* replaces Faxed copy rec'd June 13

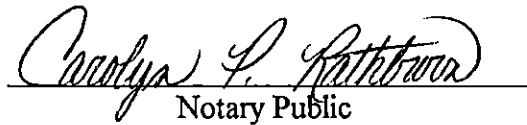
Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665 5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 12TH day of JUNE, 1995.


Notary Public

My Commission Expires May 7, 2000.



Date: June 12 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506011
Manifest No.: 50609011

ROLL(S) TESTED per MLN 506011

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50601904	0.436	26.6	78.0
50601907	0.422	27.1	78.0
50601909	0.420	27.5	78.0
50601914✓	0.420	28.1	77.5
Average	0.425	27.3	77.9
Max. Value	0.436	28.1	78.0
Min. Value	0.420	26.6	77.5
Std. Dev.	0.008	0.6	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width			Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50601910	5555	50513039	10462n	3439-5-9	E1338	50415039	10062n	554843	E1375
50601912	5555	50514022	10462n	3439-5-9	E1338	50512023	10462n	3439-5-9	E1375
50601913	5555	50513038	10462n	3439-5-9	E1338	50510047	10462n	4714-4-9	E1375
50601914	5555	50513042	10462n	3439-5-9	E1395	50512032	10462n	3439-5-9	E1375

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-117yc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665 5009



Date: June 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506071
Manifest No.: 50609011

ROLL(S) TESTED per MLN 506071

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick.	Mass/ Unit Area	CORE WIDTH
	Inches	Total (oz/yd ²)	Inches
50607903	0.414	28.1	77.8
50607907	0.422	27.9	78.0
50607908	0.426	27.7	78.0
50607911 ✓	0.402	26.9	78.0
Average	0.416	27.7	77.9
Max. Value	0.426	28.1	78.0
Min. Value	0.402	26.9	77.8
Std. Dev.	0.011	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback			Amoco				Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50607911	5555	50512059	10462N	3439-5-9	E1338	50606047	10462N	3439-5-9	I 1712
50607912	5555	50513069	10462N	3439-5-9	E1338	50607024	10462N	3439-5-9	I 1712
50607913	5555	50508037	10462N	3439-5-9	E1338	50607023	10462N	3439-5-9	I 1712
50607914	5555	50513068	10462N	3439-5-9	E1338	50607033	10462N	3439-5-9	I 1712
50607915	5555	50508034	10462N	3439-5-9	E1338	50607034	10462N	3439-5-9	I 1712
50607916	5555	50508038	10462N	3439-5-9	E1338	50607032	10462N	3439-5-9	I 1712
50607917	5555	50508036	10462N	3439-5-9	E1338	50607031	10462N	3439-5-9	I 1712
50607918	5555	50514070	10462N	3439-5-9	E1395	50607025	10462N	3439-5-9	I 1712

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-118.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 662-5050
Fax: (704) 662-5009



Date: June 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506081
Manifest No.: 50609011

ROLL(S) TESTED per MLN 506081

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick.	Mass/ Unit Area	CORE WIDTH
	Inches	Total (oz/yd ²)	Inches
50608903 ✓	0.419	27.5	78.0
50608906 ✓	0.416	27.3	78.0
50608914 ✓	0.415	27.8	77.5
50608917 ✓	0.420	27.4	77.5
Average	0.418	27.5	77.8
Max. Value	0.420	27.8	78.0
Min. Value	0.415	27.3	77.5
Std. Dev.	0.002	0.2	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback									
Shipped	Lot #	Roll number	PE Type	Lot	Amoco Ship #	Roll Number	PE Type	Lot	Amoco Ship #	
50608902	5555	50512056	10462N	3439/5/9	E1338	50607027	10462N	3439-5-9	I 1712	
50608903	5555	50512055	10462N	3439/5/9	E1338	50607028	10462N	3439-5-9	I 1712	
50608904	5555	50512057	10462N	3439/5/9	E1338	50606050	10462N	3439-5-9	I 1712	
50608905	5555	50515009	10462N	3439/5/9	E1338	50607022	10462N	3439-5-9	I 1712	
50608906	5555	50515012	10462N	3439/5/9	E1338	50607021	10462N	3439-5-9	I 1712	
50608907	5555	50515010	10462N	3439/5/9	E1338	50606025	10462N	3439-5-9	I 1712	
50608908	5555	50512046	10462N	3439/5/9	E1338	50605067	10462N	3439-5-9	I 1712	
50608909	5555	50512048	10462N	3439/5/9	E1338	50607035	10462N	3439-5-9	I 1712	
50608913	5555	50512036	10462N	3439/5/9	E1338	50608019	10462N	3439-5-9	I 1712	
50608914	5555	50512037	10462N	3439/5/9	E1338	50607029	10462N	3439-5-9	I 1712	
50608915	5555	50512039	10462N	3439/5/9	E1338	50608034	10462N	3439-5-9	I 1712	
50608916	5555	50512038	10462N	3439/5/9	E1338	50608033	10462N	3439-5-9	I 1712	
50608917	5555	50512051	10462N	3439/5/9	E1338	50607030	10462N	3439-5-9	I 1712	

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-120.nyc

Akzo Nobel Geosynthetics Company
Suite 312, Ridgely Business Center
Ridgely, MD 21070
P.O. Box 7249
Ashley, NC 28802
Telephone: (704) 565-5000
Fax: (704) 565-5000



Date: June 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506091
Manifest No.: 50609011

ROLL(S) TESTED per MLN 506091

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50609903 ✓	0.423	27.4	78.0
50609906 ✓	0.428	27.8	77.8
50609910 ✓	0.422	28.1	77.8
50609913	0.438	30.3	77.8
50609917	0.425	28.0	77.8
50609919	0.422	27.4	77.8
50609921	0.422	27.5	78.0
Average	0.426	28.1	77.9
Max. Value	0.438	30.3	78.0
Min. Value	0.422	27.4	77.8
Std. Dev.	0.006	1.0	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco							
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50609901	5555	50512049	10462N	3439/5/9	E1338	50607016	10462N	3439-5-9	I 1712
50609902	5555	50513027	10462N	3439/5/9	E1338	50605068	10462N	3439-5-9	I 1712
50609903	5555	50512058	10462N	3439/5/9	E1338	50607012	10462N	3439-5-9	I 1712
50609904	5555	50514023	10462N	3439/5/9	E1338	50607015	10462N	3439-5-9	I 1712
50609905	5555	50513071	10462N	3439/5/9	E1338	50607036	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665 5009



Geosynthetics

MEMORANDUM

Date: 13 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 87

Re: East Northport Project -- Amoco Style 4597 Laboratory Results

Dear Steve:

Attached are the laboratory results and Letter of Certification for Amoco Style 4597 shipped to us on June 6, 1995 under Shipping # L0007. Product from this Shipping # will be used to fabricate future rolls of Enkanet 4215-102-0000. You will be able to determine when this new Shipping # of Amoco 4597 is being used on finished rolls of Enkanet 4215-102-0000 as all Akzo Nobel Letters of Certification list this information for every roll of Enkanet 4215-102-0000 shipped to your site.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-017.fax

RECEIVED
June 16/95
M8

* replaces Faxed copy rec'd
June 14

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telex (704) 665 5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 13th day of June, 1995.



Notary Public

My Commission Expires May 7, 2000.



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 7, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # L0007, dated June 6, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	250	310
Puncture, lbs.	ASTM-D-4833 (Modi)	75	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, %* (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell
Quality Control Manager
Amoco Fabrics and Fibers Company

mom

AKZO FIBERS

95 JUN 12 PM 2:23

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 7, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # L0007, dated June 6, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1836139	4597	5.18	58	129	73	284	92	51	100+
1836140	4597	5.18	58	129	73	284	92	51	100+
1836141	4597	5.18	58	129	73	284	92	51	100+
1836190	4597	5.18	58	129	73	284	92	51	100+
1836191	4597	5.18	58	129	73	284	92	51	100+
1836192	4597	5.18	58	129	73	284	92	51	100+
1836193	4597	6.56	75	163	72	397	119	66	100+
1836194	4597	6.56	75	163	72	397	119	66	100+
1836195	4597	6.56	75	163	72	397	119	66	100+
1836196	4597	6.56	75	163	72	397	119	66	100+
1836197	4597	6.56	75	163	72	397	119	66	100+
1836198	4597	6.56	75	163	72	397	119	66	100+
1836247	4597	5.81	57	138	72	338	118	67	100+
1836248	4597	5.81	57	138	72	338	118	67	100+
1836249	4597	5.81	57	138	72	338	118	67	100+
1836250	4597	5.81	57	138	72	338	118	67	100+
1836251	4597	5.81	57	138	72	338	118	67	100+
1836252	4597	5.81	57	138	72	338	118	67	100+
1836268	4597	6.15	70	145	64	361	107	70	100+
1836269	4597	6.15	70	145	64	361	107	70	100+
1836270	4597	6.15	70	145	64	361	107	70	100+
1836274	4597	6.15	70	145	64	361	107	70	100+
1836275	4597	6.15	70	145	64	361	107	70	100+
1836276	4597	6.15	70	145	64	361	107	70	100+
1836288	4597	5.08	55	133	68	284	97	55	100+
1836289	4597	5.08	55	133	68	284	97	55	100+
1836290	4597	5.08	55	133	68	284	97	55	100+
1836291	4597	5.08	55	133	68	284	97	55	100+
1836292	4597	5.08	55	133	68	284	97	55	100+

THIS DOCUMENT CONTAINS
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TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY

AP
7/15/95



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 7, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # L0007, dated June 6, 1995

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.2	Oz.							
1836293	4597	5.08	55	133	68	284	97	55	100+	
1836335	4597	6.44	72	158	79	382	124	75	100+	
1836336	4597	6.44	72	158	79	382	124	75	100+	
1836337	4597	6.44	72	158	79	382	124	75	100+	
1836338	4597	6.44	72	158	79	382	124	75	100+	
1836339	4597	6.44	72	158	79	382	124	75	100+	
1836340	4597	6.44	72	158	79	382	124	75	100+	
1836383	4597	5.11	58	140	80	272	91	64	100+	
1836384	4597	5.11	58	140	80	272	91	64	100+	
1836385	4597	5.11	58	140	80	272	91	64	100+	
1836386	4597	5.11	58	140	80	272	91	64	100+	
1836387	4597	5.11	58	140	80	272	91	64	100+	
1836388	4597	5.11	58	140	80	272	91	64	100+	
1836529	4597	6.67	77	236	77	394	125	74	100+	
1836530	4597	6.67	77	236	77	394	125	74	100+	
1836531	4597	6.67	77	236	77	394	125	74	100+	
1836532	4597	6.67	77	236	77	394	125	74	100+	
1836533	4597	6.67	77	236	77	394	125	74	100+	
1836554	4597	7.11	80	168	71	430	115	78	100+	
1836555	4597	7.11	80	168	71	430	115	78	100+	
1836556	4597	7.11	80	168	71	430	115	78	100+	
1836557	4597	7.11	80	168	71	430	115	78	100+	
1836558	4597	7.11	80	168	71	430	115	78	100+	
1836559	4597	7.11	80	168	71	430	115	78	100+	
1836586	4597	8.34	96	214	73	564	146	88	100+	
1836587	4597	8.34	96	214	73	564	146	88	100+	
1836588	4597	8.34	96	214	73	564	146	88	100+	
1836628	4597	7.03	85	196	72	344	119	87	100+	
1836665	4597	6.54	81	187	72	416	126	83	100+	
1836670	4597	6.54	81	187	72	416	126	83	100+	

AD
7/13/95

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 7, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # L0007, dated June 6, 1995

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.	2 Oz.							
1836712	4597	5.63	64	145	67	315	94	81	100+	
1836713	4597	5.63	64	145	67	315	94	81	100+	
1836714	4597	5.63	64	145	67	315	94	81	100+	
1836715	4597	5.63	64	145	67	315	94	81	100+	
1836747	4597	5.86	70	149	66	322	100	81	100+	
1836748	4597	5.86	70	149	66	322	100	81	100+	
1836749	4597	5.86	70	149	66	322	100	81	100+	
1836750	4597	5.86	70	149	66	322	100	81	100+	
1836752	4597	5.86	70	149	66	322	100	81	100+	
1836788	4597	6.23	75	153	73	383	109	84	100+	
1836789	4597	6.23	75	153	73	383	109	84	100+	
1836790	4597	6.23	75	153	73	383	109	84	100+	
1836791	4597	6.23	75	153	73	383	109	84	100+	
1836792	4597	6.23	75	153	73	383	109	84	100+	
1836793	4597	6.23	75	153	73	383	109	84	100+	
1836795	4597	5.60	69	150	65	389	123	65	100+	
1836796	4597	5.60	69	150	65	389	123	65	100+	
1836797	4597	5.60	69	150	65	389	123	65	100+	
1836798	4597	5.60	69	150	65	389	123	65	100+	
1836799	4597	5.60	69	150	65	389	123	65	100+	
1836800	4597	5.60	69	150	65	389	123	65	100+	
1836818	4597	5.20	59	132	67	310	94	63	100+	
1836819	4597	5.20	59	132	67	310	94	63	100+	
1836820	4597	5.20	59	132	67	310	94	63	100+	
1836821	4597	5.20	59	132	67	310	94	63	100+	
1836822	4597	5.20	59	132	67	310	94	63	100+	
1836823	4597	5.20	59	132	67	310	94	63	100+	
1836871	4597	6.10	72	157	74	380	113	78	100+	
1836872	4597	6.10	72	157	74	380	113	78	100+	
1836873	4597	6.10	72	157	74	380	113	78	100+	

Handwritten signature and date 7/13/95

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 7, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-505018
Shipping # L0007, dated June 6, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1836874	4597	6.10	72	157	74	380	113	78	100+
1836875	4597	6.10	72	157	74	380	113	78	100+
1836876	4597	6.10	72	157	74	380	113	78	100+
1836894	4597	5.80	70	154	74	359	112	83	100+
1836895	4597	5.80	70	154	74	359	112	83	100+
36896	4597	5.80	70	154	74	359	112	83	100+
336898	4597	5.80	70	154	74	359	112	83	100+
1836925	4597	5.01	57	133	73	304	90	60	100+
1836928	4597	5.01	57	133	73	304	90	60	100+
1836929	4597	5.01	57	133	73	304	90	60	100+
1836937	4597	5.98	67	141	68	321	83	74	100+
1837381	4597	5.95	76	162	73	384	113	76	100+
1837382	4597	5.95	76	162	73	384	113	76	100+
1837383	4597	5.95	76	162	73	384	113	76	100+
1837385	4597	5.95	76	162	73	384	113	76	100+
1837386	4597	5.95	76	162	73	384	113	76	100+
1837427	4597	5.29	67	150	72	340	86	69	100+

9/2
7/13/95

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Geosynthetics

MEMORANDUM

Date: 14 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you on June 14 under manifest number 50614005. These letters cover rolls shipped from MLN 506091, 506101, 506111, 506121, and 506131.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-019.fax

RECEIVED
June 16/95
mz

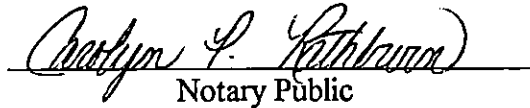
Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 14TH day of JUNE, 1995.


Notary Public

My Commission Expires May 7, 2000.



Date: June 14, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506091
Manifest No.: 50614005

ROLL(S) TESTED per MLN 506091

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50609903	0.423	27.4	78.0
50609906	0.428	27.8	77.8
50609910	0.422	28.1	77.8
50609913	0.438	30.3	77.8
50609917	0.425	28.0	77.8
50609919	0.422	27.4	77.8
50609921	0.422	27.5	78.0
Average	0.426	28.1	77.9
Max. Value	0.438	30.3	78.0
Min. Value	0.422	27.4	77.8
Std. Dev.	0.006	1.0	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50609922	5555	50514033	10462N	3439-5-9	E1338	50607005	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-132.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

Date: June 14, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506101
Manifest No.: 50614005

ROLL(S) TESTED per MLN 506101

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50610906	0.411	26.6	77.0
50610910	0.407	26.7	78.0
50610911	0.410	28.0	77.5
50610913	0.414	27.7	78.3
50610915	0.418	27.9	77.5
Average	0.412	27.4	77.6
Max. Value	0.418	28.0	78.3
Min. Value	0.407	26.6	77.0
Std. Dev.	0.004	0.7	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number Shipped	Colback Lot #	Roll number	PE Type	Lot	Amoco Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50610901	5555	50514035	10462N	3439-5-9	E1338	50607003	10462N	3439-5-9	I1712
50610902	5555	50514036	10462N	3439-5-9	E1338	50609026	10462N	3439-5-9	I1712
50610903	5555	50514034	10462N	3439-5-9	E1338	50608051	10462N	3439-5-9	I1712
50610904	5555	50514038	10462N	3439-5-9	E1338	50610023	10462N	3439-5-9	I1712
50610905	5555	50514004	10462N	3439-5-9	E1338	50507014	10462N	4714-4-9	I1712
50610907	5555	50610028	10462N	3439-5-9	HO369	50507015	10462N	4714-4-9	I1712
50610908	5555	50610029	10462N	3439-5-9	HO369	50607011	10462N	3439-5-9	E1375
50610909	5555	50610030	10462N	3439-5-9	HO369	50607007	10462N	3439-5-9	I1712
50610910	5555	50610031	10462N	3439-5-9	E1338	50607006	10462N	3439-5-9	I1712
50610911	5555	50610024	10462N	3439-5-9	E1338	50610021	10462N	3439-5-9	I1712
50610912	5555	50610025	10462N	3439-5-9	E1338	50606065	10462N	3439-5-9	I1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-133.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgfield Business Center
Ridgfield Court
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Asheville, NC 28802
Telephone (704) 663-5015
Telefax (704) 663-5003



Geosynthetics

Date: June 14, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506111
Manifest No.: 50614005

ROLL(S) TESTED per MLN 506111

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick.	Mass/ Unit Area	CORE WIDTH
	Inches	Total (oz/yd ²)	Inches
50611902	0.413	27.6	77.8
50611908	0.414	27.8	78.0
50611911	0.411	28.1	78.0
50611916	0.415	26.6	77.8
Average	0.413	27.7	77.9
Max. Value	0.415	28.1	78.0
Min. Value	0.411	26.6	77.8
Std. Dev.	0.002	0.7	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50611901	5555	50610041	10462N	3439-5-9	E1338	50606061	10462N	3439-5-9	I1712
50611903	5555	50610034	10462N	3439-5-9	E1338	50607013	10462N	3439-5-9	I1712
50611904	5555	50610035	10462N	3439-5-9	E1338	50607017	10462N	3439-5-9	I1712
50611905	5555	50514039	10462N	3439-5-9	E1338	50607014	10462N	3439-5-9	I1712
50611906	5555	50514037	10462N	3439-5-9	E1338	50605062	10462N	3439-5-9	I1712
50611908	5555	50514041	10462N	3439-5-9	E1338	50606057	10462N	3439-5-9	I1712
50611909	5555	50514043	10462N	3439-5-9	E1395	50606058	10462N	3439-5-9	I1712
50611910	5555	50514042	10462N	3439-5-9	E1395	50605010	10462N	3439-5-9	I1712
50611912	5555	50610038	10462N	3439-5-9	E1338	50605023	10462N	3439-5-9	I1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-134.nyc

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Asheville, NC 28802
Telephone: (704) 665-1111
Telex: 704-665-1111



Geosynthetics

Date: June 14, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506121
Manifest No.: 50614005

ROLL(S) TESTED per MLN 506121

ROLL No. TESTED	ASTM D1777 Composite Thick Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50612901	0.411	27.1	78.0
50612906	0.405	26.4	77.8
50612907	0.416	27.6	77.8
50612912	0.413	27.0	77.8
50612914	0.420	27.7	77.8
50612920	0.410	27.5	77.3
Average	0.413	27.2	77.7
Max. Value	0.420	27.7	78.0
Min. Value	0.405	26.4	77.3
Std. Dev.	0.005	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco		Amoco		Amoco		Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50612904	5555	50514050	10462N	3439-5-9	E1395	50606035	10462N	3439-5-9	I 1712
50612908	5555	50514010	10462N	3439-5-9	E1338	50606046	10462N	3439-5-9	I 1712
50612909	5555	50509018	10462N	4714-4-9	E1338	50606019	10462N	3439-5-9	I 1712
50612910	5555	50509019	10462N	4714-4-9	E1338	50605050	10462N	3439-5-9	I 1712
50612912	5555	50514052	10462N	3439-5-9	E1395	50608032	10462N	3439-5-9	I 1712
50612913	5555	50514018	10462N	3439-5-9	E1338	50606021	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-135.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 1249
Asheville, NC 28802
Tel: 704/665-5050
Tel: 704/665-5009



Geosynthetics

Date: June 14, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506131
Manifest No.: 50614005

ROLL(S) TESTED per MLN 506131

ROLL No. TESTED	ASTM D1777 Composite Thick Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50613901	0.415	27.8	77.8
50613904	0.415	27.8	78.3
50613906	0.409	27.2	77.8
50613909	0.422	27.9	78.0
50613912	0.429	28.3	77.5
50613919	0.414	27.7	77.5
Average	0.417	27.8	77.8
Max. Value	0.429	28.3	78.3
Min. Value	0.409	27.2	77.5
Std. Dev.	0.007	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback	Amoco								
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50613902	5555	50510016	10462N	4714-4-9	E1338	50606011	10462N	3439-5-9	I 1712	
50613908	5555	50509026	10462N	4714-4-9	E1338	50605046	10462N	3439-5-9	I 1712	
50613911	5555	50509021	10462N	4714-4-9	E1338	50606018	10462N	3439-5-9	I 1712	
50613912	5555	50509057	10462N	4714-4-9	H0369	50605042	10462N	3439-5-9	I 1712	
50613914	5555	50613007	10462N	3439-5-9	E1338	50605007	10462N	3439-5-9	I 1712	
50613915	5555	50613009	10462N	3439-5-9	E1338	50605024	10462N	3439-5-9	I 1712	
50613916	5555	50509024	10462N	4714-5-9	E1338	50605025	10462N	3439-5-9	I 1712	
50613918	5555	50613008	10462N	3439-5-9	E1338	50605029	10462N	3439-5-9	I 1712	
50613919	5555	50509025	10462N	4714-5-9	E1338	50605037	10462N	3439-5-9	I 1712	
50613922	5555	50613015	10462N	3439-5-9	E1338	50605036	10462N	3439-5-9	I 1712	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-131.nyc

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Asheville, NC 28802
Telephone: (704) 665-5050
Fax: (704) 665-5000



Geosynthetics

MEMORANDUM

Date: 14 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 6

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you on June 14 under manifest number 50614001. These letters cover rolls shipped from MLN 506091, 506101, 506111, and 506121.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-018.fax

RECEIVED
June 16/95
MS

* Replaces Faxed copy rec'd 14 June

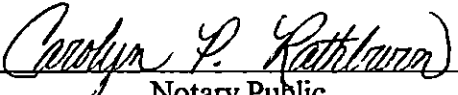
Akzo Nobel Geosynthetics Company
State 718 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Tel: (704) 665-5040
Fax: (704) 665-5043

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 14TH day of JUNE, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: June 14, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506091
Manifest No.: 50614001

ROLL(S) TESTED per MLN 506091

ROLL No.	ASTM D1777 Composite Thick	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50609903	0.423	27.4	78.0
50609906	0.428	27.8	77.8
50609910	0.422	28.1	77.8
50609913	0.438	30.3	77.8
50609917	0.425	28.0	77.8
50609919	0.422	27.4	77.8
50609921	0.422	27.5	78.0
Average	0.426	28.1	77.9
Max. Value	0.438	30.3	78.0
Min. Value	0.422	27.4	77.8
Std. Dev.	0.006	1.0	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback	Amoco								Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50609905	5555	50513071	10462N	3439-5-9	E1338	50607036	10462N	3439-5-9	I 1712	
50609906	5555	50514024	10462N	3439-5-9	E1338	50607053	10462N	3439-5-9	I 1712	
50609907	5555	50512052	10462N	3439-5-9	E1338	50608052	10462N	3439-5-9	I 1712	
50609908	5555	50514025	10462N	3439-5-9	E1338	50607020	10462N	3439-5-9	I 1712	
50609909	5555	50512044	10462N	3439-5-9	E1338	50607018	10462N	3439-5-9	I 1712	
50609910	5555	50512045	10462N	3439-5-9	E1338	50609017	10462N	3439-5-9	I 1712	
50609911	5555	50514027	10462N	3439-5-9	E1338	50609022	10462N	3439-5-9	I 1712	
50609912	5555	50514028	10462N	3439-5-9	E1338	50609021	10462N	3439-5-9	I 1712	
50609913	5555	50514029	10462N	3439-5-9	E1338	50609027	10462N	3439-5-9	I 1712	
50609914	5555	50514026	10462N	3439-5-9	E1338	50609028	10462N	3439-5-9	I 1712	
50609915	5555	50514006	10462N	3439-5-9	E1338	50609031	10462N	3439-5-9	I 1712	
50609916	5555	50514003	10462N	3439-5-9	E1338	50609025	10462N	3439-5-9	I 1712	
50609917	5555	50514002	10462N	3439-5-9	E1338	50609018	10462N	3439-5-9	I 1712	
50609918	5555	50513070	10462N	3439-5-9	E1338	50607019	10462N	3439-5-9	I 1712	
50609919	5555	50514001	10462N	3439-5-9	E1338	50609023	10462N	3439-5-9	I 1712	
50509920	5555	50514032	10462N	3439-5-9	E1338	50609019	10462N	3439-5-9	I 1712	
50609921	5555	50514005	10462N	3439-5-9	E1338	50609024	10462N	3439-5-9	I 1712	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-129.nyc

Akzo Nobel Geosynthetics Company
Suite 118 - 1st Floor - Business Center
Ridgely, MD
PO Box 19
As
5050
17



Date: June 14, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506101
Manifest No.: 50614001

ROLL(S) TESTED per MLN 506101

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50610906	0.411	26.6	77.0
50610910	0.407	26.7	78.0
50610911	0.410	28.0	77.5
50610913	0.414	27.7	78.3
50610915	0.418	27.9	77.5
Average	0.412	27.4	77.6
Max. Value	0.418	28.0	78.3
Min. Value	0.407	26.6	77.0
Std. Dev.	0.004	0.7	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback	Amoco								
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	Amoco
50610913	5555	50610026	10462N	3439-5-9	E1338	50607001	10462N	3439-5-9	I 1712	
50610914	5555	50610027	10462N	3439-5-9	HO369	50606064	10462N	3439-5-9	I 1712	
50610915	5555	50610032	10462N	3439-5-9	E1338	50606059	10462N	3439-5-9	I 1712	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-128.nyc

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Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7250
Asheville, NC 28802
Telephone: 704/635-5077
Telex: 446700 5009



Date: June 14, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506111
Manifest No.: 50614001

ROLL(S) TESTED per MLN 506111

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50611902	0.413	27.6	77.8
50611908	0.414	27.8	78.0
50611911	0.411	28.1	78.0
50611916	0.415	26.6	77.8
Average	0.413	27.7	77.9
Max. Value	0.415	28.1	78.0
Min. Value	0.411	26.6	77.8
Std. Dev.	0.002	0.7	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215				Single Width Source Rolls of Enkanet 4015					
Roll Number <u>Shipped</u>	Colback <u>Lot #</u>	Roll number	PE Type	Lot	Amoco <u>Ship #</u>	Roll Number	PE Type	Lot	Amoco <u>Ship #</u>
50611902	5555	50610040	10462N	3439-5-9	E1338	50606062	10462N	3439-5-9	I1712
50611907	5555	50514044	10462N	3439-5-9	E1395	50606060	10462N	3439-5-9	I1712
50611911	5555	50610039	10462N	3439-5-9	E1338	50605022	10462N	3439-5-9	I1712
50611914	5555	50610043	10462N	3439-5-9	E1338	50606038	10462N	3439-5-9	I1712
50611915	5555	50514045	10462N	3439-5-9	E1395	50606053	10462N	3439-5-9	I1712
50611918	5555	50514054	10462N	3439-5-9	E1338	50606040	10462N	3439-5-9	I1712
50611919	5555	50514048	10462N	3439-5-9	E1338	50606052	10462N	3439-5-9	I1712
50611920	5555	50514046	10462N	3439-5-9	E1338	50606039	10462N	3439-5-9	I1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-127.nyc

Akzo Nobel Geosynthetics Company
1800 Regent Business Center
P.O. Box 111
Akron, OH 44316-0111
(216) 386-1271
Fax: (216) 386-1272



Date: June 14, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506121
Manifest No.: 50614001

ROLL(S) TESTED per MLN 506121

ROLL No. TESTED	ASTM D1777 Composite Thick Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50612901	0.411	27.1	78.0
50612906	0.405	26.4	77.8
50612907	0.416	27.6	77.8
50612912	0.413	27.0	77.8
50612914	0.420	27.7	77.8
50612920	0.410	27.5	77.3
Average	0.413	27.2	77.7
Max. Value	0.420	27.7	78.0
Min. Value	0.405	26.4	77.3
Std. Dev.	0.005	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50612901	5555	50514056	10462N	3439-5-9	E1395	50606032	10462N	3439-5-9	I 1712
50612902	5555	50514049	10462N	3439-5-9	E1395	50606033	10462N	3439-5-9	I 1712
50612903	5555	50514007	10462N	3439-5-9	E1338	50606034	10462N	3439-5-9	I 1712
50612905	5555	50514051	10462N	3439-5-9	E1395	50606030	10462N	3439-5-9	I 1712
50612906	5555	50510021	10462N	4714-4-9	E1338	50606031	10462N	3439-5-9	I 1712
50612914	5555	50514019	10462N	3439-5-9	E1338	50608036	10462N	3439-5-9	I 1712
50612915	5555	50514020	10462N	3439-5-9	E1338	50608008	10462N	3439-5-9	I 1712
50612916	5555	50514008	10462N	3439-5-9	E1338	50606026	10462N	3439-5-9	I 1712
50612917	5555	50514017	10462N	3439-5-9	E1338	50608010	10462N	3439-5-9	I 1712
50612918	5555	50510019	10462N	4714-4-9	E1338	50608035	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-126.nyc

Akzo Nobel Geosynthetics Company
Suite 303 Ridgely Business Center
Ridgely, MD 21769
Phone: 410-280-1000
Fax: 410-280-1001



Geosynthetics

MEMORANDUM

Date: 16 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you on June 16 under manifest number 50616006. These letters cover rolls shipped from MLN 506111, 506131, 506141, 506151, and 506161.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-020.fax

RECEIVED	
CASHIN ASSOCIATES P.C.	
JUN 19 1995	
PROJECT NO.	
CONTRACT NO.	

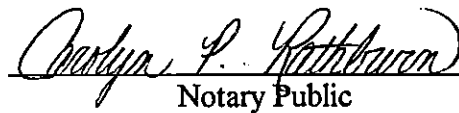
Akzo Nobel Geosynthetics Corporation
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Tel: (704) 665-5041
Fax: (704) 665-5043

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 16TH day of JUNE, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: June 16, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506111
Manifest No.: 50616006

ROLL(S) TESTED per MLN 506111

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick.	Mass/ Unit Area	CORE WIDTH
	Inches	Total (oz/yd ²)	Inches
50611902	0.413	27.6	77.8
50611908	0.414	27.8	78.0
50611911	0.411	28.1	78.0
50611916	0.415	26.6	77.8
Average	0.413	27.7	77.9
Max. Value	0.415	28.1	78.0
Min. Value	0.411	26.6	77.8
Std. Dev.	0.002	0.7	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					-----Single Width Source Rolls of Enkanet 4015-----				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
✓ 50611913	5555	50610033	10462N	3439-5-9	E1338	50606063	10462N	3439-5-9	I 1712
✓ 50611917	5555	50514053	10462N	3439-5-9	E1338	50606051	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-139.nyc

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Telex (704) 665 5099



Date: June 16, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506131
Manifest No.: 50616006

ROLL(S) TESTED per MLN 506131

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
✓ 50613901	0.415	27.8	77.8
✓ 50613904	0.415	27.8	78.3
✓ 50613906	0.409	27.2	77.8
✓ 50613909	0.422	27.9	78.0
50613912	0.429	28.3	77.5
50613919	0.414	27.7	77.5
Average	0.417	27.8	77.8
Max. Value	0.429	28.3	78.3
Min. Value	0.409	27.2	77.5
Std. Dev.	0.007	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		-----Single Width Source Rolls of Enkanet 4015-----								
Roll Number	Colback					Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	Amoco
✓ 50613901	5555	50510015	10462N	4714-4-9	E1338	50606012	10462N	3439-5-9	I 1712	
✓ 50613903	5555	50510018	10462N	4714-4-9	E1338	50606022	10462N	3439-5-9	I 1712	
✓ 50613905	5555	50510013	10462N	4714-4-9	E1338	50606023	10462N	3439-5-9	I 1712	
✓ 50613906	5555	50510011	10462N	4714-4-9	E1338	50606015	10462N	3439-5-9	I 1712	
✓ 50613907	5555	50509023	10462N	4714-4-9	E1338	50605041	10462N	3439-5-9	I 1712	
✓ 50613909	5555	50509028	10462N	4714-4-9	E1338	50606017	10462N	3439-5-9	I 1712	
✓ 50613910	5555	50510012	10462N	4714-4-9	E1338	50605045	10462N	3439-5-9	I 1712	
✓ 50613913	5555	50509029	10462N	4714-4-9	E1338	50608007	10462N	3439-5-9	I 1712	
✓ 50613921	5555	50613006	10462N	3439-5-9	E1338	50605055	10462N	3439-5-9	I 1712	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Telefax (704) 665 5009



Geosynthetics

Date: June 16, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506141
Manifest No.: 50616006

ROLL(S) TESTED per MLN 506141

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
✓ 50614902	0.408	27.1	78.0
50614904	0.409	27.3	78.0
✓ 50614910	0.415	27.6	77.5
✱ 50614916	0.404	26.6	78
Average	0.409	27.2	77.9
Max. Value	0.415	27.6	78.0
Min. Value	0.404	26.6	77.5
Std. Dev.	0.005	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width		Source Rolls of Enkanet 4015					
Roll Number	Colback	Roll number	PE Type	Lot	Amoco Ship #	Roll Number	PE Type	Lot	Amoco Ship #
✓ 50614901	5555	50613017	10462N	3439-5-9	E1338	50605035	10462N	3439-5-9	I 1712
✓ 50614902	5555	50613001	10462N	3439-5-9	E1338	50605026	10462N	3439-5-9	I 1712
✓ 50614903	5555	50613020	10462N	3439-5-9	HO369	50605027	10462N	3439-5-9	I 1712
✓ 50614905	5555	50613004	10462N	3439-5-9	E1338	50605043	10462N	3439-5-9	I 1712
✓ 50614908	5555	50614017	10462N	3439-5-9	E1395	50608002	10462N	3439-5-9	I 1712
✓ 50614910	5555	50614012	10462N	3439-5-9	E1395	50605059	10462N	3439-5-9	I 1712
✓ 50614911	5555	50614013	10462N	3439-5-9	E1395	50605060	10462N	3439-5-9	I 1712
✓ 50614912	5555	50614011	10462N	3439-5-9	E1395	50608053	10462N	3439-5-9	I 1712
✓ 50614913	5555	50614010	10462N	3439-5-9	E1395	50605033	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Telex (704) 665 5000



Date: June 16, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506151
Manifest No.: 50616006

ROLL(S) TESTED per MLN 506151

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
50615902	0.410	27.5	78.0
50615906	0.414	27.7	77.8
50615909	0.411	27.8	78.0
50615912	0.415	27.2	77.8
50615918	0.418	26.9	78.3
50615921	0.412	27.7	78.3
Average	0.413	27.4	78.0
Max. Value	0.418	27.8	78.3
Min. Value	0.410	26.9	77.8
Std. Dev.	0.003	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback				Amoco				Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50615910	5555	50515006	10062N	5548-4-3	E1338	50605030	10462N	3439-5-9	I 1712	
50615914	5555	50613019	10462N	3439-5-9	H0369	50605003	10462N	3439-5-9	I 1712	
50615915	5555	50515008	10462N	3439-5-9	E1338	50608006	10462N	3439-5-9	I 1712	
50615916	5555	50613029	10462N	3439-5-9	E1338	50605051	10462N	3439-5-9	I 1712	
50615917	5555	50417039	10462N	3145-5-9	E1338	50608021	10462N	3439-5-9	I 1712	
50615918	5555	50417037	10462N	3145-5-9	E1338	50608022	10462N	3439-5-9	I 1712	
50615919	5555	50417038	10462N	3145-5-9	E1338	50608023	10462N	3439-5-9	I 1712	
50615921	5555	50514015	10462N	3439-5-9	E1338	50608025	10462N	3439-5-9	I 1712	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

Date: June 16, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506161
Manifest No.: 50616006

ROLL(S) TESTED per MLN 506161

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50616902	0.401	27.3	77.5
50616904	0.410	27.6	77.5
50616909	0.408	27.4	77.5
Average	0.406	27.4	77.5
Max. Value	0.410	27.6	77.5
Min. Value	0.401	27.3	77.5
Std. Dev.	0.005	0.2	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					-----Single Width Source Rolls of Enkanet 4015-----				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50616901	5555	50614043	10462N	3439-5-9	E1395	50605054	10462N	3439-5-9	I1712
50616902	5555	50614044	10462N	3439-5-9	E1395	50605053	10462N	3439-5-9	I1712
50616903	5555	50614008	10462N	3439-5-9	M1096	50605052	10462N	3439-5-9	I1712
50616904	5555	50614009	10462N	3439-5-9	E1395	50604051	10462N	3439-5-9	I1712
50616905	5555	50614041	10462N	3439-5-9	E1395	50605002	10462N	3439-5-9	I1712
50616906	5555	50614042	10462N	3439-5-9	E1395	50604050	10462N	3439-5-9	I1712
50616907	5555	50509031	10462N	4714-4-9	E1338	50604048	10462N	3439-5-9	I1712
50616908	5555	50613028	10462N	3439-5-9	E1338	50605006	10462N	3439-5-9	I1712
50616909	5555	50614003	10462N	3439-5-9	M1096	50608026	10462N	3439-5-9	I1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-141.nyc

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Fax: (704) 665-5009



Geosynthetics

MEMORANDUM

Date: 20 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you on June 16 under manifest number 50620005. These letters cover rolls shipped from MLN 506131, 506141, 506151, 506161, and 506171.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-021.fax

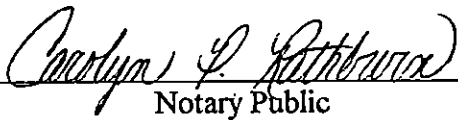
Akzo Nobel Geosynthetics Company
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Teletax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 20th day of June, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: June 20, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506131
Manifest No.: 50620005

ROLL(S) TESTED per MLN 506131

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50613901	0.415	27.8	77.8
50613904	0.415	27.8	78.3
50613906	0.409	27.2	77.8
50613909	0.422	27.9	78.0
50613912	0.429	28.3	77.5
50613919	0.414	27.7	77.5
Average	0.417	27.8	77.8
Max. Value	0.429	28.3	78.3
Min. Value	0.409	27.2	77.5
Std. Dev.	0.007	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50613920	5555	50613005	10462N	3439-5-9	E1338	50605038	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-149.nyc

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Telephone (704) 661-5000
Telex 170 1605 5000



Geosynthetics

Date: June 20, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506141
Manifest No.: 50620005

ROLL(S) TESTED per MLN 506141

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 CORE WIDTH
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50614902	0.408	27.1	78.0
50614904	0.409	27.3	78.0
50614910	0.415	27.6	77.5
50614916	0.404	26.6	78
Average	0.409	27.2	77.9
Max. Value	0.415	27.6	78.0
Min. Value	0.404	26.6	77.5
Std. Dev.	0.005	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		-----Single Width Source Rolls of Enkanet 4015-----								
Roll Number	Colback									
Shipped	Lot #	Roll number	PE Type	Lot	Amoco Ship #	Roll Number	PE Type	Lot	Amoco Ship #	
50614904	5555	50613003	10462N	3439-5-9	E1338	50605056	10462N	3439-5-9	I 1712	
50614906	5555	50614006	10462N	3439-5-9	M1096	50605044	10462N	3439-5-9	I 1712	
50614907	5555	50510014	10462N	4714-4-9	E1338	50606016	10462N	3439-5-9	I 1712	
50614909	5555	50614014	10462N	3439-5-9	E1395	50608004	10462N	3439-5-9	I 1712	
50614916	5555	50613023	10462N	3439-5-9	H0369	50608013	10462N	3439-5-9	I 1712	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-148.nyc

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Geosynthetics

Date: June 20, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506151
Manifest No.: 50620005

ROLL(S) TESTED per MLN 506151

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 CORE WIDTH <u>Inches</u>
-50615902	0.410	27.5	78.0
-50615906	0.414	27.7	77.8
-50615909	0.411	27.8	78.0
-50615912	0.415	27.2	77.8
50615918	0.418	26.9	78.3
50615921	0.412	27.7	78.3
Average	0.413	27.4	78.0
Max. Value	0.418	27.8	78.3
Min. Value	0.410	26.9	77.8
Std. Dev.	0.003	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback	Amoco								
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	Amoco
-50615901	5555	50613024	10462N	3439-5-9	H0369	50608012	10462N	3439-5-9	I 1712	
-50615902	5555	50613031	10462N	3439-5-9	M1096	50605064	10462N	3439-5-9	I 1712	
-50615903	5555	50613026	10462N	3439-5-9	H0369	50605063	10462N	3439-5-9	I 1712	
-50615905	5555	50614001	10462N	3439-5-9	M1096	50605058	10462N	3439-5-9	I 1712	
-50615906	5555	50613022	10462N	3439-5-9	H0369	50608014	10462N	3439-5-9	I 1712	
-50615909	5555	50416026	10062N	5548-4-3	E1338	50605009	10462N	3439-5-9	I 1712	
-50615911	5555	50513026	10062N	5548-4-3	E1338	50605061	10462N	3439-5-9	I 1712	
-50615912	5555	50417036	10462N	3145-5-9	E1338	50605031	10462N	3439-5-9	I 1712	
-50615913	5555	50515007	10462N	3439-5-9	E1338	50606043	10462N	3439-5-9	I 1712	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-147.nyc

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Telex 110000 AKZO



Geosynthetics

Date: June 20, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506161
Manifest No.: 50620005

ROLL(S) TESTED per MLN 506161

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50616902	0.401	27.3	77.5
50616904	0.410	27.6	77.5
50616909	0.408	27.4	77.5
50616912	0.415	26.6	77.8
Average	0.409	27.2	77.6
Max. Value	0.415	27.6	77.8
Min. Value	0.401	26.6	77.5
Std. Dev.	0.006	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
50616910	5555	50509030	10462N	4714-4-9	E1338	50604049	10462N	3439-5-9	I 1712
50616911	5555	50614005	10462N	3439-5-9	M1096	50604040	10462N	3439-5-9	I 1712
50616912	5555	50614004	10462N	3439-5-9	M1096	50608001	10462N	3439-5-9	I 1712
50616913	5555	50616932	10462N	3439-5-9	E1395	50608029	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-146.nyc

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Telex (704) 665-5009



Geosynthetics

Date: June 20, 1995

**LETTER of CERTIFICATION
PHYSICAL TEST RESULTS**

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506171
Manifest No.: 50620005.

ROLL(S) TESTED per MLN 506171

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
-50617912	0.415	27.0	77.8
-50617916	0.414	27.9	77.8
-50617922	0.411	27.2	78.0
Average	0.413	27.4	77.9
Max. Value	0.415	27.9	78.0
Min. Value	0.411	27.0	77.8
Std. Dev.	0.002	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
- 50617902	5555	50616052	10462N	3439-5-9	E1395	50607039	10462N	3439-5-9	I 1712
- 50617904	5555	50616047	10462N	3439-5-9	E1395	50607037	10462N	3439-5-9	I 1712
- 50617905	5555	50510004	10462N	4714-4-9	E1338	50604052	10462N	3439-5-9	I 1712
- 50617906	5555	50616045	10462N	3439-5-9	E1395	50608028	10462N	3439-5-9	I 1712
- 50617907	5145	50616053	10462N	3439-5-9	E1395	50604046	10462N	3439-5-9	I 1712
- 50617908	5145	50510005	10462N	4714-4-9	E1338	50605001	10462N	3439-5-9	I 1712
- 50617909	5145	50616054	10462N	3439-5-9	E1395	50605048	10462N	3439-5-9	I 1712
- 50617910	5145	50510007	10462N	4714-4-9	E1338	50604054	10462N	3439-5-9	I 1712
- 50617911	5145	50510008	10462N	4714-4-9	E1338	50607038	10462N	3439-5-9	I 1712
- 50617912	5145	50510010	10462N	4714-4-9	E1338	50604045	10462N	3439-5-9	I 1712
- 50617913	5145	50510009	10462N	4714-4-9	E1338	50604044	10462N	3439-5-9	I 1712
- 50617914	5145	50509038	10462N	4714-4-9	E1338	50604042	10462N	3439-5-9	I 1712
- 50617915	5145	50509040	10462N	4714-4-9	E1338	50608027	10462N	3439-5-9	I 1712
- 50617916	5555	50616002	10462N	3439-5-9	E1395	50604027	10462N	3439-5-9	I 1712
- 50617917	5555	50616003	10462N	3439-5-9	E1395	50604031	10462N	3439-5-9	I 1712
- 50617918	5555	50616004	10462N	3439-5-9	E1395	50604022	10462N	3439-5-9	I 1712
- 50617919	5555	50616005	10462N	3439-5-9	E1395	50604023	10462N	3439-5-9	I 1712

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Ashe, NC 28802
Telephone (704) 665-5050
Telex 170416655000



Geosynthetics

Date: June 20, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506171
Manifest No.: 50620005

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50617921	5555	50617021	10462N	3439-5-9	M1096	50610018	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-145.nyc



Geosynthetics

MEMORANDUM

Date: 21 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

Re: East Northport Project -- Letters of Certification

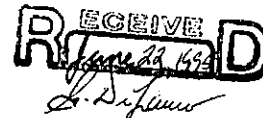
Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you on June 21 under manifest number 50621001. These letters cover rolls shipped from MLN 506151, 506171, 506181, and 506191. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-022.fax



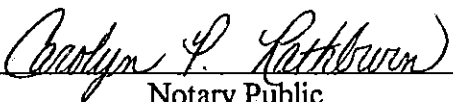
Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5046
Telefax: (704) 665-5049

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 21ST day of JUNE, 1995.



Notary Public,

My Commission Expires May 7, 2000.



Date: June 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506151
Manifest No.: 50621001

ROLL(S) TESTED per MLN 506151

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 CORE WIDTH Inches
50615902	0.410	27.5	78.0
50615906	0.414	27.7	77.8
50615909	0.411	27.8	78.0
50615912	0.415	27.2	77.8
50615918	0.418	26.9	78.3
50615921	0.412	27.7	78.3
Average	0.413	27.4	78.0
Max. Value	0.418	27.8	78.3
Min. Value	0.410	26.9	77.8
Std. Dev.	0.003	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215 -----Single Width Source Rolls of Enkanet 4015-----									
Roll Number	Colback			Amoco				Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50615908	5555	50515005	10462N	3439-5-9	E1338	50608015	10462N	3439-5-9	I1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-153.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Ashley, NC 28802
Phone: (919) 677-1050
Telex: 710555 AKZON



Date: June 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506171
Manifest No.: 50621001

ROLL(S) TESTED per MLN 506171

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50617912	0.415	27.0	77.8
50617916	0.414	27.9	77.8
50617922	0.411	27.2	78.0
Average	0.413	27.4	77.9
Max. Value	0.415	27.9	78.0
Min. Value	0.411	27.0	77.8
Std. Dev.	0.002	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50617903	5555	50616051	10462N	3439-5-9	E1395	50607040	10462N	3439-5-9	I 1712
50617920	5555	50509041	10462N	4714-4-9	E1395	50610017	10462N	3439-5-9	I 1712
50617922	5555	50617016	10462N	3439-5-9	M1096	50607049	10462N	3439-5-9	I 1712

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-154.nyc

Akzo Nobel Geosynthetics Company
S. 1318, Ridgely Business Center
P.O. Box 7249
Asheville, NC 28812
Tel: 704 255-5050
Fax: 704 255-5099



Geosynthetics

Date: June 21, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506181
Manifest No.: 50621001

ROLL(S) TESTED per MLN 506181

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
- 50618906	0.410	27.0	77.5
- 50618912	0.416	27.2	77.5
- 50618919	0.407	26.3	77.8
Average	0.411	26.8	77.6
Max. Value	0.416	27.2	77.8
Min. Value	0.407	26.3	77.5
Std. Dev.	0.005	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50618901	5555	50617017	10462N	3439-5-9	M1096	50604043	10462N	3439-5-9	I 1712
-50618902	5555	50617010	10462N	3439-5-9	E1395	50610020	10462N	3439-5-9	I 1712
- 50618904	5555	50613011	10462N	3439-5-9	E1338	50607055	10462N	3439-5-9	I 1712
- 50618905	5555	50617019	10462N	3439-5-9	M1096	50604047	10462N	3439-5-9	I 1712
-50618906	5555	50615019	10462N	3439-5-9	E1395	50610016	10462N	3439-5-9	I 1712
-50618908	5555	50615017	10462N	3439-5-9	E1395	50609056	10462N	3439-5-9	I 1712
-50618910	5555	50614052	10462N	3439-5-9	E1395	50609058	10462N	3439-5-9	I 1712
-50618911	5555	50614053	10462N	3439-5-9	E1395	50607050	10462N	3439-5-9	I 1712
-50618912	5555	50509039	10462N	4714-4-9	E1338	50604026	10462N	3439-5-9	I 1712
-50618913	5555	50614049	10462N	3439-5-9	E1395	50610014	10462N	3439-5-9	I 1712
-50618914	5555	50614054	10462N	3439-5-9	E1395	50609059	10462N	3439-5-9	I 1712
-50618915	5555	50614056	10462N	3439-5-9	E1395	50609053	10462N	3439-5-9	I 1712
-50618916	5555	50614050	10462N	3439-5-9	E1395	50609060	10462N	3439-5-9	I 1712
-50618917	5555	50614047	10462N	3439-5-9	E1395	50609054	10462N	3439-5-9	I 1712
-50618918	5555	50417040	10462N	3145-5-9	E1338	50618022	10462N	3439-5-9	I 1712

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Tel: (704) 665-5050
Fax: (704) 665-5099



Date: June 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506181
Manifest No.: 50621001

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
✓ 50618919	5555	50615001	10462N	3439-5-9	E1395	50609052	10462N	3439-5-9	I 1712
✓ 50618920	5555	50617007	10462N	3439-5-9	E1395	50618026	10462N	3439-5-9	I 1712
✓ 50618921	5555	50617008	10462N	3439-5-9	E1395	50618028	10462N	3439-5-9	I 1712
✓ 50618922	5555	50617005	10462N	3439-5-9	E1395	50618030	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-155.nyc



Date: June 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506191
Manifest No.: 50621001

ROLL(S) TESTED per MLN 506191

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50619902	0.407	27.1	77.5
50619909	0.418	27.7	77.8
50619917	0.415	27.3	77.5
50619920	0.415	27.9	77.5
Average	0.414	27.5	77.6
Max. Value	0.418	27.9	77.8
Min. Value	0.407	27.1	77.5
Std. Dev.	0.005	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number Shipped	Colback Lot #	Roll number	PE Type	Lot	Amoco Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50619901	5555	50617003	10462N	3439-5-9	E1395	50618023	10462N	3439-5-9	I 1717
50619902	5555	50615060	10462N	3439-5-9	E1395	50618024	10462N	3439-5-9	I 1717
50619903	5555	50616001	10462N	3439-5-9	E1395	50610009	10462N	3439-5-9	I 1717
50619904	5555	50615002	10462N	3439-5-9	E1395	50610010	10462N	3439-5-9	I 1717
50619907	5555	50615007	10462N	3439-5-9	E1395	50610012	10462N	3439-5-9	I 1717
50619909	5555	50615003	10462N	3439-5-9	E1395	50610006	10462N	3439-5-9	I 1717
50619911	5555	50617011	10462N	3439-5-9	E1395	50607052	10462N	3439-5-9	I 1717
50619913	5555	50614045	10462N	3439-5-9	E1395	50618025	10462N	3439-5-9	I 1717
50619914	5555	50615059	10462N	3439-5-9	E1395	50609061	10462N	3439-5-9	I 1717
50619916	5555	50615012	10462N	3439-5-9	E1395	50609047	10462N	3439-5-9	I 1717
50619918	5555	50617014	10462N	3439-5-9	M1096	50618020	10462N	3439-5-9	I 1717

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 692-1111
Telex: 170 537 5



Geosynthetics

Date: June 21, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506191
Manifest No.: 50621001

Enkanet 4215		-----Single Width Source Rolls of Enkanet 4015-----									
Roll Number	Colback					Amoco					Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #		
50619919	5555	50615057	10462N	3439-5-9	E1395	50618021	10462N	3439-5-9	I 1717		
50619920	5555	50617001	10462N	3439-5-9	E1395	50618027	10462N	3439-5-9	I 1717		
50619921	5555	50617002	10462N	3439-5-9	E1395	50618029	10462N	3439-5-9	I 1717		

R. Bowen / f.B.
R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-156.nyc



Geosynthetics

MEMORANDUM

Date: 23 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you on June 23 under manifest number 50622007. These letters cover rolls shipped from MLN 506181, 506191, 506201, and 506211.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-024.fax

RECEIVED

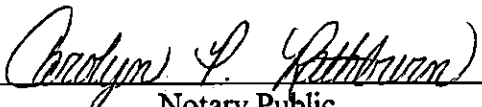
Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Tel: (704) 665-5040
Fax: (704) 665-5043

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 23RD day of JUNE, 1995.



Notary Public

My Commission Expires May 7, 2000.



Date: June 23, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506211
Manifest No.: 50622007

ROLL(S) TESTED per MLN 506211

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
✓50621903	0.418	27.0	77.5
✓50621906	0.410	27.3	77.5
✓50621908	0.402	27.5	78.0
✓50621917	0.417	28.9	77.8
✓50621920	0.411	27.1	78.0
Average	0.412	27.6	77.8
Max. Value	0.418	28.9	78.0
Min. Value	0.402	27.0	77.5
Std. Dev.	0.006	0.8	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
✓50621901	5555	50615053	10462N	3439-5-9	E1395	50609043	10462N	3439-5-9	I 1712
✓50621902	5252	50615010	10462N	3439-5-9	E1395	50609044	10462N	3439-5-9	I 1712
✓50621903	5252	50615052	10462N	3439-5-9	E1395	50618007	10462N	3439-5-9	I 1712
✓50621904	5252	50618002	10462N	3439-5-9	M1096	50610005	10462N	3439-5-9	I 1712
✓50621905	5252	50615054	10462N	3439-5-9	E1395	50609037	10462N	3439-5-9	I 1712
✓50621906	5252	50615049	10462N	3439-5-9	E1395	50618008	10462N	3439-5-9	I 1712
✓50621907	5252	50615050	10462N	3439-5-9	E1395	50609042	10462N	3439-5-9	I 1712
✓50621908	5252	50616042	10462N	3439-5-9	E1395	50609041	10462N	3439-5-9	I 1712
✓50621911	5252	50615046	10462N	3439-5-9	E1395	50609035	10462N	3439-5-9	I 1712
✓50621912	5252	50616039	10462N	3439-5-9	M1096	50609036	10462N	3439-5-9	I 1712
✓50621914	5252	50615042	10462N	3439-5-9	E1395	50607044	10462N	3439-5-9	I 1712
✓50621915	5252	50615044	10462N	3439-5-9	E1395	50609034	10462N	3439-5-9	I 1712
✓50621916	5252	50616041	10462N	3439-5-9	E1395	50607046	10462N	3439-5-9	I 1712

Akzo Nobel Geosynthetics Company
318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Phone: (704) 665-5050
Fax: (704) 665-5000



AKZO NOBEL

Date: June 23, 1995

LETTER OF CERTIFICATION
PHYSICAL TEST RESULTS

Geosynthetics

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506211
Manifest No.: 50622007

Enkanet 4215					Single Width Source Rolls of Enkanet 4015					
Roll Number	Colback				Amoco					Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
~50621917	5252	50615037	10462N	3439-5-9	E1395	50609006	10462N	3439-5-9	I 1712	
- 50621918	5252	50615038	10462N	3439-5-9	E1395	50609007	10462N	3439-5-9	I 1712	
~50621919	5252	50615039	10462N	3439-5-9	E1395	50609014	10462N	3439-5-9	I 1712	
~50621920	5252	50615040	10462N	3439-5-9	E1395	50609009	10462N	3439-5-9	I 1712	

R.D. Bowen / RB

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-160yc



Geosynthetics

Date: June 23, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506201
Manifest No.: 50622007

ROLL(S) TESTED per MLN 506201

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
-50620902	0.414	28.5	78.0
-50620905	0.420	28.4	78.0
-50620910	0.417	27.3	78.0
-50620913	0.419	27.5	77.5
Average	0.418	27.9	77.9
Max. Value	0.420	28.5	78.0
Min. Value	0.414	27.3	77.5
Std. Dev.	0.003	0.6	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215

Single Width Source Rolls of Enkanet 4015

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
-50620901	5555	50615014	10462N	3439-5-9	E1395	50609050	10462N	3439-5-9	I 1712
-50620902	5555	50614046	10462N	3439-5-9	E1395	50610004	10462N	3439-5-9	I 1712
-50620903	5555	50615013	10462N	3439-5-9	E1395	50609049	10462N	3439-5-9	I 1712
-50620904	5555	50618001	10462N	3439-5-9	M1096	50610002	10462N	3439-5-9	I 1712
-50620905	5555	50617013	10462N	3439-5-9	M1096	50610001	10462N	3439-5-9	I 1712
-50620906	5555	50615011	10462N	3439-5-9	E1395	50618012	10462N	3439-5-9	I 1712
-50620907	5555	50615008	10462N	3439-5-9	E1395	50618019	10462N	3439-5-9	I 1712
-50620908	5555	50616050	10462N	3439-5-9	E1395	50618017	10462N	3439-5-9	I 1712
-50620909	5555	50615009	10462N	3439-5-9	E1395	50618018	10462N	3439-5-9	I 1712
-50620910	5555	50615055	10462N	3439-5-9	E1395	50618015	10462N	3439-5-9	I 1712
-50620911	5555	50616048	10462N	3439-5-9	E1395	50618014	10462N	3439-5-9	I 1712
-50620912	5555	50616049	10462N	3439-5-9	E1395	50618013	10462N	3439-5-9	I 1712
-50620913	5555	50616044	10462N	3439-5-9	E1395	50618016	10462N	3439-5-9	I 1712
-50620914	5555	50616043	10462N	3439-5-9	E1395	50609038	10462N	3439-5-9	I 1712

R.D. Bowen
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Manager, Quality Control & Assurance
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Date: June 23 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506191
Manifest No.: 50622007

ROLL(S) TESTED per MLN 506191

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50619902	0.407	27.1	77.5
50619909	0.418	27.7	77.8
50619917	0.415	27.3	77.5
50619920	0.415	27.9	77.5
Average	0.414	27.5	77.6
Max. Value	0.418	27.9	77.8
Min. Value	0.407	27.1	77.5
Std. Dev.	0.005	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
- 50619905	5555	50617004	10462N	3439-5-9	E1395	50604038	10462N	3439-5-9	I 1712
- 50619906	5555	50615016	10462N	3439-5-9	E1395	50609057	10462N	3439-5-9	I 1712
- 50619915	5555	50615058	10462N	3439-5-9	E1395	50610003	10462N	3439-5-9	I 1712
- 50619917	5555	50615056	10462N	3439-5-9	E1395	50609048	10462N	3439-5-9	I 1712

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Date: June 23, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506181
Manifest No.: 50622007

ROLL(S) TESTED per MLN 506181

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50618906	0.410	27.0	77.5
50618912	0.416	27.2	77.5
50618919	0.407	26.3	77.8
Average	0.411	26.8	77.6
Max. Value	0.416	27.2	77.8
Min. Value	0.407	26.3	77.5
Std. Dev.	0.005	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					-----Single Width Source Rolls of Enkanet 4015-----				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
- 50618903	5555	50617018	10462N	3439-5-9	M1096	50604029	10462N	3439-5-9	I 1712
- 50618924	5555	50614048	10462N	3439-5-9	E1395	50610013	10462N	3439-5-9	I 1712

R.D. Bowen
R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

MEMORANDUM

Date: 27 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 10

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you on June 27 under manifest number 50626003. These letters cover rolls shipped from MLN 506151, 506171, 506191, 506211, 506221, 506231, and 506251. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-025.fax

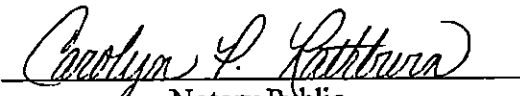
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NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 27TH day of JUNE, 1995.


Notary Public

My Commission Expires May 7, 2000.



Date: June 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506171
Manifest No.: 50626003

ROLL(S) TESTED per MLN 506171

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50617912	0.415	27.0	77.8
50617916	0.414	27.9	77.8
50617922	0.411	27.2	78.0
Average	0.413	27.4	77.9
Max. Value	0.415	27.9	78.0
Min. Value	0.411	27.0	77.8
Std. Dev.	0.002	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					-----Single Width Source Rolls of Enkanet 4015-----				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
- 50617923	5555	50617009	10462N	3439-5-9	E1395	50610019	10462N	3439-5-9	I 1712

R. Bowen / RB

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

Date: June 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506251
Manifest No.: 50626003

ROLL(S) TESTED per MLN 506251

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50625903	0.412	28.0	78.0
- 50625906	0.419	28.6	77.8
- 50625909	0.416	27.4	77.8
Average	0.416	28.0	77.9
Max. Value	0.419	28.6	78.0
Min. Value	0.412	27.4	77.8
Std. Dev.	0.004	0.6	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Amoco Ship #</u>
-50625906	5254	50616018	10462N	3439-5-9	E1395	50604007	10462N	3439-5-9	I 1712
-50625907	5254	50613016	10462N	3439-5-9	E1338	50604015	10462N	3439-5-9	I 1712
-50625908	5254	50515001	10462N	3439-5-9	E1395	50604006	10462N	3439-5-9	I 1712
-50625909	5254	50618003	10462N	3439-5-9	M1096	50604004	10462N	3439-5-9	I 1712
-50625910	5254	50614057	10462N	3439-5-9	E1395	50604021	10462N	3439-5-9	I 1712

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Manager, Quality Control & Assurance
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Date: June 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506231
Manifest No.: 50626003

ROLL(S) TESTED per MLN 506231

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50623902	0.424	28.1	78.0
50623904	0.421	28.8	77.5
50623908	0.414	27.8	78.0
50623921	0.420	28.1	78.0
Average	0.420	28.2	77.9
Max. Value	0.424	28.8	78.0
Min. Value	0.414	27.5	77.5
Std. Dev.	0.004	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Amoco Ship #</u>
-50623901	5252	50615032	10462N	3439-5-9	E1395	50609012	10462N	3439-5-9	I 1712
- 50623902	5252	50615035	10462N	3439-5-9	E1395	50608047	10462N	3439-5-9	I 1712
-50623903	5252	50615036	10462N	3439-5-9	E1395	50609010	10462N	3439-5-9	I 1712
- 50623905	5252	50616024	10462N	3439-5-9	E1395	50609030	10462N	3439-5-9	I 1712
- 50623909	5252	50616020	10462N	3439-5-9	E1395	50607041	10462N	3439-5-9	I 1712
- 50623910	5252	50615021	10462N	3439-5-9	E1395	50604030	10462N	3439-5-9	I 1712
-50623911	5252	50616014	10462N	3439-5-9	E1395	50604024	10462N	3439-5-9	I 1712
- 50623913	5252	50616012	10462N	3439-5-9	E1395	50604025	10462N	3439-5-9	I 1712
- 50623914	5252	50616013	10462N	3439-5-9	E1395	50607042	10462N	3439-5-9	I 1712
- 50623915	5252	50616023	10462N	3439-5-9	E1395	50609029	10462N	3439-5-9	I 1712
-50623916	5252	50615048	10462N	3439-5-9	E1395	50609046	10462N	3439-5-9	I 1712

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Date: June 26, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506231
Manifest No.:

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50623917	5252	50615051	10462N	3439-5-9	E1395	50609045	10462N	3439-5-9	I1712
-50623918	5252	50616006	10462N	3439-5-9	E1395	50607045	10462N	3439-5-9	I1712
-50623919	5252	50616007	10462N	3439-5-9	E1395	50604039	10462N	3439-5-9	I1712
-50623920	5252	50616011	10462N	3439-5-9	M1096	50604010	10462N	3439-5-9	I1712

R. Bowen / RB

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-171nyc



Geosynthetics

Date: June 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506221
Manifest No.: 50626003

ROLL(S) TESTED per MLN 506221

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
-50622901	0.406	27.9	77.8
-50622904	0.419	27.6	78.0
-50622910	0.426	28.1	78.0
50622916	0.421	27.5	77.8
Average	0.418	27.8	77.9
Max. Value	0.426	28.1	78.0
Min. Value	0.406	27.5	77.8
Std. Dev.	0.009	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50622901	5252	50615030	10462N	3439-5-9	E1395	50609008	10462N	3439-5-9	I1712
-50622902	5252	50616036	10462N	3439-5-9	M1096	50609002	10462N	3439-5-9	I1712
-50622904	5252	50616038	10462N	3439-5-9	M1096	50609001	10462N	3439-5-9	I1712
-50622905	5252	50615033	10462N	3439-5-9	E1395	50618009	10462N	3439-5-9	I1712
-50622906	5252	50615029	10462N	3439-5-9	E1395	50609016	10462N	3439-5-9	I1712
-50622907	5252	50615028	10462N	3439-5-9	E1395	50608054	10462N	3439-5-9	I1712
-50622908	5252	50615027	10462N	3439-5-9	E1395	50618010	10462N	3439-5-9	I1712
-50622910	5252	50615022	10462N	3439-5-9	E1395	50609004	10462N	3439-5-9	I1712
-50622914	5252	50616027	10462N	3439-5-9	E1395	50608049	10462N	3439-5-9	I1712
-50622915	5252	50616028	10462N	3439-5-9	E1395	50608042	10462N	3439-5-9	I1712

R.D. Bowen / RB

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Geosynthetics

Date: June 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506211
Manifest No.: 50626003

ROLL(S) TESTED per MLN 506211

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50621903	0.418	27.0	77.5
50621906	0.410	27.3	77.5
50621908	0.402	27.5	78.0
50621917	0.417	28.9	77.8
50621920	0.411	27.1	78.0
Average	0.412	27.6	77.8
Max. Value	0.418	28.9	78.0
Min. Value	0.402	27.0	77.5
Std. Dev.	0.006	0.8	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
~50621921	5252	50616034	10462N	3439-5-9	E1395	50609013	10462N	3439-5-9	I 1712
~50621922	5252	50616035	10462N	3439-5-9	E1395	50609015	10462N	3439-5-9	I 1712

R.D. Bowen
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Geosynthetics

Date: June 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506191
Manifest No.: 50626003

ROLL(S) TESTED per MLN 506191

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50619902	0.407	27.1	77.5
50619909	0.418	27.7	77.8
50619917	0.415	27.3	77.5
50619920	0.415	27.9	77.5
Average	0.414	27.5	77.6
Max. Value	0.418	27.9	77.8
Min. Value	0.407	27.1	77.5
Std. Dev.	0.005	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					-----Single Width Source Rolls of Enkanet 4015-----				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
-50619908	5555	50615006	10462N	3439-5-9	E1395	50610008	10462N	3439-5-9	I 1717
-50619910	5555	50615005	10462N	3439-5-9	E1395	50609051	10462N	3439-5-9	I 1717
-50619912	5555	50615004	10462N	3439-5-9	E1395	50607051	10462N	3439-5-9	I 1717

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Date: June 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506151
Manifest No.: 50626003

ROLL(S) TESTED per MLN 506151

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/vd ²)	ASTM D3774 CORE WIDTH Inches
50615902	0.410	27.5	78.0
50615906	0.414	27.7	77.8
50615909	0.411	27.8	78.0
50615912	0.415	27.2	77.8
50615918	0.418	26.9	78.3
50615921	0.412	27.7	78.3
Average	0.413	27.4	78.0
Max. Value	0.418	27.8	78.3
Min. Value	0.410	26.9	77.8
Std. Dev.	0.003	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					-----Single Width Source Rolls of Enkanet 4015-----				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50615907	5555	50613027	10462N	3439-5-9	E1338	50605011	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
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Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Geosynthetics

June 29, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Laboratory Conformance Results for Colback Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Attached please find the laboratory conformance results conducted on Colback ND120 by GeoSyntec Consultants, Boca Raton, Florida.

This lot (#5252) meets the revised Minimum Roll Average Values project specifications for the nonwoven, heat-bonded geotextile recommended by Mr. Cargill in his letter dated May 4, 1995 addressed to Mr. Gladysz of Cashin Associates, P.C.

Lot #5252 has been used on finished rolls of Enkanet 4215-102-0000 already shipped to the site and also will be used for future production of Enkanet 4215. Please note that all Letters of Certification from Akzo Nobel include the Colback lot # that was used for each finished roll of Enkanet 4215-102-0000 shipped to the project site.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-181.nyc

JD
7/13/95

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



GEO SYNTEC CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEO SYNTEC JOB NO.: FLQ5881

CLIENT ID: Colback ND120/ LOT # 5752
DATE TESTED: 06/23/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
113.4	119.8	114.2	119.8	118.1	112.8	118.0	116.7	117.6	113.9
3.3	3.5	3.4	3.5	3.5	3.3	3.5	3.4	3.5	3.4
0.58	0.57	0.60	0.50	0.56	0.51	0.56	0.52	0.55	0.49
22.8	22.4	23.6	19.7	22.0	20.1	22.0	20.5	21.7	19.3
191.7	159.8	202.7	168.6	188.1	170.8	170.3	189.0	149.4	189.1
197.0	178.4	172.6	219.6	164.2	171.7	184.2	173.1	236.4	163.1
60.3	56.6	61.5	58.0	65.6	53.6	56.3	69.6	54.0	62.2
61.7	50.1	62.2	74.8	52.8	62.2	68.6	54.9	25.7	66.6
56.4	68.3	47.9	55.7	35.6	56.8	56.3	50.4	49.6	36.0
45.7	52.9	67.1	49.5	60.9	42.4	61.5	61.5	52.3	43.9
168	172	162	202	176	176	160	186	188	178
43.4	53.8	52.3	54.8	72.4	85.5	69.5	66.8	79.1	
0.361	0.284	0.293	0.296	0.295					
40	50	50	50	50					
3.337	3.139	2.881	3.381						
245.7	231.1	212.1	248.9						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ² oz/yd ²	116.4 3.4	2.65 0.08		
THICKNESS (ASTM D1777)	mm mil	0.54 21.4	0.037 1.45		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		178.0	16.64		
XD		186.0	24.50		
GRAB ELONGATION (ASTM D4632)	%				
RD		60.1	5.32		
XD		58.9	13.30		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		51.3	9.92		
XD		52.8	8.22		
MULLEN BURST STRENGTH (ASTM D3786)	psi	177	12.7		
PUNCTURE STRENGTH (ASTM D4833)	lb	64.0	13.12		
APPARENT OPENING SIZE (ASTM D4751)	mm sieve no.*	0.306 40	0.0312 N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	3.185	0.2281		
FLOW RATE (ASTM D4491)	gal/min ft ²	234.5	16.79		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

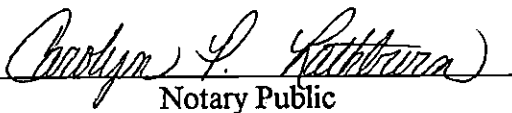
© 1995 GEO SYNTEC CONSULTANTS

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 29th day of June, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: 29 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 6

Re: East Northport Project -- Amoco Style 4597 Laboratory Results

Dear Steve:

Attached are the laboratory results and Letter of Certification for Amoco Style 4597 shipped to us on June 22, 1995 under Shipping # K1490. Product from this Shipping # will be used to fabricate future rolls of Enkanet 4215-102-0000. You will be able to determine when this new Shipping # of Amoco 4597 is being used on finished rolls of Enkanet 4215-102-0000 as all Akzo Nobel Letters of Certification list this information for every roll of Enkanet 4215-102-0000 shipped to your site.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-027.fax

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 29th day of June, 1995.



Notary Public

My Commission Expires May 7, 2000.



05000000

'95 JUN 29 A9:20

AKZO

Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 23, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

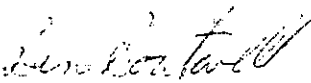
Re: Purchase Order # 85-5056026

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # K1490, dated June 22, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	250	310
Puncture, lbs.	ASTM-D-4833 (Modi)	75	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, %* (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.


Bennie J. Boutwell
Quality Control Manager
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 23, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-5056026
Shipping # K1490, dated June 22, 1995

Piece		Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear	A.O.S.
1598795	4597	5.21	59	141	76	351	121	57	100+	
1598796	4597	5.21	59	141	76	351	121	57	100+	
1598797	4597	5.21	59	141	76	351	121	57	100+	
1598798	4597	5.02	60	138	83	338	128	62	100+	
1598799	4597	5.02	60	138	83	338	128	62	100+	
1598800	4597	5.02	60	138	83	338	128	62	100+	
1598812	4597	5.02	59	134	73	292	123	57	100+	
1598814	4597	5.02	59	134	73	292	123	57	100+	
1598815	4597	5.02	59	134	73	292	123	57	100+	
1598819	4597	5.02	60	138	83	338	128	62	100+	
1598820	4597	5.02	60	138	83	338	128	62	100+	
1598821	4597	5.02	60	138	83	338	128	62	100+	
1598859	4597	4.99	55	140	72	336	121	55	100+	
1598860	4597	4.99	55	140	72	336	121	55	100+	
1598861	4597	4.99	55	140	72	336	121	55	100+	
1598868	4597	5.02	59	134	73	292	123	57	100+	
1598869	4597	5.02	59	134	73	292	123	57	100+	
1598870	4597	5.02	59	134	73	292	123	57	100+	
1598871	4597	4.99	55	140	72	336	121	55	100+	
1598873	4597	4.99	55	140	72	336	121	55	100+	
1747292	4597	5.18	66	169	61	346	122	85	100+	
1747293	4597	5.18	66	169	61	346	122	85	100+	
1747294	4597	5.18	66	169	61	346	122	85	100+	
1747295	4597	5.18	66	169	61	346	122	85	100+	
1747327	4597	4.99	69	158	70	370	106	83	100+	
1747328	4597	4.99	69	158	70	370	106	83	100+	
1747329	4597	4.99	69	158	70	370	106	83	100+	
1747330	4597	4.99	69	158	70	370	106	83	100+	
1747362	4597	4.99	69	158	70	370	106	83	100+	

Handwritten signature
7/13/95

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 23, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-5056026
Shipping # K1490, dated June 22, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1747363	4597	4.99	69	158	70	370	106	83	100+
1747365	4597	4.99	69	158	70	370	106	83	100+
1747373	4597	5.00	70	158	68	308	117	88	100+
1747374	4597	5.00	70	158	68	308	117	88	100+
1747375	4597	5.00	70	158	68	308	117	88	100+
1747376	4597	5.00	70	158	68	308	117	88	100+
1747392	4597	5.00	70	158	68	308	117	88	100+
1747393	4597	5.00	70	158	68	308	117	88	100+
1747395	4597	5.00	70	158	68	308	117	88	100+
1747397	4597	5.00	70	158	68	308	117	88	100+
1747412	4597	5.09	65	149	81	397	116	83	100+
1747413	4597	5.09	65	149	81	397	116	83	100+
1747414	4597	5.09	65	149	81	397	116	83	100+
1747415	4597	5.09	65	149	81	397	116	83	100+
1747416	4597	5.09	65	149	81	397	116	83	100+
1747417	4597	5.09	65	149	81	397	116	83	100+
1747418	4597	5.09	65	149	81	397	116	83	100+
1747419	4597	5.09	65	149	81	397	116	83	100+
1747424	4597	5.04	70	138	75	300	88	81	100+
1747425	4597	5.04	70	138	75	300	88	81	100+
1747426	4597	5.04	70	138	75	300	88	81	100+
1747432	4597	5.04	70	138	75	300	88	81	100+
1747433	4597	5.04	70	138	75	300	88	81	100+
1747434	4597	5.04	70	138	75	300	88	81	100+
1747435	4597	5.04	70	138	75	300	88	81	100+
1747468	4597	5.18	74	163	67	330	116	91	100+
1747469	4597	5.18	74	163	67	330	116	91	100+
1747470	4597	5.18	74	163	67	330	116	91	100+
1747471	4597	5.18	74	163	67	330	116	91	100+
1747480	4597	5.23	70	145	67	338	111	80	100+

Q2
7/13/95

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 23, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-5056026
Shipping # K1490, dated June 22, 1995

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.2 Oz.								
1747481	4597	5.23	70	145	67	338	111	80	100+	
1747482	4597	5.23	70	145	67	338	111	80	100+	
1747483	4597	5.23	70	145	67	338	111	80	100+	
1747498	4597	5.23	70	145	67	338	111	80	100+	
1747499	4597	5.23	70	145	67	338	111	80	100+	
747500	4597	5.23	70	145	67	338	111	80	100+	
747501	4597	5.23	70	145	67	338	111	80	100+	
1747502	4597	5.18	74	163	67	330	116	91	100+	
1747503	4597	5.18	74	163	67	330	116	91	100+	
1747504	4597	5.18	74	163	67	330	116	91	100+	
1747505	4597	5.18	74	163	67	330	116	91	100+	
1747536	4597	4.86	72	143	63	313	83	94	100+	
1747539	4597	4.86	72	143	63	313	83	94	100+	
1747540	4597	4.72	68	149	72	363	119	76	100+	
1747541	4597	4.72	68	149	72	363	119	76	100+	
1747542	4597	4.72	68	149	72	363	119	76	100+	
1747543	4597	4.72	68	149	72	363	119	76	100+	
1747819	4597	4.82	71	151	67	266	83	104	100+	
1747821	4597	4.82	71	151	67	266	83	104	100+	
1747843	4597	4.88	65	140	68	288	84	76	100+	
1747844	4597	4.88	65	140	68	288	84	76	100+	
1747846	4597	4.88	65	140	68	288	84	76	100+	
1747883	4597	4.87	68	155	69	356	105	83	100+	
1747884	4597	4.87	68	155	69	356	105	83	100+	
1747885	4597	4.87	68	155	69	356	105	83	100+	
1811021	4597	5.61	81	145	78	333	115	51	100+	
1836940	4597	5.98	67	141	68	321	83	74	100+	
1836941	4597	5.98	67	141	68	321	83	74	100+	
1836944	4597	5.38	60	137	69	297	89	68	100+	
1836945	4597	5.38	60	137	69	297	89	68	100+	

Handwritten:
JG
7/13/95

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 23, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-5056026
Shipping # K1490, dated June 22, 1995

Piece		Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
1836946	4597	5.38	60	137	69	297	89	68	100+	
1836947	4597	5.38	60	137	69	297	89	68	100+	
1836948	4597	5.38	60	137	69	297	89	68	100+	
1836949	4597	5.80	65	151	76	342	103	69	100+	
1836950	4597	5.80	65	151	76	342	103	69	100+	
1836951	4597	5.80	65	151	76	342	103	69	100+	
1836952	4597	5.80	65	151	76	342	103	69	100+	
1836953	4597	5.80	65	151	76	342	103	69	100+	
1837384	4597	5.95	76	162	73	384	113	76	100+	
1837422	4597	5.29	67	150	72	340	86	69	100+	
1837423	4597	5.29	67	150	72	340	86	69	100+	
1837424	4597	5.29	67	150	72	340	86	69	100+	
1837425	4597	5.29	67	150	72	340	86	69	100+	
1837426	4597	5.29	67	150	72	340	86	69	100+	
1837431	4597	5.66	65	153	80	344	93	60	100+	
1837432	4597	5.66	65	153	80	344	93	60	100+	
1837433	4597	5.66	65	153	80	344	93	60	100+	
1837434	4597	5.66	65	153	80	344	93	60	100+	
1837435	4597	5.66	65	153	80	344	93	60	100+	
1837436	4597	5.66	65	153	80	344	93	60	100+	
1837443	4597	5.34	64	154	69	318	106	70	100+	
1837444	4597	5.34	64	154	69	318	106	70	100+	
1837445	4597	5.34	64	154	69	318	106	70	100+	
1837446	4597	5.34	64	154	69	318	106	70	100+	
1837447	4597	5.34	64	154	69	318	106	70	100+	
1837448	4597	5.34	64	154	69	318	106	70	100+	

[Handwritten signature]
7/13/95

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TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Geosynthetics

MEMORANDUM

Date: 29 June 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you on June 29 under manifest number 50629001. These letters cover rolls shipped from MLN 506211, 506221, 506231, 506241, 506251, 506271, and 506281. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-026.fax

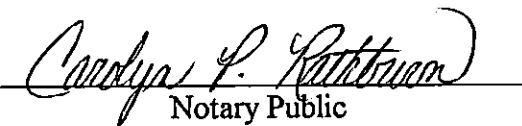
Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 29th day of June, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: June 29, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506211
Manifest No.: 50629001

ROLL(S) TESTED per MLN 506211

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick.	Mass/ Unit Area	Core Width
	Inches	Total (oz/yd²)	Inches
Pre 50621903	0.418	27.0	77.5
Pre 50621906	0.410	27.3	77.5
Pre 50621908	0.402	27.5	78.0
Pre 50621917	0.417	28.9	77.8
Pre 50621920	0.411	27.1	78.0
Average	0.412	27.6	77.8
Max. Value	0.418	28.9	78.0
Min. Value	0.402	27.0	77.5
Std. Dev.	0.006	0.8	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll Number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50621908	5252	50616042	10462N	3439-5-9	E1395	50609041	10462N	3439-5-9	11712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-175.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

Date: June 29, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506221
Manifest No.: 50629001

ROLL(S) TESTED per MLN 506221

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50622901	0.406	27.9	77.8
50622904	0.419	27.6	78.0
50622910	0.426	28.1	78.0
50622916	0.421	27.5	77.8
Average	0.418	27.8	77.9
Max. Value	0.426	28.1	78.0
Min. Value	0.406	27.5	77.8
Std. Dev.	0.009	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50622909	5252	50615025	10462N	3439-5-9	E1395	50608046	10462N	3439-5-9	I1712
50622911	5252	50615023	10462N	3439-5-9	E1395	50609005	10462N	3439-5-9	I1712
50622912	5252	50616029	10462N	3439-5-9	E1395	50608050	10462N	3439-5-9	I1712
50622913	5252	50616030	10462N	3439-5-9	E1395	50608044	10462N	3439-5-9	I1712
50622916	5252	50616025	10462N	3439-5-9	E1395	50608041	10462N	3439-5-9	I1712
50622917	5252	50616026	10462N	3439-5-9	E1395	50608037	10462N	3439-5-9	I1712
50622918	5252	50615031	10462N	3439-5-9	E1395	50608038	10462N	3439-5-9	I1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

Date: June 29, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506231
Manifest No.: 50629001

ROLL(S) TESTED per MLN 506231

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50623902	0.424	28.1	78.0
- 50623904	0.421	28.8	77.5
50623908	0.414	27.8	78.0
-50623921	0.420	28.1	78.0
Average	0.420	28.2	77.9
Max. Value	0.424	28.8	78.0
Min. Value	0.414	27.5	77.5
Std. Dev.	0.004	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
-50623904	5252	50615026	10462N	3439-5-9	E1395	50608045	10462N	3439-5-9	I 1712
-50623906	5252	50616022	10462N	3439-5-9	E1395	50607048	10462N	3439-5-9	I 1712
-50623907	5252	50616021	10462N	3439-5-9	E1395	50607043	10462N	3439-5-9	I 1712
-50623912	5252	50616015	10462N	3439-5-9	E1395	50604020	10462N	3439-5-9	I 1712
-50623921	5252	50615034	10462N	3439-5-9	E1395	50604003	10462N	3439-5-9	I 1712
-50623922	5252	50615020	10462N	3439-5-9	E1395	50607047	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
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Date: June 29, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506241
Manifest No.: 50629001

ROLL(S) TESTED per MLN 506241

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
	<u>Inches</u>		
-50624901	0.411	27.9	78.0
50624905	0.414	27.9	78.3
-50624912	0.421	28.2	78.0
-50624915	0.423	27.9	78.5
Average	0.417	28.0	78.2
Max. Value	0.423	28.2	78.5
Min. Value	0.411	27.9	78.0
Std. Dev.	0.006	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215

Single Width Source Rolls of Enkanet 4015

Roll Number Colback		Amoco								
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	Amoco
-50624901	5252	50417042	10462N	3145-5-9	E1338	50604012	10462N	3439-5-9	I1712	
-50624902	5252	50417041	10462N	3145-5-9	E1338	50604008	10462N	3439-5-9	I1712	
-50624903	5252	50616016	10462N	3439-5-9	E1395	50604017	10462N	3439-5-9	I1712	
-50624904	5252	50616009	10462N	3439-5-9	M1096	50604009	10462N	3439-5-9	I1712	
-50624906	5252	50418021	10462N	3145-5-9	E1395	50604005	10462N	3439-5-9	I1712	
-50624907	5252	50509036	10462N	4714-4-9	E1338	50604002	10462N	3439-5-9	I1712	
-50624908	5252	50503007	10462N	4714-4-9	E1338	50604011	10462N	3439-5-9	I1712	
-50624909	5252	50418022	10462N	3145-5-9	E1395	50609039	10462N	3439-5-9	I1712	
-50624910	5252	50417043	10462N	3145-5-9	E1338	50604013	10462N	3439-5-9	I1712	
-50624911	5252	50503006	10462N	4714-4-9	E1338	50604016	10462N	3439-5-9	I1712	
-50624912	5252	50616017	10462N	3439-5-9	E1395	50604018	10462N	3439-5-9	I1712	
-50624913	5252	50616008	10462N	3439-5-9	E1395	50608048	10462N	3439-5-9	I1712	
-50624914	5252	50509035	10462N	4714-4-9	E1338	50604019	10462N	3439-5-9	I1712	
-50624915	5252	50509032	10462N	4714-4-9	E1338	50604001	10462N	3439-5-9	I1712	
-50624916	5252	50515002	10462N	3439-5-9	E1395	50607004	10462N	3439-5-9	I1712	
-50624917	5254	50509033	10462N	4714-4-9	E1338	50608005	10462N	3439-5-9	I1712	

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Date: June 29, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506251
Manifest No.: 50629001

ROLL(S) TESTED per MLN 506251

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50625903	0.412	28.0	78.0
50625906	0.419	28.6	77.8
50625909	0.416	27.4	77.8

Average	0.416	28.0	77.9
Max. Value	0.419	28.6	78.0
Min. Value	0.412	27.4	77.8
Std. Dev.	0.004	0.6	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215

Single Width Source Rolls of Enkanet 4015

Roll Number Colback		Amoco				Amoco			
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
- 50625901	5254	50615024	10462N	3439-5-9	E1395	50610007	10462N	3439-5-9	I 1712
- 50625902	5254	50509037	10462N	4714-4-9	E1338	50605021	10462N	3439-5-9	I 1712
- 50625903	5254	50515003	10462N	3439-5-9	E1395	50609011	10462N	3439-5-9	I 1712
- 50625904	5254	50618004	10462N	3439-5-9	M1096	50606003	10462N	3439-5-9	I 1712
- 50625905	5254	50509004	10462N	4714-4-9	E1338	50606020	10462N	3439-5-9	I 1712

R.D. Bowen
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Date: June 29, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506271
Manifest No.: 50629001

ROLL(S) TESTED per MLN 506271

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
~50627902	0.431	27.0	78.0
50627903	0.409	27.6	77.5

Average	0.420	27.3	77.8
Max. Value	0.431	27.6	78.0
Min. Value	0.409	27.0	77.5
Std. Dev.	0.016	0.4	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
- 50627902	5254	50614019	10462N	3439-5-9	E1395	50607054	10462N	3439-5-9	1 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

Date: June 29, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506281
Manifest No.: 50629001

ROLL(S) TESTED per MLN 506281

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50628901	0.414	27.1	78.5
Average	0.414	27.1	78.5
Max. Value	0.414	27.1	78.5
Min. Value	0.414	27.1	78.5
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50628901	5254	50615045	10462N	3439-5-9	E1395	50609040	10462N	3439-5-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

June 30, 1994

Akzo Fibers, Inc.
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-406021

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # M1096, dated June 29, 1994, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll</u>	
		<u>Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	300	310
Puncture, lbs.	ASTM-D-4833 (Modi)	90	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, %* (Strength Retained)	ASTM-D-4355	70	85
Asphalt Retention (Gal/Yd ²)	TX DOT 3099	.35	

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

William L. Music

William L. Music
Quality Control Supervisor
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 28, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Post-It™ brand fax transmittal memo 7671 # of pages 19

To <i>Richard Bowen</i>	From
Co.	Co.
Dept.	Phone #
Fax #	Fax #

Re: Purchase Order # 85-406021
Shipping # M1096, dated June 29, 1994

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1598640	4597	5.15	61	125	74	347	112	61	100+
1598641	4597	5.15	61	125	74	347	112	61	100+
1598642	4597	5.15	61	125	74	347	112	61	100+
1598643	4597	5.10	59	131	73	319	93	60	100+
1598644	4597	5.10	59	131	73	319	93	60	100+
1598645	4597	5.10	59	131	73	319	93	60	100+
1598651	4597	5.10	59	131	73	319	93	60	100+
1598652	4597	5.10	59	131	73	319	93	60	100+
1598653	4597	5.10	59	131	73	319	93	60	100+
1598872	4597	4.99	55	140	72	336	121	55	100+
1598975	4597	4.80	55	134	70	292	121	51	100+
1598977	4597	4.80	55	134	70	292	121	51	100+
1598978	4597	4.80	55	134	70	292	121	51	100+
1598979	4597	5.21	59	141	76	351	121	57	100+
1598980	4597	5.21	59	141	76	351	121	57	100+
1598981	4597	5.21	59	141	76	351	121	57	100+
1598988	4597	4.77	56	129	76	291	94	61	100+
1598989	4597	4.77	56	129	76	291	94	61	100+
1598990	4597	4.77	56	129	76	291	94	61	100+
1598997	4597	4.80	55	134	70	292	121	51	100+
1598998	4597	4.80	55	134	70	292	121	51	100+
1598999	4597	4.80	55	134	70	292	121	51	100+
1599008	4597	4.61	58	133	81	328	101	62	100+
1599009	4597	4.61	58	133	81	328	101	62	100+
1599010	4597	4.61	58	133	81	328	101	62	100+
1599020	4597	4.61	58	133	81	328	101	62	100+
1599021	4597	4.61	58	133	81	328	101	62	100+
1599022	4597	4.61	58	133	81	328	101	62	100+
1599053	4597	4.82	57	131	73	306	94	52	100+

35 160 85 180 45 50 60
40 120 50 300 60 45 70

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BY AMOCO FABRICS COMPANY

7/13/95



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

April 28, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-406021
Shipping # M1096, dated June 29, 1994

Piece		Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
1599054	4597	4.82	57	131	73	306	94	52	100+	
1599055	4597	4.82	57	131	73	306	94	52	100+	
1599057	4597	4.82	57	131	73	306	94	52	100+	
1599058	4597	4.82	57	131	73	306	94	52	100+	
1599059	4597	4.82	57	131	73	306	94	52	100+	
1599060	4597	5.15	61	125	74	347	112	61	100+	
1599061	4597	5.15	61	125	74	347	112	61	100+	
1599062	4597	5.15	61	125	74	347	112	61	100+	
1599065	4597	4.71	56	132	78	329	113	56	100+	
1599066	4597	4.71	56	132	78	329	113	56	100+	
1599067	4597	4.71	56	132	78	329	113	56	100+	
1599083	4597	4.77	56	129	76	291	94	61	100+	
1599084	4597	4.77	56	129	76	291	94	61	100+	
1599085	4597	4.77	56	129	76	291	94	61	100+	
1599086	4597	5.27	61	147	76	294	117	73	100+	
1599087	4597	5.27	61	147	76	294	117	73	100+	
1599088	4597	5.27	61	147	76	294	117	73	100+	
1648515	4597	7.89	76	203	71	490	171	135	100+	
1648516	4597	7.89	76	203	71	490	171	135	100+	
1648517	4597	7.89	76	203	71	490	171	135	100+	
1648518	4597	7.89	76	203	71	490	171	135	100+	
1648519	4597	7.89	76	203	71	490	171	135	100+	
1648520	4597	7.89	76	203	71	490	171	135	100+	
1648521	4597	7.89	76	203	71	490	171	135	100+	
1648522	4597	7.89	76	203	71	490	171	135	100+	
1648541	4597	6.33	52	158	74	361	144	84	100+	
1648542	4597	6.33	52	158	74	361	144	84	100+	
1648543	4597	6.33	52	158	74	361	144	84	100+	
1648544	4597	6.33	52	158	74	361	144	84	100+	
1648549	4597	7.89	76	203	71	490	171	135	100+	

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

April 28, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-406021
Shipping # M1096, dated June 29, 1994

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
1648550	4597	7.89	76	203	71	490	171	135	100+	
1648551	4597	7.89	76	203	71	490	171	135	100+	
1648552	4597	7.89	76	203	71	490	171	135	100+	
1648585	4597	6.33	52	158	74	361	144	84	100+	
1648586	4597	6.33	52	158	74	361	144	84	100+	
1648587	4597	6.33	52	158	74	361	144	84	100+	
1648588	4597	6.33	52	158	74	361	144	84	100+	
1648589	4597	6.33	52	158	74	361	144	84	100+	
1648590	4597	6.33	52	158	74	361	144	84	100+	
1648591	4597	6.33	52	158	74	361	144	84	100+	
1648592	4597	6.33	52	158	74	361	144	84	100+	
1648605	4597	6.01	53	135	68	344	127	89	100+	
1648606	4597	6.01	53	135	68	344	127	89	100+	
1648607	4597	6.01	53	135	68	344	127	89	100+	
1648608	4597	6.01	53	135	68	344	127	89	100+	
1648633	4597	6.01	53	135	68	344	127	89	100+	
1648634	4597	6.01	53	135	68	344	127	89	100+	
1648635	4597	6.01	53	135	68	344	127	89	100+	
1648636	4597	6.01	53	135	68	344	127	89	100+	
1648654	4597	6.01	53	135	68	344	127	89	100+	
1648655	4597	6.01	53	135	68	344	127	89	100+	
1648656	4597	6.01	53	135	68	344	127	89	100+	
1648657	4597	6.01	53	135	68	344	127	89	100+	
1648816	4597	5.85	56	144	69	424	139	89	100+	
1648817	4597	5.85	56	144	69	424	139	89	100+	
1648818	4597	5.85	56	144	69	424	139	89	100+	
1648819	4597	5.85	56	144	69	424	139	89	100+	
1648821	4597	5.85	56	144	69	424	139	89	100+	
1648822	4597	5.85	56	144	69	424	139	89	100+	
1648823	4597	5.85	56	144	69	424	139	89	100+	

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Amoco Fabrics and Fibers Company

Quality Control Department
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Hazlehurst, Georgia 31539-0451

April 28, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-406021
Shipping # M1096, dated June 29, 1994

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.	2 Oz.							
1648824	4597	5.85	56	144	69	424	139	89	100+	
1648828	4597	5.85	56	144	69	424	139	89	100+	
1648829	4597	5.85	56	144	69	424	139	89	100+	
1648830	4597	5.85	56	144	69	424	139	89	100+	
1648831	4597	5.85	56	144	69	424	139	89	100+	
1648838	4597	5.94	62	159	65	336	144	100	100+	
1648839	4597	5.94	62	159	65	336	144	100	100+	
1648840	4597	5.94	62	159	65	336	144	100	100+	
1648841	4597	5.94	62	159	65	336	144	100	100+	
1648853	4597	5.94	62	159	65	336	144	100	100+	
1648854	4597	5.94	62	159	65	336	144	100	100+	
1648855	4597	5.94	62	159	65	336	144	100	100+	
1648856	4597	5.94	62	159	65	336	144	100	100+	
1649019	4597	6.20	63	145	66	333	133	117	100+	
1649020	4597	6.20	63	145	66	333	133	117	100+	
1649021	4597	6.20	63	145	66	333	133	117	100+	
1649022	4597	6.20	63	145	66	333	133	117	100+	
1649069	4597	4.66	50	126	75	268	97	87	100+	
1649070	4597	4.66	50	126	75	268	97	87	100+	
1649071	4597	4.66	50	126	75	268	97	87	100+	
1649072	4597	4.66	50	126	75	268	97	87	100+	
1649086	4597	4.66	50	126	75	268	97	87	100+	
1649087	4597	4.66	50	126	75	268	97	87	100+	
1649088	4597	4.66	50	126	75	268	97	87	100+	
1649089	4597	4.66	50	126	75	268	97	87	100+	
1649131	4597	4.66	50	126	75	268	97	87	100+	
1649132	4597	4.66	50	126	75	268	97	87	100+	
1649133	4597	4.66	50	126	75	268	97	87	100+	
1649134	4597	4.66	50	126	75	268	97	87	100+	
1649141	4597	5.12	60	120	73	312	113	86	100+	

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY

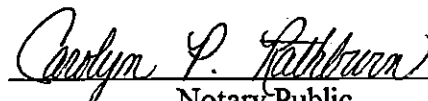
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7/13/95

NORTH CAROLINA

BUNCOMBE COUNTY

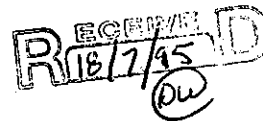
I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 5TH day of JULY, 1995.



Notary Public

My Commission Expires May 7, 2000.





July 5, 1995

Geosynthetics

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Laboratory Conformance Results for Colback Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Attached please find the laboratory conformance results conducted on Colback ND120 by GeoSyntec Consultants, Boca Raton, Florida.

This lot (#5254) meets the revised Minimum Roll Average Values project specifications for the nonwoven, heat-bonded geotextile recommended by Mr. Cargill in his letter dated May 4, 1995 addressed to Mr. Gladysz of Cashin Associates, P.C.

Lot #5254 has been used on finished rolls of Enkanet 4215-102-0000 already shipped to the site and also will be used for future production of Enkanet 4215. Please note that all Letters of Certification from Akzo Nobel include the Colback lot # that was used for each finished roll of Enkanet 4215-102-0000 shipped to the project site.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-183.nyc

Akzo Nobel Geosynthetics Company
Suite 518, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



GEOSYNTec CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: *Uzo Nobel Geosynthetics Co*
CONTACT: *Mr. Rick Bowen*
GEOSYNTec JOB NO.: *FLQ5881*

CLIENT ID: *Colback ND120 / LOT # 5254*
DATE TESTED: *07/01/95*

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
112.2	116.1	112.2	117.9	111.7	111.3	115.9	114.2	114.6	116.8
3.3	3.4	3.3	3.5	3.3	3.3	3.4	3.4	3.4	3.4
0.49	0.47	0.57	0.52	0.48	0.51	0.50	0.51	0.50	0.53
19.3	18.5	22.4	20.5	18.9	20.1	19.7	20.1	19.7	20.9
149.5	150.7	154.2	162.7	139.5	156.2	167.2	181.7	179.5	164.0
157.7	168.0	172.7	169.5	171.5	168.2	164.2	177.0	165.7	170.0
79.7	61.7	71.0	76.7	70.3	75.0	86.7	91.7	87.0	83.7
80.3	80.7	82.0	84.7	82.3	82.3	82.7	91.7	84.7	94.7
60.0	52.0	65.5	63.5	66.8	59.0	68.0	63.3	48.8	61.8
51.0	67.8	62.0	85.0	56.0	65.5	57.5	54.0	52.3	54.8
120	110	160	150	120	160	135	125	120	125
44.0	53.0	40.8	40.3	47.0	51.0	40.5	42.5	48.8	54.3
0.226	0.197	0.230	0.275	0.199					
60	70	60	50	70					
2.944	2.819	2.903	2.900						
216.7	207.5	213.8	213.5						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ²	114.3	2.32		
	oz/yd ²	3.4	0.07		
THICKNESS (ASTM D1777)	mm	0.51	0.028		
	mil	20.0	1.11		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		160.5	13.29		
XD		168.5	5.22		
GRAB ELONGATION (ASTM D4632)	%				
RD		78.4	9.21		
XD		84.6	4.80		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		60.9	6.23		
XD		60.6	10.23		
MULLEN BURST STRENGTH (ASTM D3786)	psi	133	18.0		
PUNCTURE STRENGTH (ASTM D4533)	lb	46.2	5.35		
APPARENT OPENING SIZE (ASTM D4751)	mm	0.225	0.0316		
	sieve no.*	60	N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	2.892	0.0523		
FLOW RATE (ASTM D4491)	gal/min ft ²	212.9	3.86		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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Geosynthetics

MEMORANDUM

Date: 7 July 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50705010 dated 7/05/95. These letters cover rolls shipped from MLN 506271, 506301, 507011, and 507021. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-028.fax



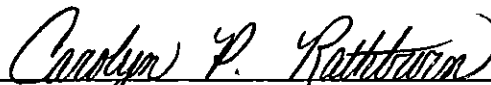
Akzo Nobel Geosynthetics Company
Suite 518, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Facsimile (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 7th day of July, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: July 7, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506271
Manifest No.: 50705010

ROLL(S) TESTED per MLN 506271

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50627902✓	0.431	27.0	78.0
50627903✓	0.409	27.6	77.5

Average	0.420	27.3	77.8
Max. Value	0.431	27.6	78.0
Min. Value	0.409	27.0	77.5
Std. Dev.	0.016	0.4	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50627903	5254	50616031	10462N	3439-5-9	E1395	50415049	10062N	554843	E1375

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-184nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: July 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506301
Manifest No.: 50705010

ROLL(S) TESTED per MLN 506301

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50630905 ✓	0.410	27.6	78.0
50630906 ✓	0.416	27.8	78.0
50630907 ✓	0.409	27.1	79.0
50630908 ✓	0.411	26.6	78.3
Average	0.412	27.3	78.3
Max. Value	0.416	27.8	79.0
Min. Value	0.409	26.6	78.0
Std. Dev.	0.003	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50630902	5252	50630029	10462N	4714-4-9	K1490	50629003	10462N	3139-5-9	I 1712
50630903	5252	50630027	10462N	4714-4-9	K1490	50629005	10462N	3139-5-9	I 1712
50630904	5252	50614022	10462N	3439-5-9	E1395	50629009	10462N	4714-4-9	I 1712
50630905	5252	50614026	10462N	3439-5-9	E1395	50629010	10462N	4714-4-9	I 1712
50630906	5252	50614027	10462N	3439-5-9	E1395	50629007	10462N	3139-5-9	I 1712
50630907	5252	50614028	10462N	3439-5-9	E1395	50629006	10462N	3139-5-9	I 1712
50630908	5252	50614029	10462N	3439-5-9	E1395	50629012	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-185nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 1249
Asheville, NC 28802
Telephone: (704) 655-0000
Telefax: (704) 655-0000



Geosynthetics

Date: July 7, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507011
Manifest No.: 50705010

ROLL(S) TESTED per MLN 507011

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50701903 ✓	0.407	26.0	78.3
50701906 ✓	0.417	27.2	78.3
50701910 ✓	0.431	26.4	78.5
50701913 ✓	0.420	26.9	78.0
50701917 ✓	0.416	27.2	77.8
50701921 ✓	0.421	26.6	78.0
Average	0.419	26.7	78.2
Max. Value	0.431	27.2	78.5
Min. Value	0.407	26.0	77.8
Std. Dev.	0.008	0.5	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Amoco Ship #</u>
50701901	5252	50614031	10462N	3439-5-9	E1395	50629013	10462N	4714-4-9	K1490
50701902	5252	50630032	10462N	4714-4-9	K1490	50629015	10462N	4714-4-9	K1490
50701903	5252	50630033	10462N	4714-4-9	K1490	50629016	10462N	4714-4-9	K1490
50701904	5252	50630036	10462N	4714-4-9	K1490	50629025	10462N	4714-4-9	K1490
50701905	5252	50630037	10462N	4714-4-9	K1490	50629018	10462N	4714-4-9	K1490
50701906	5252	50630023	10462N	4714-4-9	K1490	50629019	10462N	4714-4-9	K1490
50701907	5252	50630024	10462N	4714-4-9	K1490	50629020	10462N	4714-4-9	K1490
50701908	5252	50630025	10462N	4714-4-9	K1490	50629021	10462N	4714-4-9	K1490
50701909	5252	50701002	10462N	4714-4-9	K1490	50629026	10462N	4714-4-9	K1490
50701910	5252	50630031	10462N	4714-4-9	K1490	50629027	10462N	4714-4-9	K1490
50701911	5252	50630030	10462N	4714-4-9	K1490	50629028	10462N	4714-4-9	K1490
50701912	5252	50701003	10462N	4714-4-9	K1490	50629029	10462N	4714-4-9	K1490
50701913	5252	50630040	10462N	4714-4-9	K1490	50630001	10462N	4714-4-9	K1490
50701914	5254	50701001	10462N	4714-4-9	K1490	50630002	10462N	4714-4-9	K1490

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665 5009



Date: July 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507011
Manifest No.: 50705010

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50701915 ✓	5254	50630034	10462N	4714-4-9	K1490	50630004	10462N	4714-4-9	K1490
50701916 ✓	5254	50614032	10462N	3439-5-9	E1395	50629024	10462N	4714-4-9	K1490
50701917	5254	50614034	10462N	3439-5-9	E1395	50630005	10462N	4714-4-9	K1490
50701918	5254	50418003	10462N	3145-5-9	E1338	50630006	10462N	4714-4-9	K1490
50701919	5254	50418004	10462N	3145-5-9	E1338	50630012	10462N	4714-4-9	K1490
50701920	5254	50614025	10462N	3439-5-9	E1395	50630011	10462N	4714-4-9	K1490
50701921	5254	50614023	10462N	3439-5-9	E1395	50630009	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-186nyc



Date: July 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507021
Manifest No.: 50705010

ROLL(S) TESTED per MLN 507021

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50702903 ✓	0.420	26.6	78.0
50702906 ✓	0.418	27.4	78.3
50702910 ✓	0.419	26.8	78.3
50702913	0.425	26.9	77.5
50702916	0.424	27.2	77.5
Average	0.421	27.0	77.9
Max. Value	0.425	27.4	78.3
Min. Value	0.418	26.6	77.5
Std. Dev.	0.003	0.3	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50702901	5254	50417045	10462N	3145-5-9	E1338	50630010	10462N	4714-4-9	K1490
50702902	5254	50614051	10462N	3439-5-9	E1395	50506041	10462N	4714-4-9	E1375
50702903	5254	50417044	10462N	3145-5-9	E1338	50630007	10462N	4714-4-9	K1490
50702904	5254	50701004	10462N	4714-4-9	K1490	50630008	10462N	4714-4-9	K1490
50702906	5254	50701005	10462N	4714-4-9	K1490	50630014	10462N	4714-4-9	K1490
50702907	5254	50630039	10462N	4714-4-9	K1490	50630013	10462N	4714-4-9	K1490
50702908	5254	50418007	10462N	3145-5-9	E1338	50630015	10462N	4714-4-9	K1490
50702910	5254	50701009	10462N	4714-4-9	K1490	50630017	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-188nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665 5000
Telefax (704) 665 5009



Geosynthetics

MEMORANDUM

Date: 11 July 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

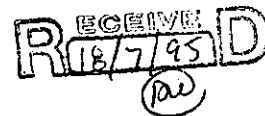
Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50712003 dated 7/12/95. These letters cover rolls shipped from MLN 507021, 507031, 507071, 507091, 507101 and 507111. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen



Brix-029.fax

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5040
Fax (704) 665-5043

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 12th day of July, 1995.



Notary Public

My Commission Expires May 7, 2000.



Date: July 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507021
Manifest No.: 50712003

ROLL(S) TESTED per MLN 507021

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
✓ 50702903	0.420	26.6	78.0
✓ 50702906	0.418	27.4	78.3
✓ 50702910	0.419	26.8	78.3
✓ 50702913	0.425	26.9	77.5
50702916	0.424	27.2	77.5
Average	0.421	27.0	77.9
Max. Value	0.425	27.4	78.3
Min. Value	0.418	26.6	77.5
Std. Dev.	0.003	0.3	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50702905	5254	50418009	10462N	3145-5-9	E1338	50608043	10462N	3439-5-9	K1490
50702911	5254	50418008	10462N	3145-5-9	E1338	50630018	10462N	4714-4-9	K1490
50702912	5254	50701006	10462N	4714-4-9	K1490	50629002	10462N	3139-5-9	I1712
50702913	5254	50630038	10462N	4714-4-9	K1490	50629001	10462N	3139-5-9	I1712
50702914	5254	50701007	10462N	4714-4-9	K1490	50629030	10462N	4714-4-9	K1490
50702915	5254	50614035	10462N	3439-5-9	E1395	50630019	10462N	4714-4-9	K1490
50702916	5254	50614036	10462N	3439-5-9	E1395	50630022	10462N	4714-4-9	K1490
50702917	5254	50418019	10462N	3145-5-9	E1395	50702026	10462N	4714-4-9	K1490

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Date: July 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507031
Manifest No.: 50712003

ROLL(S) TESTED per MLN 507031

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
✓50703902	0.422	27.9	78.5
✓50703905	0.426	27.8	78.5
✓50703908	0.434	28.6	78.0
✓50703909	0.432	28.4	77.8
Average	0.429	28.2	78.2
Max. Value	0.434	28.6	78.5
Min. Value	0.422	27.8	77.8
Std. Dev.	0.006	0.4	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width			Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50703902	5254	50701012	10462N	4714-4-9	K1490	50630021	10462N	4714-4-9	K1490
50703903	5254	50610036	10462N	3439-5-9	E1395	50702030	10462N	4714-4-9	K1490
50703905	5254	50509052	10462N	4714-4-9	H0369	50702025	10462N	4714-4-9	K1490
50703906	5254	50701016	10462N	4714-4-9	K1490	50702035	10462N	4714-4-9	K1490
50703907	5254	50701011	10462N	4714-4-9	K1490	50702028	10462N	4714-4-9	K1490
50703908	5254	50701013	10462N	4714-4-9	K1490	50702029	10462N	4714-4-9	K1490
50703909	5254	50513032	10462N	3439-5-9	E1338	50702032	10462N	4714-4-9	K1490

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Geosynthetics

Date: July 12, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507071
Manifest No.: 50712003

ROLL(S) TESTED per MLN 507071

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick.	Mass/ Unit Area	Core Width
	Inches	Total (oz/yd²)	Inches
✓ 50707901	0.404	27.8	79.0
/ 50707902	0.410	28.1	78.0
Average	0.407	28.0	78.5
Max. Value	0.410	28.1	79.0
Min. Value	0.404	27.8	78.0
Std. Dev.	0.004	0.2	0.7

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50707901	5254	50702001	10462N	4714-4-9	K1490	50702038	10462N	4714-4-9	K1490
50707902	5254	50701015	10462N	4714-4-9	K1490	50702039	10462N	4714-4-9	K1490

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Date: July 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507091
Manifest No.: 50712003

ROLL(S) TESTED per MLN 507091

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50709908	0.431	26.9	78.0
50709912	0.424	28.3	77.8
✓ 50709916	0.413	27.7	78.3
✓ 50709921	0.417	27.2	78.0
Average	0.421	27.5	78.0
Max. Value	0.431	28.3	78.3
Min. Value	0.413	26.9	77.8
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50709911	5254	50701039	10462N	4714-4-9	K1490	50703006	10462N	4714-4-9	I 1712
50709916	5254	50701046	10462N	4714-4-9	K1490	50703009	10462N	4714-4-9	K1490
50709917	5254	50701042	10462N	4714-4-9	K1490	50703008	10462N	4714-4-9	K1490
50709920	5254	50704054	10462N	4714-4-9	K1490	50703301	10462N	4714-4-9	K1490
50709921	5254	50704055	10462N	4714-4-9	K1490	50702060	10462N	4714-4-9	K1490

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Date: July 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507101
Manifest No.: 50712003

ROLL(S) TESTED per MLN 507101

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
✓50710902	0.408	27.4	77.8
✓50710906	0.422	27.8	78.0
✓50710909	0.419	26.4	77.5
✓50710915	0.427	27.3	77.5
Average	0.419	27.2	77.7
Max. Value	0.427	27.8	78.0
Min. Value	0.408	26.4	77.5
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50710901	5254	50701049	10462N	4714-4-9	K1490	50702061	10462N	4714-4-9	K1490
50710902	5254	50701048	10462N	4714-4-9	K1490	50703010	10462N	4714-4-9	K1490
50710905	5254	50701053	10462N	4714-4-9	K1490	50703014	10462N	4714-4-9	K1490
50710906	5254	50701047	10462N	4714-4-9	K1490	50703016	10462N	4714-4-9	K1490
50710907	5254	50704056	10462N	4714-4-9	K1490	50703015	10462N	4714-4-9	K1490
50710909	5254	50704060	10462N	4714-4-9	K1490	50703012	10462N	4714-4-9	K1490
50710912	5254	50701055	10462N	4714-4-9	K1490	50629022	10462N	4714-4-9	K1490
50710914	5254	50704058	10462N	4714-4-9	K1490	50703025	10462N	4714-4-9	K1490
50710915	5254	50704062	10462N	4714-4-9	K1490	50703024	10462N	4714-4-9	K1490

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Date: July 12, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507111
Manifest No.: 50712003

ROLL(S) TESTED per MLN 507111

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50711903	0.412	27.5	77.8
50711906	0.406	27.8	77.5
50711910	0.411	28.2	78.0
50711913	0.418	28.1	78.0
Average	0.412	27.9	77.8
Max. Value	0.418	28.2	78.0
Min. Value	0.406	27.5	77.5
Std. Dev.	0.005	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco		Amoco		Amoco		Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50711903	5254	50701064	10462N	4714-4-9	K1490	50703040	10462N	4714-4-9	L0007
50711904	5254	50701065	10462N	4714-4-9	K1490	50703041	10462N	4714-4-9	L0007
50711905	5254	50705001	10462N	4714-4-9	K1490	50703042	10462N	4714-4-9	L0007
50711911	5254	50702020	10462N	4714-4-9	K1490	50703039	10462N	4714-4-9	L0007
50711913	5254	50702023	10462N	4714-4-9	K1490	50703033	10462N	4714-4-9	L0007
50711914	5254	50702019	10462N	4714-4-9	K1490	50703049	10462N	4714-4-9	L0007

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Geosynthetics

MEMORANDUM

Date: 18 July 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50718001 dated 7/18/95. These letters cover rolls shipped from MLN 507091, 507101, 507111, 507121, 507131 and 507141. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-031.fax

*Received on:
July 21, 1995
Shw*

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NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 18th day of June, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: July 18, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507091
Manifest No.: 50718001

ROLL(S) TESTED per MLN 507091

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50709908	0.431	26.9	78.0
50709912	0.424	28.3	77.8
50709916	0.413	27.7	78.3
50709921	0.417	27.2	78.0
Average	0.421	27.5	78.0
Max. Value	0.431	28.3	78.3
Min. Value	0.413	26.9	77.8
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50709910	5254	50701038	10462N	4714-4-9	K1490	50703004	10462N	4714-4-9	I 1712

R.D. Bowen
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Geosynthetics

Date: July 18, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507101
Manifest No.: 50718001

ROLL(S) TESTED per MLN 507101

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50710902	0.408	27.4	77.8
50710906	0.422	27.8	78.0
50710909	0.419	26.4	77.5
50710915	0.427	27.3	77.5
Average	0.419	27.2	77.7
Max. Value	0.427	27.8	78.0
Min. Value	0.408	26.4	77.5
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215

Single Width Source Rolls of Enkanet 4015

Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50710904✓	5254	50701050	10462N	4714-4-9	K1490	50703017	10462N	4714-4-9	K1490
50710908✓	5254	50701054	10462N	4714-4-9	K1490	50703013	10462N	4714-4-9	K1490

R.D. Bowen
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Date: July 18, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507111
Manifest No.: 50718001

ROLL(S) TESTED per MLN 507111

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50711903	0.412	27.5	77.8
50711906✓	0.406	27.8	77.5
50711910✓	0.411	28.2	78.0
50711913	0.418	28.1	78.0
Average	0.412	27.9	77.8
Max. Value	0.418	28.2	78.0
Min. Value	0.406	27.5	77.5
Std. Dev.	0.005	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50711906✓	5254	50705002	10462N	4714-4-9	K1490	50703035	10462N	4714-4-9	L0007
50711907✓	5254	50702016	10462N	4714-4-9	K1490	50703045	10462N	4714-4-9	L0007
50711908✓	5254	50602015	10462N	4714-4-9	K1490	50703047	10462N	4714-4-9	L0007
50711909✓	5254	50602010	10462N	4714-4-9	K1490	50703038	10462N	4714-4-9	L0007
50711910✓	5254	50702005	10462N	4714-4-9	K1490	50703044	10462N	4714-4-9	L0007
50711912✓	5254	50702022	10462N	4714-4-9	K1490	50703048	10462N	4714-4-9	L0007

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Geosynthetics

Date: July 18, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507121
Manifest No.: 50718001

ROLL(S) TESTED per MLN 507121

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50712901 ✓	0.422	28.7	77.5
50712904 ✓	0.417	27.4	77.8
50712912 ✓	0.419	29.0	77.8
50712919 ✓	0.410	27.5	78.3
Average	0.417	28.2	77.8
Max. Value	0.422	29.0	78.3
Min. Value	0.410	27.4	77.5
Std. Dev.	0.005	0.8	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50712901 ✓	5254	50701063	10462N	4714-4-9	K1490	50703032	10462N	4714-4-9	L0007
50712902 ✓	5254	50702014	10462N	4714-4-9	K1490	50703051	10462N	4714-4-9	L0007
50712903 ✓	5254	50702013	10462N	4714-4-9	K1490	50703052	10462N	4714-4-9	L0007
50712904 ✓	5254	50705009	10462N	4714-4-9	K1490	50703043	10462N	4714-4-9	L0007
50712907 ✓	5254	50705007	10462N	4714-4-9	K1490	50703755	10462N	4714-4-9	L0007
50712908 ✓	5254	50705006	10462N	4714-4-9	K1490	50703059	10462N	4714-4-9	L0007
50712909 ✓	5254	50702018	10462N	4714-4-9	K1490	50703060	10462N	4714-4-9	L0007
50712910 ✓	5254	50616010	10462N	3439-5-9	M1096	50703056	10462N	4714-4-9	L0007
50712911 ✓	5254	50418023	10462N	3145-5-9	E1395	50703050	10462N	4714-4-9	L0007
50712912 ✓	5254	50702008	10462N	4714-4-9	K1490	50703061	10462N	4714-4-9	L0007
50712913 ✓	5254	50702017	10462N	4714-4-9	K1490	50703064	10462N	4714-4-9	L0007
50712914 ✓	5254	50702012	10462N	4714-4-9	K1490	50703058	10462N	4714-4-9	L0007
50712915 ✓	5254	50702007	10462N	4714-4-9	K1490	50703057	10462N	4714-4-9	L0007
50712916 ✓	5254	50704013	10462N	4714-4-9	K1490	50704006	10462N	4714-4-9	L0007
50712917 ✓	5254	50705005	10462N	4714-4-9	K1490	50703062	10462N	4714-4-9	L0007

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Date: July 18, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507121
Manifest No.: 50718001

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50712918✓	5254	50704020	10462N	4714-4-9	K1490	50704010	10462N	4714-4-9	L0007
50712919✓	5254	50704021	10462N	4714-4-9	K1490	50704008	10462N	4714-4-9	L0007
50712920✓	5254	50705013	10462N	4714-4-9	K1490	50704012	10462N	4714-4-9	L0007

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Date: July 18, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507131
Manifest No.: 50718001

ROLL(S) TESTED per MLN 507131

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50713903 ✓	0.418	27.7	78.0
50713912 ✓	0.416	27.6	77.5
50713914	0.407	26.9	77.5
50713915 ✓	0.409	27.8	77.8
Average	0.413	27.5	77.7
Max. Value	0.418	27.8	78.0
Min. Value	0.407	26.9	77.5
Std. Dev.	0.005	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50713901 ✓	5254	50702009	10462N	4714-4-9	K1490	50704009	10462N	4714-4-9	L0007
50713902	5254	50701060	10462N	4714-4-9	K1490	50705037	10462N	4714-4-9	L0007
50713903 ✓	5254	50701062	10462N	4714-4-9	K1490	50705038	10462N	4714-4-9	L0007
50713906 ✓	5254	50705010	10462N	4714-4-9	K1490	50705036	10462N	4714-4-9	L0007
50713907 ✓	5254	50705011	10462N	4714-4-9	K1490	50605041	10462N	4714-4-9	L0007
50713912 ✓	5254	50617012	10462N	3439-5-9	E1395	50704003	10462N	4714-4-9	L0007
50713913 ✓	5254	50705018	10462N	4714-4-9	K1490	50705045	10462N	4714-4-9	L0007
50713915 ✓	5254	50705016	10462N	4714-4-9	K1490	50705043	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-206nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: July 18, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507141
Manifest No.: 50718001

ROLL(S) TESTED per MLN 507141

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50714902 ✓	0.404	27.5	77.5
50714903	0.405	26.3	77.5
50714906	0.399	27.5	77.5
50714909	0.399	28.7	78.0
Average	0.402	27.5	77.6
Max. Value	0.405	28.7	78.0
Min. Value	0.399	26.3	77.5
Std. Dev.	0.003	1.0	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50714901 ✓	5254	50704024	10462N	4714-4-9	K1490	50705044	10462N	4714-4-9	L0007
50714902 ✓	5254	50705017	10462N	4714-4-9	K1490	50705049	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-205nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28812
Telephone 704 655-5050
Telefax 704 655-5009



Geosynthetics

July 19, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for Percentage by Weight of CARBON BLACK used in Production of Enkanet
4215-102-0000, East Northport Project

Gentlemen:

Listed below by date are the actual percentages by weight of Carbon Black used in the continuous production of core for Enkanet 4215-102-0000:

<u>Date</u>	<u>% by Weight of Carbon Black in Production Run</u>
April 10-17	1.0
April 18-19	0.5
May 3-15	0.8
June	Not Available Yet
July	Not Available Yet

note: June and July results will be forwarded to you as soon as they are available

I certify that percentages by weight of Carbon Black listed above are accurate to the best of my knowledge as given to me by our production department, and were calculated from actual production records of raw materials used.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R36.nyc

*Received on
Aug. 4, 1995
[Signature]*

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

July 19, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for HDPE CARBON BLACK resin chips used on Enkanet 4215-102-0000, East Northport Project

Gentlemen:

Attached are the specific lot Certifications from Reed Spectrum for Product Number C-BK-00010, a 50% Carbon Black Polyolefin resin chip, used in the production of Enkanet 4215-102-0000. Please find Certification letters for Lot Numbers M242080, P01307, P02813, and P00561.

I certify that percentage of Carbon Black in the aforementioned lot numbers is accurate to the best of my knowledge, and was obtained using established industry test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R35.nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 255-7050
Telex: 7060160000

REEDSPECTRUM

ReedSpectrum
Holden Industrial Park, Holden, MA 01520
Telephone (508) 829-2111
Telex (508) 829-2111

July 13, 1995

Akzo Ind. Systems
Ridgefield Bus. Center
PO Box 724 - Suite 318
Ashville NC 28806

Dear Sir/Madam:

The following item is certified to be the color number listed and is generally
formulation to the original sample of the same color number accepted.

Product Number	C-BK-00010
Description	50 % Carbon Black
Lot Number	M242080
Lot Size	4,000 lbs.
P.O. Number	85-307034

We trust this information meets with your requirements.

Sincerely,

REEDSPECTRUM



Colleen P. Ruel
Manufacturing Control Coordinator

REEDSPECTRUM

A Division of Sandoz Chemical Corporation

Reedspectrum

Holston Industrial Park, Suite 100, Holston, TN 37746

Telephone (508) 826-1111

Telefax (508) 826-1111

July 13, 1995

Akzo Industrial Systems
c/o BASF Corporation
95 Sand Hill Road
Enka, NC 28728

Dear Sir/Madam:

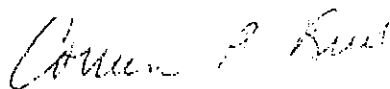
The following item is certified to be the color number listed and is genuine formulation to the original sample of the same color number accepted.

Product Number	C-BK-00010
Description	50 % Carbon Black
Lot Number	P01307
Lot Size	2,000 lbs
P.O. Number	55-506045

We trust this information meets with your requirements.

Sincerely,

REEDSPECTRUM



Colleen P. Ruel
Manufacturing Control Coordinator

REEDSPECTRUM

A Division of Stordox Chemicals Corporation

Reedspectrum
Molden Industrial Park - Haverhill, MA 01830
Telephone (508) 829-6111
Telefax (508) 829-2116

July 13, 1995

Akzo Industrial Systems
c/o BASF Corporation
95 Sand Hill Road
Enka, NC 28728

Dear Sir/Madam:

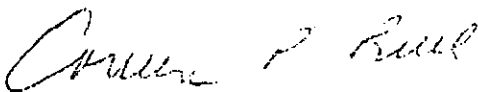
The following item is certified to be the color number listed and is generically equivalent in the formulation to the original sample of the same color number accepted.

Product Number	C-BK-00010
Description	50 % Carbon Black
Lot Number	P02813
Lot Size	200 lbs
P.O. Number	85-506029

We trust this information meets with your requirements.

Sincerely,

REEDSPECTRUM



Colleen P. Ruel
Manufacturing Control Coordinator



REEDSPECTRUM

a division of Sandoz Chemicals Corporation

Reedspectrum
Holladay Industrial Park, Holladay, NJ 07033
Telephone (908) 879-6330
Telefax (908) 879-2119

July 13, 1995

Akzo Industrial Systems
c/o BASF Corporation
95 Sand Hill Road
Enka, NC 28728

Dear Sir/Madam:

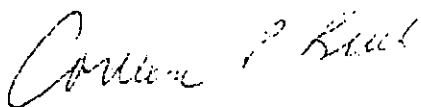
The following item is certified to be the color number listed and is generically equivalent in the formulation to the original sample of the same color number accepted.

Product Number	C-BK-00010
Description	50 % Carbon Black
Lot Number	P00561
Lot Size	1,000 lbs
P.O. Number	85-506029

We trust this information meets with your requirements.

Sincerely,

REEDSPECTRUM



Colleen P. Ruel
Manufacturing Control Coordinator





Geosynthetics

July 19, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Gentlemen:

Attached is a Certificate of Analysis from the resin manufacturer, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10462N, lot number 3590-5-9.

Lot number 3590-5-9 will be used in future production of Enkanet Type 4215-102-0000 rolls. When this specific Manufacturing Lot Number is used in the production of an Enkanet Type 4215-102-0000 roll, this will be identified on the Akzo Nobel Letter of Certification. All raw material lot numbers are noted on the Letter of Certification for finished rolls of Enkanet 4215-102-0000.

I certify that the test values for Melt Index and Density are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R34.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

**Dow U.S.A.**

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

MAY 03, 1995

From: DOW CHEMICAL - Louisiana Division

To: ELAINA

1-609-655-4764

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <2992675>

LOCATION	CRANBURY	NJ	08512
DOW NO.	7314281		
CUST ORDER NO	13374		
SHIPPED	050395		
VIA	ACFX	65685	
ROUTE	MP/ESTL/CR		
TYPE	HDPE	10462N	
GROSS	257,900		
TARE	67,500		
NET	190,400		
LOTS	95041535909		
PKG. LOT NO.	QP 3590-5-9		
MELT INDEX	10.80		
DENSITY	.9614		

MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA

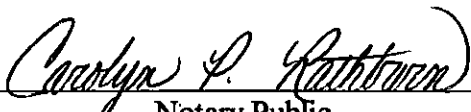
Post-it* Fax Note 7671		Date	# of pages ▶ 1
To	Rich Bowles	From	Tom
Co./Dept	AKZO Nobel	Co.	General Polymers
Phone #	85-504017	Phone #	80-848-0796
Fax #	204-665-5043	Fax #	

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 19th day of July, 1995.



Notary Public

My Commission Expires May 7, 2000.

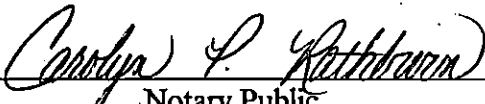
Received on

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 20th day of July, 1995.



Notary Public

My Commission Expires May 7, 2000.

*Reviewed and meets
requirements
[Signature]
Aug 4, 1995*



July 20, 1995

Geosynthetics

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Laboratory Conformance Results for Colback Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Attached please find the laboratory conformance results conducted on Colback ND120 by GeoSyntec Consultants, Boca Raton, Florida.

This lot (#5277) meets the revised Minimum Roll Average Values project specifications for the nonwoven, heat-bonded geotextile recommended by Mr. Cargill in his letter dated May 4, 1995 addressed to Mr. Gladysz of Cashin Associates, P.C.

Lot #5277 will be used for future production of finished rolls of Enkanet 4215-102-0000. Please note that all Letters of Certification from Akzo Nobel include the Colback lot # that was used for each finished roll of Enkanet 4215-102-0000 shipped to the project site.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-220.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28902
Telephone: 704-556-1050
Fax: 704-556-5009



GEO SYNTec CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Alcoa Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTec JOB NO.: FLQ5881

CLIENT ID: Colback ND120 / LOT # 5277
DATE TESTED: 07/19/95

INDIVIDUAL SPECIMENS										SUMMARY RESULTS					
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
115.6	115.8	118.7	111.8	113.2	115.6	116.8	116.6	115.9	115.1	MASS PER UNIT AREA (ASTM D3776)	g/m ²	115.5	1.91		
3.4	3.4	3.5	3.3	3.3	3.4	3.4	3.4	3.4	3.4		oz/yd ²	3.4	0.06		
0.50	0.56	0.55	0.58	0.58	0.52	0.62	0.53	0.52	0.50	THICKNESS (ASTM D1777)	mm	0.55	0.039		
19.7	22.0	21.7	22.8	22.8	20.5	24.4	20.9	20.5	19.7		mil	21.5	1.54		
										GRAB TENSILE STRENGTH (ASTM D4632)	lb				
172.8	157.6	167.1	158.2	189.7	162.8	180.1	188.5	157.3	169.8	RD		170.4	12.26		
168.7	143.1	155.5	147.1	170.5	160.2	162.2	152.5	149.7	141.2	XD		155.1	10.20		
										GRAB ELONGATION (ASTM D4632)	%				
100.7	86.7	92.0	92.3	118.7	78.3	107.7	101.0	95.3	97.7	RD		97.0	11.16		
100.3	80.3	92.0	90.0	99.0	96.3	99.0	84.7	87.3	83.7	XD		91.3	7.19		
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
58.0	59.0	51.0	48.0	53.0	49.0	53.0	52.0	49.0	66.0	RD		53.7	5.54		
48.0	55.0	50.0	45.0	47.0	48.0	50.0	51.0	45.0	54.0	XD		49.4	3.37		
										MULLEN BURST STRENGTH (ASTM D3786)	psi				
145	150	155	150	150	150	160	145	155	163			152	5.9		
52.4	48.7	42.4	50.2	44.5	47.7	47.2	43.2	43.4	44.3	PUNCTURE STRENGTH (ASTM D4833)	lb				
0.233	0.201	0.236	0.231	0.203						APPARENT OPENING SIZE (ASTM D4751)	mm	0.221	0.0173		
60	70	60	60	70							sieve no.*	60	N/A		
										CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	2.778	0.0785		
2.865	2.675	2.795	2.775							FLOW RATE (ASTM D4491)	gal/min ft ²	204.5	5.74		
210.9	197.0	205.8	204.3												

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

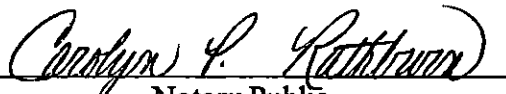
© 1995 GEO SYNTec CONSULTANTS

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 20th day of July, 1995.


Notary Public

My Commission Expires May 7, 2000.

RECEIVED
7/27/95



Geosynthetics

MEMORANDUM

Date: 20 July 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50718001 dated 7/20/95. These letters cover rolls shipped from MLN 507091, 507101, 507121, 507131, 507141, 507151 and 507161. You will receive the hard copies of these results by regular mail.

Wrong #.

Sincerely,

Rick Bowen

Brix-032.fax

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P O Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Fax (704) 665-5099



Date: July 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507091
Manifest No.: 50719008

ROLL(S) TESTED per MLN 507091

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776- Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50709908	0.431	26.9	78.0
50709912	0.424	28.3	77.8
50709916	0.413	27.7	78.3
50709921	0.417	27.2	78.0
Average	0.421	27.5	78.0
Max. Value	0.431	28.3	78.3
Min. Value	0.413	26.9	77.8
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50709904	5254	50701030	10462N	4714-4-9	K1490	50702053	10462N	4714-4-9	K1490
-50709906	5254	50701032	10462N	4714-4-9	K1490	50702045	10462N	4714-4-9	K1490
-50709908	5254	50701036	10462N	4714-4-9	K1490	50702062	10462N	4714-4-9	K1490
-50709909	5254	50701037	10462N	4714-4-9	K1490	50702063	10462N	4714-4-9	K1490
-50709913	5254	50701041	10462N	4714-4-9	K1490	50702058	10462N	4714-4-9	K1490
-50709914	5254	50503034	10462N	3439-5-9	E1338	50702059	10462N	4714-4-9	K1490
-50709915	5254	50701045	10462N	4714-4-9	K1490	50702057	10462N	4714-4-9	K1490
-50709918	5254	50701010	10462N	4714-4-9	K1490	50703011	10462N	4714-4-9	K1490
-50709919	5254	50701043	10462N	4714-4-9	K1490	50703003	10462N	4714-4-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-218nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665 5009



Date: July 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507101
Manifest No.: 50719008

ROLL(S) TESTED per MLN 507101

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50710902	0.408	27.4	77.8
50710906	0.422	27.8	78.0
50710909	0.419	26.4	77.5
50710915	0.427	27.3	77.5
Average	0.419	27.2	77.7
Max. Value	0.427	27.8	78.0
Min. Value	0.408	26.4	77.5
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
50710903	5254	50610037	10462N	3439-5-9	E1338	50702049	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-217nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: July 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507121
Manifest No.: 50719008

ROLL(S) TESTED per MLN 507121

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50712901	0.422	28.7	77.5
50712904	0.417	27.4	77.8
50712912	0.419	29.0	77.8
50712919	0.410	27.5	78.3
Average	0.417	28.2	77.8
Max. Value	0.422	29.0	78.3
Min. Value	0.410	27.4	77.5
Std. Dev.	0.005	0.8	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
- 50712905	5254	50702021	10462N	4714-4-9	K1490	50703053	10462N	4714-4-9	L0007

R.D. Bowen

DN

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-216nyc

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Telex (704) 665-5009



Date: July 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507131
Manifest No.: 50719008

ROLL(S) TESTED per MLN 507131

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50713903	0.418	27.7	78.0
50713912	0.416	27.6	77.5
50713914	0.407	26.9	77.5
50713915	0.409	27.8	77.8
Average	0.413	27.5	77.7
Max. Value	0.418	27.8	78.0
Min. Value	0.407	26.9	77.5
Std. Dev.	0.005	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50713905	5254	50702004	10462N	4714-4-9	K1490	50705035	10462N	4714-4-9	L0007
50713908	5254	50705003	10462N	4714-4-9	K1490	50703063	10462N	4714-4-9	L0007
50713909	5254	50714024	10462N	3439-5-9	E1395	50703046	10462N	4714-4-9	L0007
50713910	5254	50705114	10462N	4714-4-9	K1490	50605040	10462N	4714-4-9	L0007
50713911	5254	50704019	10462N	4714-4-9	K1490	50704005	10462N	4714-4-9	L0007
50713914	5254	50704025	10462N	4714-4-9	K1490	50705046	10462N	4714-4-9	L0007

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Fax: (919) 876-1001



Date: July 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507141
Manifest No.: 50719008

ROLL(S) TESTED per MLN 507141

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50714902	0.404	27.5	77.5
- 50714903	0.405	26.3	77.5
- 50714906	0.399	27.5	77.5
50714909	0.399	28.7	78.0
Average	0.402	27.5	77.6
Max. Value	0.405	28.7	78.0
Min. Value	0.399	26.3	77.5
Std. Dev.	0.003	1.0	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50714903	5254	50704022	10462N	4714-4-9	K1490	50705047	10462N	4714-4-9	L0007
- 50714904	5254	50704023	10462N	4714-4-9	K1490	50705053	10462N	4714-4-9	L0007
- 50714905	5254	50704014	10462N	4714-4-9	K1490	50705048	10462N	4714-4-9	L0007
- 50714906	5254	50704017	10462N	4714-4-9	K1490	50705054	10462N	4714-4-9	L0007
-50714907	5254	50704029	10462N	4714-4-9	K1490	50705057	10462N	4714-4-9	L0007
-50714908	5254	50704026	10462N	4714-4-9	K1490	50705050	10462N	4714-4-9	L0007

R.D. Bowen
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Akron, OH 44316-0100
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Fax: (216) 365-5000



Date: July 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507151
Manifest No.: 50719008

ROLL(S) TESTED per MLN 507151

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50715903	0.399	27.7	77.8
-50715906	0.401	28.0	77.8
-50715910	0.403	27.1	77.5
50715913	0.399	27.5	77.8
Average	0.401	27.6	77.7
Max. Value	0.403	28.0	77.8
Min. Value	0.399	27.1	77.5
Std. Dev.	0.002	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50715901	5254	50705019	10462N	4714-4-9	K1490	50706002	10462N	4714-4-9	L0007
-50715902	5254	50704038	10462N	4714-4-9	K1490	50706017	10462N	4714-4-9	I 1712
-50715904	5254	50705030	10462N	4714-4-9	K1490	50705058	10462N	4714-4-9	L0007
-50715905	5254	50704033	10462N	4714-4-9	K1490	50705052	10462N	4714-4-9	L0007
-50715906	5254	50705025	10462N	4714-4-9	K1490	50705055	10462N	4714-4-9	L0007
-50715907	5254	50704028	10462N	4714-4-9	K1490	50705056	10462N	4714-4-9	L0007
-50715909	5254	50705023	10462N	4714-4-9	K1490	50706005	10462N	4714-4-9	L0007
-50715910	5254	50704040	10462N	4714-4-9	K1490	50706004	10462N	4714-4-9	L0007
-50715911	5254	50704041	10462N	4714-4-9	K1490	50706001	10462N	4714-4-9	L0007
-50715912	5254	50705031	10462N	4714-4-9	K1490	50706013	10462N	4714-4-9	L0007
-50715915	5254	50704030	10462N	4714-4-9	K1490	50705064	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
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Cert-213nyc

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Fax: 803/762-2001



Date: July 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507161
Manifest No.: 50719008

ROLL(S) TESTED per MLN 507161

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50716901	0.399	28.0	77.8
50716904	0.403	27.2	78.0
50716909	0.407	26.6	78.0
50716912	0.397	27.8	78.0
Average	0.402	27.4	77.9
Max. Value	0.407	28.0	78.0
Min. Value	0.397	26.6	77.8
Std. Dev.	0.004	0.6	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50716912	5254	50614020	10462N	3439-5-9	E1395	50629017	10462N	4714-4-9	K1490
-50716913	5254	50704015	10462N	4714-4-9	K1490	50705039	10462N	4714-4-9	L0007
-50716914	5254	50512047	10462N	3439-5-9	E1338	50703007	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-212nyc

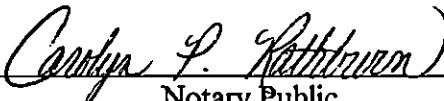
Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
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Asheville, NC 28802
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NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 21st day of July, 1995.


Notary Public

My Commission Expires May 7, 2000.





Geosynthetics

MEMORANDUM

Date: 21 July 1995
From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN
Fax: (704) 665-5043
Tel: (704) 665-5041
To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 10

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50721015 dated 7/21/95. These letters cover rolls shipped from MLN 507091, 507101, 507141, 507151, 507161, 507181, 507191, and 507201. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-033.fax

AKZO Nobel Geosynthetics Company
318 Ridgefield Business Center
Ridgefield Court
P.O. Box 1249
Asheville, NC 28802
(704) 665-5050
(704) 665-5009



Date: July 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507091
Manifest No.: 50721015

ROLL(S) TESTED per MLN 507091

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50709908	0.431	26.9	78.0
50709912'	0.424	28.3	77.8
50709916	0.413	27.7	78.3
50709921	0.417	27.2	78.0
Average	0.421	27.5	78.0
Max. Value	0.431	28.3	78.3
Min. Value	0.413	26.9	77.8
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
~ 50709912	5254	50701035	10462N	4714-4-9	K1490	50703002	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Shelville, NC 28801
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Fax: 704-351-1112



Date: July 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507101
Manifest No.: 50721015

ROLL(S) TESTED per MLN 507101

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50710902	0.408	27.4	77.8
50710906	0.422	27.8	78.0
50710909	0.419	26.4	77.5
50710915	0.427	27.3	77.5
Average	0.419	27.2	77.7
Max. Value	0.427	27.8	78.0
Min. Value	0.408	26.4	77.5
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
50710913	5254	50704063	10462N	4714-4-9	K1490	50703027	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-228nyc

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Telex: 5009



Date: July 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507141
Manifest No.: 50721015

ROLL(S) TESTED per MLN 507141

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50714902	0.404	27.5	77.5
50714903	0.405	26.3	77.5
50714906	0.399	27.5	77.5
50714909	0.399	28.7	78.0
Average	0.402	27.5	77.6
Max. Value	0.405	28.7	78.0
Min. Value	0.399	26.3	77.5
Std. Dev.	0.003	1.0	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
- 50714909	5254	50704027	10462N	4714-4-9	K1490	50704002	10462N	4714-4-9	L0007
- 50714910	5254	50705021	10462N	4714-4-9	K1490	50704001	10462N	4714-4-9	L0007
- 50714911	5254	50704032	10462N	4714-4-9	K1490	50706008	10462N	4714-4-9	L0007
- 50714912	5254	50705020	10462N	4714-4-9	K1490	50706009	10462N	4714-4-9	L0007

R.D. Bowen
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Date: July 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507151
Manifest No.: 50721015

ROLL(S) TESTED per MLN 507151

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50715903	0.399	27.7	77.8
50715906	0.401	28.0	77.8
50715910	0.403	27.1	77.5
50715913	0.399	27.5	77.8
Average	0.401	27.6	77.7
Max. Value	0.403	28.0	77.8
Min. Value	0.399	27.1	77.5
Std. Dev.	0.002	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50715903	5254	50704039	10462N	4714-4-9	K1490	50706016	10462N	4714-4-9	I 1712
50715908	5254	50704035	10462N	4714-4-9	K1490	50705059	10462N	4714-4-9	L0007
50715913	5254	50704036	10462N	4714-4-9	K1490	50705063	10462N	4714-4-9	L0007
50715914	5254	50704037	10462N	4714-4-9	K1490	50706012	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-226nyc

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Fax: 704/565 5009



Date: July 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507161
Manifest No.: 50721015

ROLL(S) TESTED per MLN 507161

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 Core Width Inches
50716901	0.399	28.0	77.8
50716904	0.403	27.2	78.0
50716909	0.407	26.6	78.0
50716912	0.397	27.8	78.0
Average	0.402	27.4	77.9
Max. Value	0.407	28.0	78.0
Min. Value	0.397	26.6	77.8
Std. Dev.	0.004	0.6	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50716901	5254	50704031	10462N	4714-4-9	K1490	50705061	10462N	4714-4-9	L0007
50716902	5254	50705022	10462N	4714-4-9	K1490	50705060	10462N	4714-4-9	L0007
50716903	5254	50705024	10462N	4714-4-9	K1490	50705051	10462N	4714-4-9	L0007
50716904	5254	50704042	10462N	4714-4-9	K1490	50706006	10462N	4714-4-9	L0007
50716905	5254	50704044	10462N	4714-4-9	K1490	50706010	10462N	4714-4-9	L0007
50716906	5254	50513035	10462N	3439-5-9	E1338	50706011	10462N	4714-4-9	L0007
50716908	5254	50704048	10462N	4714-4-9	K1490	50706015	10462N	4714-4-9	I 1712
50716909	5254	50509051	10462N	4714-4-9	H0369	50706014	10462N	4714-4-9	I 1712
50716910	5254	50704045	10462N	4714-4-9	K1490	50629004	10462N	3139-5-9	I 1712
50716911	5254	50705032	10462N	4714-4-9	K1490	50706018	10462N	4714-4-9	L0007

R.D. Bowen
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Date: July 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507181
Manifest No.: 50721015

ROLL(S) TESTED per MLN 507181

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50718901	0.404	26.7	77.5
50718904	0.413	28.5	78.3
50718906	0.411	28.0	78.0
50718908	0.411	28.3	77.5
Average	0.410	27.9	77.8
Max. Value	0.413	28.5	78.3
Min. Value	0.404	26.7	77.5
Std. Dev.	0.004	0.8	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50718901	5254	50704034	10462N	4714-4-9	K1490	50629023	10462N	4714-4-9	K1490
50718902	5254	50704046	10462N	4714-4-9	K1490	50511014	10462N	4714-4-9	E1375
50718903	5254	50704052	10462N	4714-4-9	K1490	50718004	10462N	4714-4-9	I 1712
50718904	5254	50704053	10462N	4714-4-9	K1490	50718010	10462N	4714-4-9	I 1712
50718905	5254	50704050	10462N	4714-4-9	K1490	50718005	10462N	4714-4-9	I 1712
50718906	5254	50705028	10462N	4714-4-9	K1490	50718007	10462N	4714-4-9	I 1712
50718907	5254	50705026	10462N	4714-4-9	K1490	50718006	10462N	4714-4-9	I 1712
50718908	5254	50605027	10462N	4714-4-9	K1490	50718028	10462N	4714-4-9	I 1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-219nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: 704-555-5050
Telex: 704-555-5009



Date: July 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507191
Manifest No.: 50721015

ROLL(S) TESTED per MLN 507191

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
-50719901	0.395	26.6	78.3
-50719904	0.405	29.5	78.0
-50719909	0.406	28.5	79.0
50719911	0.400	27.4	79.0
Average	0.402	28.0	78.6
Max. Value	0.406	29.5	79.0
Min. Value	0.395	26.6	78.0
Std. Dev.	0.005	1.3	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015							
Roll Number	Colback	Amoco				Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
-50719902	5254	50513003	10462N	3439-5-9	E1338	50718029	10462N	4714-4-9	L0007
-50719904	5254	50701034	10462N	4714-4-9	K1490	50718025	10462N	4714-4-9	I 1712
-50719906	5254	50418001	10462N	3145-5-9	E1338	50718031	10462N	4714-4-9	L0007
-50719908	5254	50704051	10462N	4714-4-9	K1490	50718012	10462N	4714-4-9	K1490
-50719909	5254	50509047	10462N	4714-4-9	E1338	50718011	10462N	4714-4-9	K1490
-50719910	5254	50509020	10462N	4714-4-9	E1338	50718018	10462N	4714-4-9	L0008
-50719912	5254	50418010	10462N	3145-5-9	E1338	50718014	10462N	4714-4-9	KI1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-224nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P O Box 7249
Asheville NC 28802
Telephone (704) 665 5050
Fax (704) 665 5009



Date: July 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507201
Manifest No.: 50721015

ROLL(S) TESTED per MLN 507201

ROLL No. TESTED	ASTM D1777 Composite Thick. Inches	ASTM 3776 Mass/ Unit Area Total (oz/yd ²)	ASTM D3774 Core Width Inches
✓50720901	0.406	27.7	78.5
✓50720902	0.414	28.5	79.0
50720913	0.418	29.9	78.5
50720915	0.403	28.7	78.5
Average	0.410	28.7	78.6
Max. Value	0.418	29.9	79.0
Min. Value	0.403	27.7	78.5
Std. Dev.	0.007	0.9	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
✓50720901	5254	50510006	10462N	4714-4-9	E1338	50718013	10462N	4714-4-9	K1490
✓50720902	5254	50719008	10462N	4714-4-9	K1490	50718015	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-223nyc

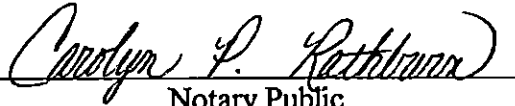
Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-2555
Fax: (704) 665-5000

NORTH CAROLINA

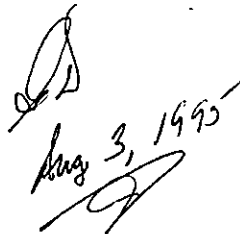
BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 25th day of July, 1995.


Notary Public

My Commission Expires May 7, 2000.


Aug 3, 1995



Geosynthetics

MEMORANDUM

Date: 25 July 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50725007 dated 7/25/95. These letters cover rolls shipped from MLN 507201, 507211, 507221, 507231, and 507241. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-034.fax

Akzo Nobel Geosynthetics Corporation
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telefax: (704) 665-5009



Date: July 25, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507201
Manifest No.: 50725007

ROLL(S) TESTED per MLN 507201

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50720901	0.406	27.7	78.5
50720902	0.414	28.5	79.0
50720913✓	0.418	29.9	78.5
50720915✓	0.403	28.7	78.5
Average	0.410	28.7	78.6
Max. Value	0.418	29.9	79.0
Min. Value	0.403	27.7	78.5
Std. Dev.	0.007	0.9	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Amoco Ship #</u>
50720911✓	5254	50719016	10462N	4714-4-9	H0369	50718038	10462N	4714-4-9	L0007
50720912✓	5254	50719043	10462N	4714-4-9	K1490	50718036	10462N	4714-4-9	L0007
50720913✓	5254	50719017	10462N	4714-4-9	H0369	50718032	10462N	4714-4-9	L0007
50720914✓	5254	50719022	10462N	4714-4-9	H0369	50718042	10462N	4714-4-9	L0007
50720915✓	5254	50719018	10462N	4714-4-9	H0369	50718039	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-238nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
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Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: July 25, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507211
Manifest No.: 50725007

ROLL(S) TESTED per MLN 507211

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50721901'	0.409	27.9	78.0
50721904'	0.411	27.7	78.3
50721908'	0.412	28.6	79.0
50721911'	0.422	28.2	79.0
Average	0.414	28.1	78.6
Max. Value	0.422	28.6	79.0
Min. Value	0.409	27.7	78.0
Std. Dev.	0.006	0.4	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50721901'	5254	50719023	10462N	4714-4-9	H0369	50718043	10462N	4714-4-9	L0007
50721902'	5254	50719019	10462N	4714-4-9	H0369	50718046	10462N	4714-4-9	L0007
50721903'	5277	50719020	10462N	4714-4-9	H0369	50719001	10462N	4714-4-9	L0007
50721904'	5277	50719021	10462N	4714-4-9	H0369	50718033	10462N	4714-4-9	L0007
50721905'	5277	50719027	10462N	4714-4-9	M1096	50718037	10462N	4714-4-9	L0007
50721906'	5277	50719024	10462N	4714-4-9	M1096	50718044	10462N	4714-4-9	L0007
50721907'	5277	50719025	10462N	4714-4-9	M1096	50718045	10462N	4714-4-9	L0007
50721908'	5277	50719028	10462N	4714-4-9	M1096	50719003	10462N	4714-4-9	L0007
50721909'	5277	50719029	10462N	4714-4-9	F0296	50719002	10462N	4714-4-9	L0007
50721911'	5277	50721021	10462N	4714-4-9	K1490	50719004	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-237nyc

Akzo Nobel Geosynthetics Company
Suite 518, Ridgefield Business Center
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P.O. Box 7249
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Telephone: (704) 665-5571
Telex: 701 511 1900



Date: July 25, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507221
Manifest No.: 50725007

ROLL(S) TESTED per MLN 507221

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50722901	0.416	28.6	79.0
50722904✓	0.422	28.2	78.5
50722908✓	0.415	27.7	78.0
50722909✓	0.407	27.8	78.0
Average	0.415	28.1	78.4
Max. Value	0.422	28.6	79.0
Min. Value	0.407	27.7	78.0
Std. Dev.	0.006	0.4	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50722902✓	5277	50719037	10462N	4714-4-9	K1490	50720009	10462N	4714-4-9	L0007
50722903✓	5277	50719031	10462N	4714-4-9	F0296	50720038	10462N	4714-4-9	L0007
50722904✓	5277	50719032	10462N	4714-4-9	K1490	50720011	10462N	4714-4-9	L0007
50722905✓	5277	50719042	10462N	4714-4-9	K1490	50719005	10462N	4714-4-9	L0007
50722906✓	5277	50719033	10462N	4714-4-9	K1490	50720006	10462N	4714-4-9	L0007
50722907✓	5277	50719034	10462N	4714-4-9	K1490	50720007	10462N	4714-4-9	L0007
50722908✓	5277	50719039	10462N	4714-4-9	K1490	50720013	10462N	4714-4-9	L0007
50722909✓	5277	50721022	10462N	3590-5-9	K1490	50720018	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-236nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665 5050
Telex 704 665-5009



Date: July 25, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507231
Manifest No.: 50725007

ROLL(S) TESTED per MLN 507231

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50723901✓	0.425	30.0	78.3
50723903✓	0.410	29.0	78.0
50723905✓	0.418	28.6	77.5
50723907✓	0.422	28.8	77.8
Average	0.419	29.1	77.9
Max. Value	0.425	30.0	78.3
Min. Value	0.410	28.6	77.5
Std. Dev.	0.007	0.6	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50723901✓	5277	50721023	10462N	3590-5-9	K1490	50720019	10462N	4714-4-9	L0007
50723902✓	5277	50719036	10462N	4714-4-9	K1490	50720014	10462N	4714-4-9	L0007
50723903✓	5277	50719067	10462N	4714-4-9	E1395	50720015	10462N	4714-4-9	L0007
50723904✓	5277	50719035	10462N	4714-4-9	K1490	50720016	10462N	4714-4-9	L0007
50723905✓	5277	50720001	10462N	4714-4-9	E1395	50720024	10462N	4714-4-9	K1490
50723906✓	5277	50719040	10462N	4714-4-9	K1490	50720025	10462N	4714-4-9	K1490
50723907✓	5277	50720004	10462N	4714-4-9	E1395	50720028	10462N	4714-4-9	K1490
50723908✓	5277	50720022	10462N	4714-4-9	L0007	50720029	10462N	4714-4-9	K1490
50723909✓	5277	50720005	10462N	4714-4-9	E1395	50720012	10462N	4714-4-9	L0007
50723910✓	5277	50720002	10462N	4714-4-9	E1395	50720023	10462N	4714-4-9	K1490
50723911✓	5277	50720003	10462N	4714-4-9	E1395	50720026	10462N	4714-4-9	K1490
50723912✓	5277	50723008	10462N	3590-5-9	E1395	50722037	10462N	3590-5-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-235nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone: 704-655-5051
Telex: 655009



Date: July 25, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507241
Manifest No.: 50725007

ROLL(S) TESTED per MLN 507241

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50724901	0.414	28.3	77.8
50724906	0.417	29.4	78.0
50724909	0.420	28.7	78.0
Average	0.417	28.8	77.9
Max. Value	0.420	29.4	78.0
Min. Value	0.414	28.3	77.8
Std. Dev.	0.003	0.6	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50724901	5277	50723011	10462N	3590-5-9	E1395	50722042	10462N	3590-5-9	L0007
50724905	5277	50721024	10462N	3590-5-9	K1490	50720021	10462N	4714-4-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-234nyc

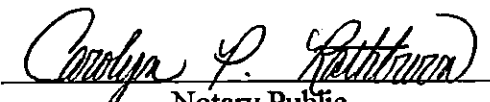
Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665 5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 27th day of July, 1995.



Notary Public

My Commission Expires May 7, 2000.

Reviewed on Aug. 4, 1995
AD



Geosynthetics

MEMORANDUM

Date: 27 July 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50727003 dated 7/27/95. These letters cover rolls shipped from MLN 507241, 507251, 507261, and 507271. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-035.fax

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Fax (704) 665-5039



Date: July 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507271
Manifest No.: 50527003

ROLL(S) TESTED per MLN 507271

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50727903 ✓	0.414	28.2	77.8
50727906 ✓	0.404	28.2	77.8
50727912	0.420	29.2	77.5
Average	0.413	28.5	77.7
Max. Value	0.420	29.2	77.8
Min. Value	0.404	28.2	77.5
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50727901 ✓	5277	50721058	10462N	3590-5-9	E1395	50722018	10462N	3590-5-9	L0007
50727902 ✓	5277	50721050	10462N	3590-5-9	K1490	50722016	10462N	3590-5-9	L0007
50727903 ✓	5277	50719063	10462N	4714-4-9	E1395	50722028	10462N	3590-5-9	L0007
50727904 ✓	5277	50721063	10462N	3590-5-9	E1395	50722027	10462N	3590-5-9	L0007
50727905 ✓	5277	50719064	10462N	4714-4-9	E1395	50722021	10462N	3590-5-9	L0007
50727906 ✓	5277	50721059	10462N	3590-5-9	E1395	50722017	10462N	3590-5-9	L0007
50727907 ✓	5277	50721060	10462N	3590-5-9	E1395	50722025	10462N	3590-5-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-244nyc



Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
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Telephone (704) 665 5050
Telex (704) 665 5009



Date: July 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507261
Manifest No.: 50527003

ROLL(S) TESTED per MLN 507261

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50726903	0.412	27.8	78.0
50726908	0.410	27.6	77.8
50726913✓	0.414	28.7	77.5
50726921	0.413	28.3	77.5
Average	0.412	28.1	77.7
Max. Value	0.414	28.7	78.0
Min. Value	0.410	27.6	77.5
Std. Dev.	0.002	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50726905✓	5277	50721044	10462N	3590-5-9	K1490	50720046	10462N	3590-5-9	L0007
50726906✓	5277	50719057	10462N	4714-4-9	E1395	50722008	10462N	3590-5-9	L0007
50726907✓	5277	50719058	10462N	4714-4-9	E1395	50722007	10462N	3590-5-9	L0007
50726910✓	5277	50719054	10462N	4714-4-9	K1490	50722009	10462N	3590-5-9	L0007
50726911✓	5277	50719053	10462N	4714-4-9	K1490	50722010	10462N	3590-5-9	L0007
50726912✓	5277	50721047	10462N	3590-5-9	K1490	50720043	10462N	3590-5-9	L0007
50726913✓	5277	50721042	10462N	3590-5-9	E1395	50720049	10462N	3590-5-9	L0007
50726914✓	5277	50721057	10462N	3590-5-9	E1395	50720044	10462N	3590-5-9	L0007
50726915✓	5277	50719061	10462N	4714-4-9	E1395	50722013	10462N	3590-5-9	L0007
50726916✓	5277	50721055	10462N	3590-5-9	K1490	50722014	10462N	3590-5-9	L0007
50726917✓	5277	50719049	10462N	4714-4-9	K1490	50722011	10462N	3590-5-9	L0007
50726918✓	5277	50721036	10462N	3590-5-9	E1395	50720050	10462N	3590-5-9	L0007
50726919✓	5277	50721048	10462N	3590-5-9	K1490	50722019	10462N	3590-5-9	L0007

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
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P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Date: July 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Geosynthetics

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507261
Manifest No.: 50527003

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50726920'	5277	50721051	10462N	3590-5-9	K1490	50722005	10462N	3590-5-9	L0007
50726922'	5277	50719045	10462N	4714-4-9	K1490	50722020	10462N	3590-5-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-243nyc

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Telex (704) 665 5000



Date: July 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507251
Manifest No.: 50527003

ROLL(S) TESTED per MLN 507251

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50725903✓	0.409	27.7	77.8
50725906✓	0.419	29.9	77.8
50725915	0.414	28.6	77.5
50725918	0.429	28.5	77.5
Average	0.418	28.7	77.7
Max. Value	0.429	29.9	77.8
Min. Value	0.409	27.7	77.5
Std. Dev.	0.009	0.9	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50725901✓	5277	50721028	10462N	3590-5-9	E1395	50720031	10462N	4714-4-9	K1490
50725902✓	5277	50721026	10462N	3590-5-9	E1395	50720030	10462N	4714-4-9	K1490
50725903✓	5277	50721027	10462N	3590-5-9	E1395	50720036	10462N	4714-4-9	L0007
50725904✓	5277	50721032	10462N	3590-5-9	E1395	50722047	10462N	3590-5-9	L0007
50725905✓	5277	50721033	10462N	3590-5-9	E1395	50722046	10462N	3590-5-9	L0007
50725906✓	5277	50721002	10462N	3590-5-9	E1395	50722045	10462N	3590-5-9	L0007
50725919✓	5277	50721040	10462N	3590-5-9	E1395	50720052	10462N	3590-5-9	L0007
50725920✓	5277	50721041	10462N	3590-5-9	E1395	50720032	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-241nyc

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Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Date: July 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507241
Manifest No.: 50527003

ROLL(S) TESTED per MLN 507241

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50724901	0.414	28.3	77.8
50724906 ✓	0.417	29.4	78.0
50724909 ✓	0.420	28.7	78.0
Average	0.417	28.8	77.9
Max. Value	0.420	29.4	78.0
Min. Value	0.414	28.3	77.8
Std. Dev.	0.003	0.6	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50724902 ✓	5277	50723010	10462N	3590-5-9	E1395	50720027	10462N	4714-4-9	K1490
50724904 ✓	5277	50723012	10462N	3590-5-9	E1395	50722036	10462N	3590-5-9	L0007
50724906 ✓	5277	50723013	10462N	3590-5-9	E1395	50720020	10462N	4714-4-9	L0007
50724907 ✓	5277	50721008	10462N	3590-5-9	K1490	50722040	10462N	3590-5-9	L0007
50724908 ✓	5277	50514014	10462N	3439-5-9	E1338	50722039	10462N	3590-5-9	L0007
50724909 ✓	5277	50723005	10462N	3590-5-9	E1395	50720033	10462N	4714-4-9	K1490
50724910 ✓	5277	50723005	10462N	3590-5-9	E1395	50720034	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-240nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Fax: (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 28th day of July, 1995.

Carolyn P. Rathburn
Notary Public

My Commission Expires May 7, 2000.

*Reviewed on 8/1/95
[Signature]*



Geosynthetics

MEMORANDUM

Date: 28 July 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 35 rolls shipped to you under manifest number 50728007 dated 7/28/95. These letters cover rolls shipped from MLN 507091, 507251, 507261, 507271, and 507281. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-036.fax

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5041
Telex: 665 5000



Date: July 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507091
Manifest No.: 50728007

ROLL(S) TESTED per MLN 507091

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50709908	0.431	26.9	78.0
50709912	0.424	28.3	77.8
50709916	0.413	27.7	78.3
50709921	0.417	27.2	78.0
Average	0.421	27.5	78.0
Max. Value	0.431	28.3	78.3
Min. Value	0.413	26.9	77.8
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50709901	5254	50701022	10462N	4714-4-9	K1490	50702055	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-251nyc

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Asheville, NC 28802
Telephone (704) 665-1111
Telex (704) 665-5019



Date: July 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507251
Manifest No.: 50728007

ROLL(S) TESTED per MLN 507251

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50725903	0.409	27.7	77.8
50725906	0.419	29.9	77.8
50725915✓	0.414	28.6	77.5
50725918✓	0.429	28.5	77.5
Average	0.418	28.7	77.7
Max. Value	0.429	29.9	77.8
Min. Value	0.409	27.7	77.5
Std. Dev.	0.009	0.9	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50725907✓	5277	50721003	10462N	3590-5-9	E1395	50722043	10462N	3590-5-9	L0007
50725908✓	5277	50723004	10462N	3590-5-9	E1395	50720035	10462N	4714-4-9	L0007
50725909✓	5277	50721025	10462N	3590-5-9	E1395	50722049	10462N	3590-5-9	L0007
50725910✓	5277	50721009	10462N	3590-5-9	K1490	50722050	10462N	3590-5-9	L0007
50725911✓	5277	50721035	10462N	3590-5-9	E1395	50722051	10462N	3590-5-9	L0007
50725912✓	5277	50721038	10462N	3590-5-9	E1395	50720041	10462N	4714-4-9	K1490
50725913✓	5277	50721034	10462N	3590-5-9	E1395	50720039	10462N	4714-4-9	K1490
50725914✓	5277	50721039	10462N	3590-5-9	E1395	50720042	10462N	4714-4-9	L0007
50725915✓	5277	50719047	10462N	4714-4-9	K1490	50722052	10462N	3590-5-9	L0007
50725916✓	5277	50719048	10462N	4714-4-9	K1490	50720017	10462N	4714-4-9	L0007
50725917✓	5277	50721005	10462N	3590-5-9	E1395	50720051	10462N	3590-5-9	L0007
50725918✓	5277	50721031	10462N	3590-5-9	E1395	50720040	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-250nyc

Akzo Nobel Geosynthetics Company
Suite 518, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Akron, OH 44308
Tel: (216) 385-1000
Fax: (216) 385-1001



Geosynthetics

Date: July 28, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507261
Manifest No.: 50728007

ROLL(S) TESTED per MLN 507261

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50726903/	0.412	27.8	78.0
50726908/	0.410	27.6	77.8
50726913	0.414	28.7	77.5
50726921	0.413	28.3	77.5
Average	0.412	28.1	77.7
Max. Value	0.414	28.7	78.0
Min. Value	0.410	27.6	77.5
Std. Dev.	0.002	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50726901/	5277	50719050	10462N	4714-4-9	K1490	50720053	10462N	3590-5-9	L0007
50726902/	5277	50719051	10462N	4714-4-9	K1490	50722031	10462N	3590-5-9	L0007
50726903/	5277	50719052	10462N	4714-4-9	K1490	50722032	10462N	3590-5-9	L0007
50726904/	5277	50721045	10462N	3590-5-9	K1490	50720045	10462N	3590-5-9	L0007
50726908/	5277	50719059	10462N	4714-4-9	E1395	50722004	10462N	3590-5-9	L0007
50726909/	5277	50719060	10462N	4714-4-9	E1395	50722003	10462N	3590-5-9	L0007
50726921/	5277	50721043	10462N	3590-5-9	K1490	50720047	10462N	3590-5-9	L0007

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-249nyc

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Asheville, NC 28802
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Telex (704) 665-5000



Date: July 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507271
Manifest No.: 50528007

ROLL(S) TESTED per MLN 507271

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50727903	0.414	28.2	77.8
50727906	0.404	28.2	77.8
50727912✓	0.420	29.2	77.5
Average	0.413	28.5	77.7
Max. Value	0.420	29.2	77.8
Min. Value	0.404	28.2	77.5
Std. Dev.	0.008	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50727908✓	5277	50721065	10462N	3590-5-9	K1490	50722026	10462N	3590-5-9	L0007
50727909✓	5277	50719062	10462N	4714-4-9	E1395	50726009	10462N	3139-5-9	L0007
50727910✓	5277	50719044	10462N	4714-4-9	K1490	50722015	10462N	3590-5-9	L0007
50727911✓	5277	50724007	10462N	3590-5-9	E1395	50726006	10462N	3139-5-9	L0007
50727912✓	5277	50725118	10462N	3139-5-9	L0007	50722053	10462N	3590-5-9	L0007
50727913✓	5277	50724012	10462N	3590-5-9	E1395	50726008	10462N	3139-5-9	L0007
50727914✓	5277	50724013	10462N	3590-5-9	E1395	50702024	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-245nyc

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Asheville, NC 28802
Telephone (704) 665-5050
Telex 964565-5000



Date: July 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507281
Manifest No.: 50728007

ROLL(S) TESTED per MLN 507281

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50728903✓	0.412	28.7	77.5
50728906	0.416	28.5	78.0
50728908✓	0.426	28.5	77.5
Average	0.418	28.6	77.7
Max. Value	0.426	28.7	78.0
Min. Value	0.412	28.5	77.5
Std. Dev.	0.007	0.1	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50728901✓	5277	50721052	10462N	3590-5-9	K1490	50722024	10462N	3590-5-9	L0007
50728902✓	5277	50719065	10462N	4714-4-9	E1395	50722033	10462N	3590-5-9	L0007
50728903✓	5277	50719066	10462N	4714-4-9	E1395	50722034	10462N	3590-5-9	L0007
50728904✓	5277	50724010	10462N	3590-5-9	E1395	50726010	10462N	3139-5-9	L0007
50728905✓	5277	50724005	10462N	3590-5-9	E1395	50726016	10462N	3139-5-9	L0007
50728908✓	5277	50724004	10462N	3590-5-9	E1395	50726020	10462N	3139-5-9	L0007
50728909✓	5277	50721056	10462N	3590-5-9	K1490	50726019	10462N	3139-5-9	L0007
50728911✓	5277	50721067	10462N	3590-5-9	K1490	50726021	10462N	3139-5-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-247nyc

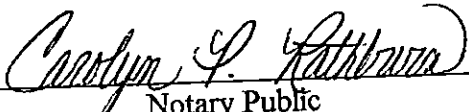
Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Tel: 704-665-5050
Fax: 704-665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 2nd day of August, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: 2 August 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50802008 dated 8/02/95. These letters cover rolls shipped from MLN 507281, 507291, 507301, 507311, and 508011. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

*Rec by DLO
OK*

Brix-037.fax

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: August 2, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507281
Manifest No.: 50802008

ROLL(S) TESTED per MLN 507281

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50728903	0.412	28.7	77.5
50728906	0.416	28.5	78.0
50728908	0.426	28.5	77.5
50728915	0.409	28.1	77.8
50728921	0.410	27.6	77.8
Average	0.415	28.3	77.7
Max. Value	0.426	28.7	78.0
Min. Value	0.409	28.1	77.5
Std. Dev.	0.007	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50728912	5277	50721066	10462N	3590-5-9	K1490	50722006	10462N	3590-5-9	L0007
50728913	5277	50724001	10462N	3590-5-9	E1395	50722055	10462N	3590-5-9	L0007
50728914	5277	50721046	10462N	3590-5-9	K1490	50726005	10462N	3139-5-9	L0007
50728915	5277	50721064	10462N	3590-5-9	E1395	50722030	10462N	3590-5-9	L0007
50728916	5277	50723002	10462N	3590-5-9	E1395	50722044	10462N	3590-5-9	L0007
50728917	5277	50723003	10462N	3590-5-9	E1395	50726013	10462N	3139-5-9	L0007
50728918	5277	50721068	10462N	3590-5-9	K1490	50726003	10462N	3139-5-9	L0007
50728919	5277	50721062	10462N	3590-5-9	E1395	50722022	10462N	3139-5-9	L0007
50728920	5277	50723006	10462N	3590-5-9	E1395	50726004	10462N	3139-5-9	L0007
50728921	5277	50723007	10462N	3590-5-9	E1395	50725132	10462N	3139-5-9	L0007
50728922	5277	50721011	10462N	3590-5-9	K1490	50725133	10462N	3139-5-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Telephone: (704) 665-5050
Telefax: (704) 665-5000



Date: August 2, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507291
Manifest No.: 50802008

ROLL(S) TESTED per MLN 507291

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50729903	0.400	28.0	77.5
50729906	0.420	28.5	77.5
50729907	0.421	28.7	77.0
Average	0.414	28.4	77.3
Max. Value	0.421	28.7	77.5
Min. Value	0.400	28.0	77.0
Std. Dev.	0.012	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50729901	5277	50721018	10462N	3590-5-9	K1490	50725128	10462N	3139-5-9	L0007
50729902	5277	50721019	10462N	3590-5-9	K1490	50726001	10462N	3139-5-9	L0007
50729903	5277	50721012	10462N	3590-5-9	K1490	50726002	10462N	3139-5-9	L0007
50729904	5277	50721013	10462N	3590-5-9	K1490	50725131	10462N	3139-5-9	L0007
50729905	5277	50721016	10462N	3590-5-9	K1490	50725130	10462N	3139-5-9	L0007
50729906	5277	50721017	10462N	3590-5-9	K1490	50725114	10462N	3139-5-9	L0007

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Geosynthetics

Date: August 2, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507301
Manifest No.: 50802008

ROLL(S) TESTED per MLN 507301

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50730903	0.419	28.7	77.5
50730906	0.417	28.3	77.8
50730908	0.423	28.4	78.0
50730910	0.417	28.8	78.0
Average	0.419	28.6	77.8
Max. Value	0.423	28.8	78.0
Min. Value	0.417	28.3	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
50730902	5277	50721006	10462N	3590-5-9	K1490	50725126	10462N	3139-5-9	L0007
50730903	5277	50723019	10462N	3590-5-9	E1395	50725124	10462N	3139-5-9	L0007
50730905	5277	50722002	10462N	3590-5-9	K1490	50726023	10462N	3139-5-9	L0007
50730906	5277	50723020	10462N	3590-5-9	E1395	50726024	10462N	3139-5-9	L0007
50730907	5277	50722001	10462N	3590-5-9	K1490	50726025	10462N	3139-5-9	L0007
50730908	5277	50723016	10462N	3590-5-9	E1395	50726026	10462N	3139-5-9	L0007
50730909	5277	50723021	10462N	3590-5-9	E1395	50725113	10462N	3145-5-9	L0007
50730910	5277	50723017	10462N	3590-5-9	E1395	50725120	10462N	3139-5-9	L0007

R.D. Bowen

R.D. Bowen
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Date: August 2, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507311
Manifest No.: 50802008

ROLL(S) TESTED per MLN 507311

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50731901	0.422	29.1	77.8
50731903	0.421	27.8	77.8
50731905	0.424	28.9	78.0
50731907	0.411	28.0	77.8
50731909	0.413	27.9	77.8
50731911	0.409	26.8	79.3
Average	0.417	28.1	78.1
Max. Value	0.424	29.1	79.3
Min. Value	0.409	26.8	77.8
Std. Dev.	0.006	0.8	0.6

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50731901	5277	50723032	10462N	3590-5-9	E1395	50725123	10462N	3139-5-9	L0007
50731902	5277	50723029	10462N	3590-5-9	E1395	50722012	10462N	3590-5-9	L0007
50731903	5277	50723030	10462N	3590-5-9	E1395	50725122	10462N	3139-5-9	L0007
50731904	5277	50723031	10462N	3590-5-9	E1395	50725116	10462N	3139-5-9	L0007
50731905	5277	50723025	10462N	3590-5-9	E1395	50722029	10462N	3590-5-9	L0007
50731906	5277	50723026	10462N	3590-5-9	E1395	50718008	10462N	4714-4-9	I 1712
50731907	5277	50721037	10462N	3590-5-9	E1395	50725121	10462N	3139-5-9	L0007
50731908	5277	50723040	10462N	3590-5-9	E1395	50702064	10462N	4714-4-9	K1490
50731909	5277	50723023	10462N	3590-5-9	E1395	50725115	10462N	3139-5-9	L0007

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Date: August 2, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508011
Manifest No.: 50802008

ROLL(S) TESTED per MLN 508011

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50801901	0.426	29.1	77.5
50801903	0.414	25.6	78.3
Average	0.420	27.4	77.9
Max. Value	0.426	29.1	78.3
Min. Value	0.414	25.6	77.5
Std. Dev.	0.008	2.5	0.6

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50801901	5277	50723034	10462N	3590-5-9	E1395	50629011	10462N	4714-4-9	K1490
50801902	5277	50723041	10462N	3590-5-9	E1395	50721001	10462N	3590-5-9	L0007
50801903	5277	50723039	10462N	3590-5-9	E1395	50726015	10462N	3139-5-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
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Kick

Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Mableton, Georgia 31533-0451

August 7, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # 00955, dated August 4, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	250	310
Puncture, lbs.	ASTM-D-4833 (Mod1)	75	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, % (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3076	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell

Bennie J. Boutwell
Quality Assurance Manager
Amoco Fabrics and Fibers Company

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29/8/95

DW OK

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31539-0451

August 22, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 00955, dated August 4, 1995

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Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	120 Tensile	50 Elong	250 Burst	75 Puncture	45 Trap	70 Tear A.O.S.
1848939	4597	5.05	57	135	68	347	124	62	100+
1848940	4597	5.05	57	135	68	347	124	62	100+
1848941	4597	5.05	57	135	68	347	124	62	100+
1848942	4597	5.27	54	138	70	331	118	60	100+
1848943	4597	5.27	54	138	70	331	118	60	100+
1848944	4597	5.27	54	138	70	331	118	60	100+
1848954	4597	5.23	61	126	64	359	117	59	100+
1848955	4597	5.23	61	126	64	359	117	59	100+
1849000	4597	5.40	59	127	68	341	106	60	100+
1849059	4597	5.66	65	120	69	344	129	78	100+
1849091	4597	5.18	53	144	61	347	113	67	100+
1849097	4597	5.03	49	138	61	296✓	106	56	100+
1849098	4597	5.03	49	138	61	296✓	106	56	100+
1849110	4597	4.95	53	143	56	318	116	60	100+
1849111	4597	4.95	53	143	56	318	116	60	100+
1849112	4597	4.95	53	143	56	318	116	60	100+
1849114	4597	5.17	57	127	60	322	97	86	100+
1849115	4597	5.17	57	127	60	322	97	86	100+
1849116	4597	5.17	57	127	60	322	97	86	100+
1849129	4597	5.29	55	131	59	305	110	51	100+
1849130	4597	5.29	55	131	59	305	110	51	100+
1849131	4597	5.29	55	131	59	305	110	51	100+
1849133	4597	5.19	58	140	60	341	124	82	100+
1849134	4597	5.19	58	140	60	341	124	82	100+
1849135	4597	5.19	58	140	60	341	124	82	100+
1849141	4597	5.30	55	143	62	299✓	109	57	100+
1849142	4597	5.30	55	143	62	299✓	109	57	100+
1849143	4597	5.30	55	143	62	299✓	109	57	100+
1849154	4597	5.35	55	125	60	324	97	82	100+

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
Hazlehurst, Georgia 31536-0451

August 22, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 00955, dated August 4, 1995

Piece	Weight								
Number	Style	Yd. 2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trip Tear	A.O.S.
1849155	4597	5.35	55	125	60	324	97	82	100+
1849156	4597	5.35	55	125	60	324	97	82	100+
1849159	4597	5.17	57	132	55	377	113	54	100+
1849160	4597	5.17	57	132	55	377	113	54	100+
1849161	4597	5.17	57	132	55	377	113	54	100+
1849171	4597	5.52	58	134	69	310	107	95	100+
1849172	4597	5.52	58	134	69	310	107	95	100+
1849173	4597	5.52	58	134	69	310	107	95	100+
1849175	4597	5.13	54	122	54	339	99	69	100+
1849176	4597	5.13	54	122	54	339	99	69	100+
1849177	4597	5.13	54	122	54	339	99	69	100+
1849187	4597	5.33	58	137	58	317	127	54	100+
1849188	4597	5.33	58	137	58	317	127	54	100+
1849189	4597	5.33	58	137	58	317	127	54	100+
1849190	4597	5.38	57	131	69	332	112	72	100+
1849191	4597	5.38	57	131	69	332	112	72	100+
1849192	4597	5.38	57	131	69	332	112	72	100+
1849217	4597	5.49	57	126	66	333	100	71	100+
1849218	4597	5.49	57	126	66	333	100	71	100+
1849219	4597	5.49	57	126	66	333	100	71	100+
1849221	4597	5.22	55	121	68	284	92	57	100+
1849222	4597	5.22	55	121	68	284	92	57	100+
1849223	4597	5.22	55	121	68	284	92	57	100+
1849233	4597	5.33	58	140	59	331	115	54	100+
1849234	4597	5.33	58	140	59	331	115	54	100+
1849235	4597	5.33	58	140	59	331	115	54	100+
1849236	4597	5.16	52	129	57	305	102	51	100+
1849237	4597	5.16	52	129	57	305	102	51	100+
1849238	4597	5.16	52	129	57	305	102	51	100+
1849240	4597	5.10	53	134	63	277	106	46	100+

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 638
Hazlehurst, Georgia 31539-0451

August 22, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 00955, dated August 4, 1995

Piece	Weight			120	50	250	75	45	70
Number	Style	Yd. 2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trip Tear	A.O.S.
1849241	4597	5.10	53	134	63	277	106	46	100+
1849242	4597	5.10	53	134	63	277	106	46	100+
1849271	4597	5.44	58	139	61	377	126	62	100+
1849272	4597	5.44	58	139	61	377	126	62	100+
1849273	4597	5.44	58	139	61	377	126	62	100+
1849274	4597	5.46	58	136	65	318	99	65	100+
1849275	4597	5.46	58	136	65	318	99	65	100+
1849276	4597	5.46	58	136	65	318	99	65	100+
1849278	4597	5.29	57	129	65	283	112	66	100+
1849279	4597	5.29	57	129	65	283	112	66	100+
1849280	4597	5.29	57	129	65	283	112	66	100+
1849282	4597	5.53	62	132	67	297	106	83	100+
1849283	4597	5.53	62	132	67	297	106	83	100+
1849284	4597	5.53	62	132	67	297	106	83	100+
1849318	4597	5.49	58	137	64	367	119	57	100+
1849319	4597	5.49	58	137	64	367	119	57	100+
1849320	4597	5.49	58	137	64	367	119	57	100+
1849321	4597	5.50	57	136	62	309	116	59	100+
1849322	4597	5.50	57	136	62	309	116	59	100+
1849323	4597	5.50	57	136	62	309	116	59	100+
1849357	4597	5.51	58	141	64	312	96	57	100+
1849358	4597	5.51	58	141	64	312	96	57	100+
1849359	4597	5.51	58	141	64	312	96	57	100+
1849376	4597	5.41	61	148	67	344	119	65	100+
1849377	4597	5.41	61	148	67	344	119	65	100+
1849378	4597	5.41	61	148	67	344	119	65	100+
1849379	4597	5.35	58	149	63	321	108	59	100+
1849380	4597	5.35	58	149	63	321	108	59	100+
1849381	4597	5.35	58	149	63	321	108	59	100+
1849382	4597	5.56	61	142	64	340	118	64	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 838
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August 22, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 00955, dated August 4, 1995

Piece	Weight			120	50	250	75	45	70
Number	Style	Yd. 2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1849383	4597	5.56	61	142	64	340	118	64	100+
1849384	4597	5.56	61	142	64	340	118	64	100+
1849396	4597	5.36	55	125	65	311	100	81	100+
1849397	4597	5.36	55	125	65	311	100	81	100+
1849398	4597	5.36	55	125	65	311	100	81	100+
1849400	4597	5.32	54	128	62	311	111	63	100+
1849401	4597	5.32	54	128	62	311	111	63	100+
1849402	4597	5.32	54	128	62	311	111	63	100+
1849426	4597	5.47	55	136	64	320	118	63	100+
1849427	4597	5.47	55	136	64	320	118	63	100+
1849428	4597	5.47	55	136	64	320	118	63	100+
1849431	4597	5.42	55	125	60	301	109	78	100+
1849432	4597	5.42	55	125	60	301	109	78	100+
1849433	4597	5.42	55	125	60	301	109	78	100+
1849442	4597	5.54	54	134	55	333	111	65	100+
1849443	4597	5.54	54	134	55	333	111	65	100+
1849444	4597	5.54	54	134	55	333	111	65	100+
1849446	4597	5.88	61	145	64	324	103	72	100+
1849447	4597	5.88	61	145	64	324	103	72	100+
1849448	4597	5.88	61	145	64	324	103	72	100+
1849455	4597	5.53	54	150	69	342	100	78	100+
1849463	4597	5.56	56	131	57	324	109	82	100+
1849502	4597	5.48	56	137	61	314	112	72	100+
1849511	4597	5.32	58	135	65	354	94	56	100+
1849605	4597	5.42	52	143	64	344	111	61	100+
1849606	4597	5.42	52	143	64	344	111	61	100+
1849607	4597	5.42	52	143	64	344	111	61	100+
1849609	4597	5.42	53	140	58	294	108	61	100+
1849614	4597	5.50	56	134	58	306	90	77	100+
1849616	4597	5.50	56	134	58	306	90	77	100+

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

August 22, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 00955, dated August 4, 1995

Piece	Weight			120	50	250	75	45	70
Number	Style	Yd.2 Oz.	Thickness	Tensile	Along	Burst	Puncture	Trap Tear	A.O.S.
1849618	4597	5.56	57	141	64	283	103	66	100+
1849619	4597	5.56	57	141	64	283	103	66	100+
1849620	4597	5.56	57	141	64	283	103	66	100+
1849621	4597	5.51	57	140	62	314	98	68	100+
1849622	4597	5.51	57	140	62	314	98	68	100+
1849623	4597	5.51	57	140	62	314	98	68	100+
1849630	4597	5.38	60	145	64	316	82	86	100+
1849631	4597	5.38	60	145	64	316	82	86	100+
1849632	4597	5.38	60	145	64	316	82	86	100+
9521026	4597	5.50	55	136	63	318	94	61	100+
9521027	4597	5.38	54	128	59	289	104	61	100+
1848928	4597	5.25	59	131	63	317	112	56	100+
1848929	4597	5.25	59	131	63	317	112	56	100+
1848930	4597	5.25	59	131	63	317	112	56	100+
1848951	4597	5.17	56	121	74	299	91	69	100+
1848952	4597	5.17	56	121	74	299	91	69	100+
1848953	4597	5.17	56	121	74	299	91	69	100+
1848964	4597	5.27	55	129	63	290	100	51	100+
1848966	4597	5.27	55	129	63	290	100	51	100+
1848968	4597	5.09	62	124	79	323	111	55	100+
1848969	4597	5.09	62	124	79	323	111	55	100+
1849200	4597	5.28	56	127	73	300	103	65	100+
1849201	4597	5.28	56	127	73	300	103	65	100+
1849202	4597	5.28	56	127	73	300	103	65	100+
1849494	4597	5.57	56	133	60	326	113	59	100+

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BY AMOCO FABRICS COMPANY



Rich Bauer

Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

Carolyn

August 15, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # 01229, dated August 14, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll</u>	
		<u>Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	250	310
Puncture, lbs.	ASTM-D-4833 (Modi)	75	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, %* (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec 1)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell
Bennie J. Boutwell
Quality Assurance Manager
Amoco Fabrics and Fibers Company

mom

R 21/8/95
pu
OK



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

August 15, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 01229, dated August 14, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
				120	50	250 300	75 90	45	70
1870843	4597	6.33	78	158	80	368	134	82	100+
1870844	4597	6.33	78	158	80	368	134	82	100+
1870845	4597	6.33	78	158	80	368	134	82	100+
1871639	4597	5.94	71	144	76	325	99	62	100+
1871640	4597	5.94	71	144	76	325	99	62	100+
1871641	4597	5.94	71	144	76	325	99	62	100+
1871642	4597	5.67	63	127	80	332	102	76	100+
1871643	4597	5.67	63	127	80	332	102	76	100+
1871644	4597	5.67	63	127	80	332	102	76	100+
1871793	4597	6.08	70	142	72	296 ✓	128	63	100+
1871794	4597	6.08	70	142	72	296 ✓	128	63	100+
1871795	4597	6.08	70	142	72	296 ✓	128	63	100+
1871811	4597	6.26	71	144	77	337	117	63	100+
1871812	4597	6.26	71	144	77	337	117	63	100+
1871813	4597	6.26	71	144	77	337	117	63	100+
1871814	4597	6.07	71	142	76	378	116	61	100+
1871815	4597	6.07	71	142	76	378	116	61	100+
1871816	4597	6.07	71	142	76	378	116	61	100+
1871817	4597	5.49	75	182	80	386	112	71	100+
1871818	4597	5.49	75	182	80	386	112	71	100+
1871819	4597	5.49	75	182	80	386	112	71	100+
1871828	4597	6.58	82	155	81	370	118	69	100+
1871829	4597	6.58	82	155	81	370	118	69	100+
1871830	4597	6.58	82	155	81	370	118	69	100+
1870491	4597	6.60	64	156	79	334	114	82	100+
1870492	4597	6.60	64	156	79	334	114	82	100+
1870493	4597	6.60	64	156	79	334	114	82	100+
1870497	4597	4.88	51	132	80	312	104	64	100+
1870498	4597	4.88	51	132	80	312	104	64	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

August 15, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 01229, dated August 14, 1995

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear	A.O.S.
1870499	4597	4.88	51	132	80	312	104	64	100+	
1870538	4597	6.12	64	150	79	405	119	72	100+	
1870539	4597	6.12	64	150	79	405	119	72	100+	
1870540	4597	6.12	64	150	79	405	119	72	100+	
1870542	4597	6.10	65	154	86	326	124	90	100+	
1870543	4597	6.10	65	154	86	326	124	90	100+	
1870544	4597	6.10	65	154	86	326	124	90	100+	
1870569	4597	5.97	66	132	75	352	109	92	100+	
1870570	4597	5.97	66	132	75	352	109	92	100+	
1870571	4597	5.97	66	132	75	352	109	92	100+	
1870573	4597	6.13	65	147	79	348	113	83	100+	
1870574	4597	6.13	65	147	79	348	113	83	100+	
1870575	4597	6.13	65	147	79	348	113	83	100+	
1870597	4597	6.25	68	149	75	312	106	78	100+	
1870607	4597	6.02	63	148	76	377	117	75	100+	
1870608	4597	6.02	63	148	76	377	117	75	100+	
1870609	4597	6.02	63	148	76	377	117	75	100+	
1870612	4597	5.75	58	132	69	330	111	68	100+	
1870613	4597	5.75	58	132	69	330	111	68	100+	
1870614	4597	5.75	58	132	69	330	111	68	100+	
1870962	4597	6.40	80	141	80	374	119	78	100+	
1870963	4597	6.40	80	141	80	374	119	78	100+	
1870964	4597	6.40	80	141	80	374	119	78	100+	
1870965	4597	5.44	61	134	74	328	118	67	100+	
1870966	4597	5.44	61	134	74	328	118	67	100+	
1870967	4597	5.44	61	134	74	328	118	67	100+	
1870982	4597	5.44	61	130	89	284	109	56	100+	
1870983	4597	5.44	61	130	89	284	109	56	100+	
1870984	4597	5.44	61	130	89	284	109	56	100+	
1871002	4597	5.47	59	127	86	323	86	51	100+	

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

August 15, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 01229, dated August 14, 1995

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.2	Oz.							
1871003	4597	5.47	59	127	86	323	86	51	100+	
1871004	4597	5.47	59	127	86	323	86	51	100+	
1871008	4597	5.53	66	125	83	320	115	72	100+	
1871009	4597	5.53	66	125	83	320	115	72	100+	
1871010	4597	5.53	66	125	83	320	115	72	100+	
1871050	4597	5.32	59	125	86	311	94	66	100+	
1871051	4597	5.32	59	125	86	311	94	66	100+	
1871052	4597	5.32	59	125	86	311	94	66	100+	
1871053	4597	5.49	69	124	85	387	120	66	100+	
1871054	4597	5.49	69	124	85	387	120	66	100+	
1871055	4597	5.49	69	124	85	387	120	66	100+	
1871076	4597	5.57	66	132	77	313	108	68	100+	
1871077	4597	5.57	66	132	77	313	108	68	100+	
1871078	4597	5.57	66	132	77	313	108	68	100+	
1871085	4597	5.77	71	123	72	346	116	76	100+	
1871086	4597	5.77	71	123	72	346	116	76	100+	
1871087	4597	5.77	71	123	72	346	116	76	100+	
1871100	4597	5.16	58	130	63	317	107	57	100+	
1871101	4597	5.16	58	130	63	317	107	57	100+	
1871102	4597	5.16	58	130	63	317	107	57	100+	
1871108	4597	5.40	67	148	68	366	126	67	100+	
1871109	4597	5.40	67	148	68	366	126	67	100+	
1871110	4597	5.40	67	148	68	366	126	67	100+	
1871128	4597	5.14	58	129	70	332	122	55	100+	
1871129	4597	5.14	58	129	70	332	122	55	100+	
1871130	4597	5.14	58	129	70	332	122	55	100+	
1871154	4597	5.54	64	127	80	250	122	71	100+	
1871155	4597	5.54	64	127	80	250	122	71	100+	
1871156	4597	5.54	64	127	80	250	122	71	100+	
1871157	4597	5.98	71	139	81	359	118	77	100+	

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

August 15, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 01229, dated August 14, 1995

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
1871158	4597	5.98	71	139	81	359	118	77	100+	
1871159	4597	5.98	71	139	81	359	118	77	100+	
1871174	4597	5.28	58	123	73	316	95	48	100+	
1871175	4597	5.28	58	123	73	316	95	48	100+	
1871176	4597	5.28	58	123	73	316	95	48	100+	
1871217	4597	5.51	59	121	76	347	115	61	100+	
1871218	4597	5.51	59	121	76	347	115	61	100+	
1871219	4597	5.51	59	121	76	347	115	61	100+	
1871275	4597	6.24	73	143	75	352	119	72	100+	
1871276	4597	6.24	73	143	75	352	119	72	100+	
1871277	4597	6.24	73	143	75	352	119	72	100+	
1871278	4597	6.07	75	148	73	319	121	67	100+	
1871279	4597	6.07	75	148	73	319	121	67	100+	
1871280	4597	6.07	75	148	73	319	121	67	100+	
1871281	4597	5.26	61	122	85	298	101	48	100+	
1871282	4597	5.26	61	122	85	298	101	48	100+	
1871283	4597	5.26	61	122	85	298	101	48	100+	
1871288	4597	5.73	73	149	71	315	108	71	100+	
1871289	4597	5.73	73	149	71	315	108	71	100+	
1871290	4597	5.73	73	149	71	315	108	71	100+	
1871291	4597	5.91	68	145	75	343	111	70	100+	
1871292	4597	5.91	68	145	75	343	111	70	100+	
1871293	4597	5.91	68	145	75	343	111	70	100+	
1871297	4597	6.13	69	132	70	335	125	60	100+	
1871298	4597	6.13	69	132	70	335	125	60	100+	
1871299	4597	6.13	69	132	70	335	125	60	100+	
1871603	4597	5.76	64	124	78	311	103	62	100+	
1871604	4597	5.76	64	124	78	311	103	62	100+	
1871636	4597	6.24	66	141	80	278	103	64	100+	
1871637	4597	6.24	66	141	80	278	103	64	100+	

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

August 15, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 01229, dated August 14, 1995

Piece		Weight							
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1871638	4597	6.24	66	141	80	278	103	64	100+
1871645	4597	5.49	62	133	79	319	86	67	100+
1871646	4597	5.49	62	133	79	319	86	67	100+
1871647	4597	5.49	62	133	79	319	86	67	100+
1871672	4597	5.88	65	133	79	307	95	64	100+
1871673	4597	5.88	65	133	79	307	95	64	100+
1871674	4597	5.88	65	133	79	307	95	64	100+
1871675	4597	5.84	68	132	94	338	115	63	100+
1871676	4597	5.84	68	132	94	338	115	63	100+
1871677	4597	5.84	68	132	94	338	115	63	100+
1871678	4597	5.41	68	126	73	300	88	63	100+
1871679	4597	5.41	68	126	73	300	88	63	100+
1871680	4597	5.41	68	126	73	300	88	63	100+
1871681	4597	5.30	64	126	75	307	92	68	100+
1871682	4597	5.30	64	126	75	307	92	68	100+
1871683	4597	5.30	64	126	75	307	92	68	100+
1871719	4597	5.51	67	127	82	287	105	64	100+
1871720	4597	5.51	67	127	82	287	105	64	100+
1871721	4597	5.51	67	127	82	287	105	64	100+
1871722	4597	5.12	61	122	77	279	100	66	100+
1871723	4597	5.12	61	122	77	279	100	66	100+
1871724	4597	5.12	61	122	77	279	100	66	100+
1871725	4597	6.46	75	136	78	321	100	70	100+
1871726	4597	6.46	75	136	78	321	100	70	100+
1871727	4597	6.46	75	136	78	321	100	70	100+
1871736	4597	5.85	67	126	74	358	126	69	100+
1871737	4597	5.85	67	126	74	358	126	69	100+
1871738	4597	5.85	67	126	74	358	126	69	100+
1871742	4597	5.45	58	120	81	291	98	58	100+
1871743	4597	5.45	58	120	81	291	98	58	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

August 15, 1995

Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508010
Shipping # 01229, dated August 14, 1995

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear	A.O.S.
1871744	4597	5.45	58	120	81	291	98	58		100+
1871755	4597	5.54	65	125	85	290	90	65		100+
1871756	4597	5.54	65	125	85	290	90	65		100+
1871757	4597	5.54	65	125	85	290	90	65		100+
1871758	4597	6.35	69	131	80	349	108	65		100+
1871759	4597	6.35	69	131	80	349	108	65		100+
1871760	4597	6.35	69	131	80	349	108	65		100+

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BY AMOCO FABRICS COMPANY



Geosynthetics

August 23, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Gentlemen:

Attached is a Certificate of Analysis from the resin manufacturer, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10462N, lot numbers 3788-5-9 and 3792-5-9

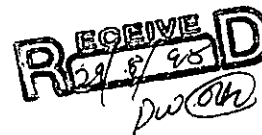
Resin from both Lot Numbers will be used in the future production of Enkanet Type 4215-102-0000 rolls for eventual shipment to the East Northport site. As has been customary in the past, all resin lot numbers will be noted on the Letter of Certification for finished rolls of Enkanet 4215-102-0000.

I certify that the test values for Melt Index and Density are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R37.nyc



Akzo Nobel Geosynthetics Company
Suite 318 Ridgfield Business Center
Ridgfield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5111
Telex (704) 665-5000

**Dow U.S.A.**

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

Post-it® Fax Note	7671	Date	8/14	# of pages	1
To	RICIE BOWEN	From	ED		
Co./Dept	ALCO NOBEL	Co.	G.P.N.C.		
Phone #		Phone #			
Fax #	704-665-5009	Fax #			

on

1-704-391-6826

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <8751752>

LOCATION	CHARLOTTE	NC	28230
DOW NO.	7411782		
CUST ORDER NO	010770		
CUST CODE			
SHIPPED	080495		
VIA	TRUCK		
ROUTE	CART		
TYPE	HDPE 10462N		
GROSS	43,559		
TARE	1,672		
NET	41,887		
LOTS	95052537889	95061137929	
PKG. LOT NO.	QP 3788-5-9	QP 3792-5-9	
MELT INDEX	9.58	10.93	
DENSITY	.9616	.9632	

THE ABOVE LOT(S) MEET THE DOW SALES SPECIFICATION
FOR THE TYPE INDICATED.

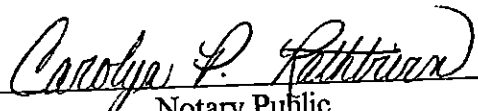
MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 25th day of August, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: 25 August 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5043
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Re: East Northport Project -- Amoco Style 4597 Laboratory Results & Certification Letters

Dear Steve:

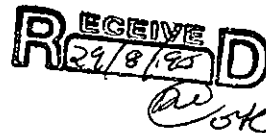
Attached are the laboratory results and Letters of Certification for Amoco Style 4597 shipped to us on August 4, 1995 under Shipping # O0955 and another order of Amoco Style 4597 shipped to us on August 14, 1995 under Shipping #O1229.

Product from these Shipping Numbers will be used to fabricate future rolls of Enkanet 4215-102-0000. You will be able to determine when either of the new Shipping Numbers of Amoco 4597 is being used on finished rolls of Enkanet 4215-102-0000 as all Akzo Nobel Letters of Certification list this information for every roll of Enkanet 4215-102-0000 shipped to your site.

Sincerely,

Rick Bowen

Brix-038.fax



Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Fax (704) 665-5099

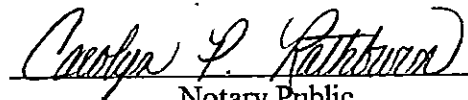
NORTH CAROLINA

BUNCOMBE COUNTY



I, **CAROLYN P. RATEBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 6th day of September, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: September 6, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 6

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50906001 dated 9/06/95. These letters cover rolls shipped from MLN 508261, 508271, 509021, and 509031. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-039.fax

AKZO Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telex: (704) 665 5009



Date: September 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508261
Manifest No.: 50906001

N. B. Kook
RECEIVED
R 9-7-95

ROLL(S) TESTED per MLN 508261

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50826901	0.411	28.4	78.5
50826905	0.403	27.5	78.3
50826912	0.400	27.0	78.3
50826913	0.412	27.9	77.5
50826916	0.396	27.7	77.5
Average	0.404	27.7	78.0
Max. Value	0.412	28.4	78.5
Min. Value	0.396	27.0	77.5
Std. Dev.	0.007	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50826911	5277	50826019	3792-5-9	10462N	O 0955	50825054	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-285nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex 7041 665-5009



Geosynthetics

Date: September 6, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508271
Manifest No.: 50906001

N. B. B. B.
RECEIVED
9-7-95

ROLL(S) TESTED per MLN 508271

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
TESTED	Inches	Total (oz/yd²)	Inches
50827903	0.403	27.5	78.3
50827909	0.400	27.3	78.0
50827915	0.401	27.9	77.8
50827918	0.395	28.6	78.0
Average	0.400	27.8	78.0
Max. Value	0.403	28.6	78.3
Min. Value	0.395	27.3	77.8
Std. Dev.	0.003	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50827901	5282	50826024	10462N	3792-5-9	O 0955	50825067	10462N	3792-5-9	O 1229
50827902	5282	50826025	10462N	3792-5-9	O 0955	50825060	10462N	3792-5-9	O 1229
50827904	5282	50826031	10462N	3792-5-9	O 0955	50825073	10462N	3792-5-9	O 1229
50827905	5282	50826034	10462N	3792-5-9	O 0955	50825070	10462N	3792-5-9	O 1229
50827906	5282	50826022	10462N	3792-5-9	O 0955	50825061	10462N	3792-5-9	O 1229
50827907	5282	50826035	10462N	3792-5-9	O 0955	50825071	10462N	3792-5-9	O 1229
50827908	5282	50826023	10462N	3792-5-9	O 0955	50825062	10462N	3792-5-9	O 1229
50827909	5282	50826026	10462N	3792-5-9	O 0955	50825063	10462N	3792-5-9	O 1229
50827910	5282	50826027	10462N	3792-5-9	O 0955	50825068	10462N	3792-5-9	O 1229
50827911	5282	50826028	10462N	3792-5-9	O 0955	50825069	10462N	3792-5-9	O 1229
50827912	5282	50826032	10462N	3792-5-9	O 0955	50825078	10462N	3792-5-9	O 1229
50827913	5282	50826029	10462N	3792-5-9	O 0955	50825079	10462N	3792-5-9	O 1229
50827914	5282	50826033	10462N	3792-5-9	O 0955	50825080	10462N	3792-5-9	O 1229
50827915	5282	50826041	10462N	3792-5-9	O 0955	50825081	10462N	3792-5-9	O 1229

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-284nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Date: September 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

N. B. B. K.
RECEIVED
R9-7-95

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509021
Manifest No.: 50906001

ROLL(S) TESTED per MLN 509021

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50902901	0.411	26.8	77.5
50902905	0.408	27.4	77.5
50902910 ✓	0.410	27.1	77.5
50902916 ✓	0.410	27.2	77.8
50902919 ✓	0.405	27.5	77.5
50902922 ✓	0.409	27.3	77.8
Average	0.409	27.2	77.6
Max. Value	0.411	27.5	77.8
Min. Value	0.405	26.8	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50902909	5277	50831023	10462N	3792-5-9	O 0955	50901030	10462N	3792-5-9	O 1229
50902910	5277	50831024	10462N	3792-5-9	O 0955	50901023	10462N	3792-5-9	O 1229
50902911	5277	50831028	10462N	3792-5-9	O 0955	50901024	10462N	3792-5-9	O 1229
50902912	5277	50831044	10462N	3792-5-9	O 0955	50901019	10462N	3792-5-9	O 1229
50902914	5277	50901002	10462N	3792-5-9	O 0955	50901032	10462N	3792-5-9	O 1229
50902915	5277	50901001	10462N	3792-5-9	O 0955	50901033	10462N	3792-5-9	O 1229
50902916	5277	50831013	10462N	3792-5-9	O 0955	50901031	10462N	3792-5-9	O 1229
50902917	5277	50831012	10462N	3792-5-9	O 0955	50901016	10462N	3792-5-9	O 1229
50902918	5277	50830014	10462N	3792-5-9	O 0955	50901014	10462N	3792-5-9	O 1229
50902919	5277	50831027	10462N	3792-5-9	O 0955	50901035	10462N	3792-5-9	O 1229
50902920	5277	50830009	10462N	3792-5-9	O 0955	50901012	10462N	3792-5-9	O 1229
50902921	5277	50831055	10462N	3792-5-9	O 0955	50901013	10462N	3792-5-9	O 1229
50902922	5277	50831052	10462N	3792-5-9	O 0955	50901011	10462N	3792-5-9	O 1229

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-283nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgfield Business Center
Ridgfield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: September 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509031
Manifest No.: 50906001

N. Brooks
RECEIVED
10-7-95

ROLL(S) TESTED per MLN 509031

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50903903	0.410	26.8	78.0
50903906	0.404	27.2	77.8
50903910	0.410	27.5	78.0
50903913	0.413	27.0	77.8
50903919	0.409	27.2	77.5
50903923	0.401	27.3	77.5
Average	0.408	27.2	77.8
Max. Value	0.413	27.5	78.0
Min. Value	0.401	26.8	77.5
Std. Dev.	0.004	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50903901	5282	50831041	10462N	3792-5-9	O 0955	50901008	10462N	3792-5-9	O 1229
50903902	5282	50831042	10462N	3792-5-9	O 0955	50829044	10462N	3792-5-9	O 1229
50903903	5282	50831048	10462N	3792-5-9	O 0955	50829045	10462N	3792-5-9	O 1229
50903905	5282	50831043	10462N	3792-5-9	O 0955	50829048	10462N	3792-5-9	O 1229
50903906	5282	50829012	10462N	4118-5-9	O 0955	50829049	10462N	3792-5-9	O 1229
50903907	5282	50829013	10462N	4118-5-9	O 0955	50829046	10462N	3792-5-9	O 1229
50903908	5282	50829004	10462N	4118-5-9	O 0955	50829050	10462N	3792-5-9	O 1229
50903909	5282	50828020	10462N	3792-5-9	O 0955	50829052	10462N	3792-5-9	O 1229
50903910	5282	50828023	10462N	3792-5-9	O 0955	50829053	10462N	3792-5-9	O 1229

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-282nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

N. Bowen
RECEIVED
SEP 11 1995

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 8th day of September, 1995.

Carolyn P. Rathburn

Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

N. B. Brix
RECEIVED
9-17-95

Date: September 8, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 11

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50908008 dated 9/07/95. These letters cover rolls shipped from MLN 508251, 508261, 508271, 508301, 508311, 509011, 509021, 509031 and 509041. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen
Rick Bowen

Brix-040.fax

AKZO Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5000
Fax (704) 665-5009



N. B. B. B. B.
RECEIVED
R-12-95

Date: September 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508251
Manifest No.: 50908008

ROLL(S) TESTED per MLN 508251

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50825902	0.400	28.0	77.5
Average	0.400	28.0	77.5
Max. Value	0.400	28.0	77.5
Min. Value	0.400	28.0	77.5
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50825903	5277	50723038	10462N	3590-5-9	E1395	50825048	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-296nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telex (704) 665 5009



Date: September 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508261
Manifest No.: 50908008

ROLL(S) TESTED per MLN 508261

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50826901	0.411	28.4	78.5
50826905	0.403	27.5	78.3
50826912 ✓	0.400	27.0	78.3
50826913	0.412	27.9	77.5
50826916	0.396	27.7	77.5
Average	0.404	27.7	78.0
Max. Value	0.412	28.4	78.5
Min. Value	0.396	27.0	77.5
Std. Dev.	0.007	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50826910	5277	50826018	3792-5-9	10462N	O 0955	50825057	10462N	3792-5-9	O 1229
50826912	5277	50826020	3792-5-9	10462N	O 0955	50825055	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-295nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Fax (704) 665-5049



Geosynthetics

Date: September 7, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508271
Manifest No.: 50908008

ROLL(S) TESTED per MLN 508271

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50827903 ✓	0.403	27.5	78.3
50827909	0.400	27.3	78.0
50827915	0.401	27.9	77.8
50827918	0.395	28.6	78.0
Average	0.400	27.8	78.0
Max. Value	0.403	28.6	78.3
Min. Value	0.395	27.3	77.8
Std. Dev.	0.003	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50827903	5282	50826030	10462N	3792-5-9	O 0955	50825072	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-297nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Ashville, NC 28802
Telephone: (704) 665-5051
Telex: 170 665-5051



Date: September 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508301
Manifest No.: 50908008

ROLL(S) TESTED per MLN 508301

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50830903	0.401	27.2	77.5
50830906	0.404	26.9	77.5
50830908	0.397	27.1	77.5
Average	0.401	27.1	77.5
Max. Value	0.404	27.2	77.5
Min. Value	0.397	26.9	77.5
Std. Dev.	0.004	0.2	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50830904	5282	50829063	10462N	3792-5-9	O 0955	50830027	10462N	3792-5-9	O 1229
50830906	5282	50827010	10462N	3792-5-9	O 0955	50830041	10462N	3792-5-9	O 1229
50830908	5282	50827012	10462N	3792-5-9	O 0955	50827036	10462N	3792-5-9	O 1229

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-294nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgfield Business Center
Ridgfield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Date: September 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508311
Manifest No.: 50908008

ROLL(S) TESTED per MLN 508311

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50831901 ✓	0.401	28.4	77.5
50831903 ✓	0.397	27.4	78.5
50831904 ✓	0.409	27.4	77.8
50831909 ✓	0.408	27.6	78.0
50831910	0.403	28.0	78.0
Average	0.404	27.8	78.0
Max. Value	0.409	28.4	77.5
Min. Value	0.397	27.4	77.5
Std. Dev.	0.005	0.4	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width		Source Rolls of Enkanet 4015					
Roll Number	Colback			Amoco					
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50831909	5282	50831037	10462N	3792-5-9	O 0955	50830065	10462N	3792-5-9	O 1229
50831910	5282	50830002	10462N	3792-5-9	O 0955	50830062	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-293nyc

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Telephone: 704/665-0500
Telex: 665500



Geosynthetics

Date: September 7, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509011
Manifest No.: 50908008

ROLL(S) TESTED per MLN 509011

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50901901	0.410	27.5	77.8
50901903	0.403	26.7	77.5
50901906	0.402	26.9	77.5
50901909	0.398	27.3	77.5
50901912	0.405	27.8	77.5
50901915	0.409	27.3	78.0
50901919	0.407	26.9	77.5
Average	0.405	27.2	77.6
Max. Value	0.410	27.8	78.0
Min. Value	0.398	26.7	77.5
Std. Dev.	0.004	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50901901	5282	50831047	10462N	3792-5-9	O 0955	50827040	10462N	3792-5-9	O 1229
50901902	5282	50826059	10462N	3792-5-9	O 0955	50830064	10462N	3792-5-9	O 1229
50901903	5282	50831032	10462N	3792-5-9	O 0955	50830059	10462N	3792-5-9	O 1229
50901904	5282	50831031	10462N	3792-5-9	O 0955	50830063	10462N	3792-5-9	O 1229
50901905	5282	50831035	10462N	3792-5-9	O 0955	50830060	10462N	3792-5-9	O 1229
50901906	5282	50831036	10462N	3792-5-9	O 0955	50901004	10462N	3792-5-9	O 1229

R.D. Bowen
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Telex 7041 665 5009



Date: September 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509021
Manifest No.: 50908008

ROLL(S) TESTED per MLN 509021

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50902901	0.411	26.8	77.5
50902905	0.408	27.4	77.5
50902910	0.410	27.1	77.5
50902916	0.410	27.2	77.8
50902919	0.405	27.5	77.5
50902922	0.409	27.3	77.8
Average	0.409	27.2	77.6
Max. Value	0.411	27.5	77.8
Min. Value	0.405	26.8	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50902908	5277	50831017	10462N	3792-5-9	O 0955	50901026	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
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Geosynthetics

Date: September 7, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509031
Manifest No.: 50908008

ROLL(S) TESTED per MLN 509031

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50903903	0.410	26.8	78.0
50903906	0.404	27.2	77.8
50903910	0.410	27.5	78.0
50903913	0.413	27.0	77.8
50903919	0.409	27.2	77.5
50903923 ✓	0.401	27.3	77.5
Average	0.408	27.2	77.8
Max. Value	0.413	27.5	78.0
Min. Value	0.401	26.8	77.5
Std. Dev.	0.004	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50903915	5282	50828032	10462N	3792-5-9	O 0955	50830036	10462N	3792-5-9	O 1229
50903916	5282	50828028	10462N	3792-5-9	O 0955	50830023	10462N	3792-5-9	O 1229
50903917	5282	50828033	10462N	3792-5-9	O 0955	50830028	10462N	3792-5-9	O 1229
50903919	5282	50828043	10462N	3792-5-9	O 0955	50830050	10462N	3792-5-9	O 1229
50903920	5282	50828044	10462N	3792-5-9	O 0955	50830056	10462N	3792-5-9	O 1229
50903921	5282	50829007	10462N	4118-5-9	O 0955	50830049	10462N	3792-5-9	O 1229
50903922	5282	50828048	10462N	3792-5-9	O 0955	50830026	10462N	3792-5-9	O 1229
50903923	5282	50829005	10462N	4118-5-9	O 0955	50830031	10462N	3792-5-9	O 1229

R.D. Bowen
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Date: September 7, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509041
Manifest No.: 50908008

ROLL(S) TESTED per MLN 509041

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50904902	0.407	26.7	77.5
50904905	0.408	27.4	77.8
50904910	0.404	26.1	77.8
50904913 ✓	0.417	27.1	78.0
50904918 ✓	0.408	28.0	77.5
50904922	0.397	26.7	78.0
50904925 ✓	0.405	27.6	78.0
Average	0.407	27.1	77.8
Max. Value	0.417	28.0	78.0
Min. Value	0.397	26.1	77.5
Std. Dev.	0.006	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50904911	5282	50831015	10462N	3792-5-9	O 0955	50830043	10462N	3792-5-9	O 1229
50904912	5282	50831014	10462N	3792-5-9	O 0955	50830033	10462N	3792-5-9	O 1229
50904913	5282	50831007	10462N	3792-5-9	O 0955	50830034	10462N	3792-5-9	O 1229
50904914	5282	50831006	10462N	3792-5-9	O 0955	50830037	10462N	3792-5-9	O 1229
50904916	5282	50828016	10462N	3792-5-9	O 0955	50830038	10462N	3792-5-9	O 1229
50904917	5282	50829011	10462N	4118-5-9	O 0955	50830045	10462N	3792-5-9	O 1229
50904918	5282	50828053	10462N	3792-5-9	O 0955	50830046	10462N	3792-5-9	O 1229
50904919	5282	50828054	10462N	3792-5-9	O 0955	50830053	10462N	3792-5-9	O 1229
50904920	5282	50829010	10462N	4118-5-9	O 0955	50830054	10462N	3792-5-9	O 1229
50904921	5282	50828017	10462N	3792-5-9	O 0955	50830052	10462N	3792-5-9	O 1229
50904924	5282	50828021	10462N	3792-5-9	O 0955	50827060	10462N	3792-5-9	O 1229
50904925	5282	50828035	10462N	3792-5-9	O 0955	50827049	10462N	3792-5-9	O 1229
50904926	5282	50828036	10462N	3792-5-9	O 0955	50827052	10462N	3792-5-9	O 1229


R.D. Bowen

Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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NORTH CAROLINA

BUNCOMBE COUNTY

N. B. Bogle
RECEIVED
R 9-15-95

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 13th day of September, 1995.

Carolyn P. Rathburn

Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: September 13, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50912016 dated 9/13/95. These letters cover rolls shipped from MLN 508261, 508291, 509011, 509031, 509041, 509051, and 509061. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-041.fax

AKZO NOBEL Geosynthetics Co.
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 1249
Asheville, NC 28802
(704) 665-5009
Fax: (704) 665-5009



Geosynthetics

Date: September 13, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508261
Manifest No.: 50912016

N. Books
RECEIVED
9-15-95

ROLL(S) TESTED per MLN 508261

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50826901	0.411	28.4	78.5
50826905	0.403	27.5	78.3
50826912	0.400	27.0	78.3
50826913 ✓	0.412	27.9	77.5
50826916 ✓	0.396	27.7	77.5
Average	0.404	27.7	78.0
Max. Value	0.412	28.4	78.5
Min. Value	0.396	27.0	77.5
Std. Dev.	0.007	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50826913	5277	50723051	3590-5-9	10462N	E 1395	50825052	10462N	3792-5-9	O 1229
50826916	5277	50723046	3590-5-9	10462N	E 1395	50825066	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Telefax (704) 665-5009



Geosynthetics

Date: September 13, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508291
Manifest No.: 50912016

ROLL(S) TESTED per MLN 508291

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50829903 ✓	0.400	27.6	77.5
Average	0.400	27.6	77.5
Max. Value	0.400	27.6	77.5
Min. Value	0.400	27.6	77.5
Std. Dev.	0.000	0.4	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50829903	5282	50721007	10462N	3590-5-9	K1490	50827024	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Date: September 13, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509011
Manifest No.: 50912016

ROLL(S) TESTED per MLN 509011

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50901901	0.410	27.5	77.8
50901903	0.403	26.7	77.5
50901906	0.402	26.9	77.5
50901909	0.398	27.3	77.5
50901912	0.405	27.8	77.5
50901915	0.409	27.3	78.0
50901919	0.407	26.9	77.5
Average	0.405	27.2	77.6
Max. Value	0.410	27.8	78.0
Min. Value	0.398	26.7	77.5
Std. Dev.	0.004	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50901908	5282	50831026	10462N	3792-5-9	O 0955	50901021	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

Date: September 13, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509031
Manifest No.: 50912016

ROLL(S) TESTED per MLN 509031

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50903903	0.410	26.8	78.0
50903906	0.404	27.2	77.8
50903910	0.410	27.5	78.0
50903913	0.413	27.0	77.8
50903919	0.409	27.2	77.5
50903923	0.401	27.3	77.5
Average	0.408	27.2	77.8
Max. Value	0.413	27.5	78.0
Min. Value	0.401	26.8	77.5
Std. Dev.	0.004	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50903911	5282	50828019	10462N	3792-5-9	O 0955	50829054	10462N	3792-5-9	O 1229
50903912	5282	50828024	10462N	3792-5-9	O 0955	50830017	10462N	3792-5-9	O 1229
50903913	5282	50831046	10462N	3792-5-9	O 0955	50830016	10462N	3792-5-9	O 1229
50903914	5282	50828031	10462N	3792-5-9	O 0955	50830035	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
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Fax: 201 665 5000



Date: September 13, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509041
Manifest No.: 50912016

ROLL(S) TESTED per MLN 509041

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50904902 ✓	0.407	26.7	77.5
50904905 ✓	0.408	27.4	77.8
50904910 ✓	0.404	26.1	77.8
50904913	0.417	27.1	78.0
50904918	0.408	28.0	77.5
50904922	0.397	26.7	78.0
50904925	0.405	27.6	78.0
Average	0.407	27.1	77.8
Max. Value	0.417	28.0	78.0
Min. Value	0.397	26.1	77.5
Std. Dev.	0.006	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50904901	5282	50829009	10462N	4118-5-9	O 0955	50830047	10462N	3792-5-9	O 1229
50904903	5282	50831008	10462N	3792-5-9	O 0955	50830039	10462N	3792-5-9	O 1229
50904904	5282	50831009	10462N	3792-5-9	O 0955	50830040	10462N	3792-5-9	O 1229
50904905	5282	50829008	10462N	4118-5-9	O 0955	50830018	10462N	3792-5-9	O 1229
50904906	5282	50831005	10462N	3792-5-9	O 0955	50830019	10462N	3792-5-9	O 1229
50904907	5282	50828037	10462N	3792-5-9	O 0955	50830020	10462N	3792-5-9	O 1229
50904908	5282	50828038	10462N	3792-5-9	O 0955	50830021	10462N	3792-5-9	O 1229
50904909	5282	50831011	10462N	3792-5-9	O 0955	50830030	10462N	3792-5-9	O 1229
50904910	5282	50829014	10462N	4118-5-9	O 0955	50830029	10462N	3792-5-9	O 1229
50904915	5282	50831004	10462N	3792-5-9	O 0955	50830044	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
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Date: September 13, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509051
Manifest No.: 50912016

ROLL(S) TESTED per MLN 509051

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50905902 ✓	0.401	27.0	77.8
50905906 ✓	0.403	27.6	78.0
50905910 ✓	0.404	26.9	77.8
50905914 ✓	0.406	27.4	77.5
50905917	0.408	27.5	77.5
50905920	0.399	26.7	77.8
Average	0.404	27.2	77.7
Max. Value	0.408	27.6	78.0
Min. Value	0.399	26.7	77.5
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50905901	5287	50828039	10462N	3792-5-9	O 0955	50827051	10462N	3792-5-9	O 1229
50905902	5287	50828040	10462N	3792-5-9	O 0955	50827055	10462N	3792-5-9	O 1229
50905903	5287	50828029	10462N	3792-5-9	O 0955	50827056	10462N	3792-5-9	O 1229
50905905	5287	50827015	10462N	3792-5-9	O 0955	50827057	10462N	3792-5-9	O 1229
50905906	5287	50828042	10462N	3792-5-9	O 0955	50827058	10462N	3792-5-9	O 1229
50905908	5287	50828045	10462N	3792-5-9	O 0955	50827067	10462N	3792-5-9	O 1229
50905909	5287	50828046	10462N	3792-5-9	O 0955	50827068	10462N	3792-5-9	O 1229
50905910	5287	50828049	10462N	3792-5-9	O 0955	50827061	10462N	3792-5-9	O 1229
50905911	5287	50828050	10462N	3792-5-9	O 0955	50827062	10462N	3792-5-9	O 1229
50905912	5277	50931003	10462N	3792-5-9	O 0955	50827063	10462N	3792-5-9	O 1229
50905913	5277	50831002	10462N	3792-5-9	O 0955	50827064	10462N	3792-5-9	O 1229
50905914	5277	50828025	10462N	3792-5-9	O 0955	50828004	10462N	3792-5-9	O 1229
50905915	5277	50828026	10462N	3792-5-9	O 0955	50828009	10462N	3792-5-9	O 1229
50905916	5277	50830015	10462N	3792-5-9	O 0955	50828010	10462N	3792-5-9	O 1229

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-305nyc

Akzo Nobel Geosynthetics Company
Suite 518, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28302
Phone: 704 365 5050
Fax: 704 365 5009



Geosynthetics

Date: September 13, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509061
Manifest No.: 50912016

ROLL(S) TESTED per MLN 509061

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50906901 ✓	0.409	27.2	77.8
50906902 ✓	0.408	26.8	78.0
50906904 ✓	0.415	27.3	78.0
50906905 ✓	0.409	27.5	78.0
Average	0.410	27.2	78.0
Max. Value	0.415	27.5	78.0
Min. Value	0.408	26.8	77.8
Std. Dev.	0.003	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50906901	5361	50828052	10462N	3792-5-9	O 0955	50828002	10462N	3792-5-9	O 1229
50906902	5361	50828060	10462N	3792-5-9	O 0955	50828013	10462N	3792-5-9	O 1229
50906903	5361	50828051	10462N	3792-5-9	O 0955	50827065	10462N	3792-5-9	O 1229
50906904	5361	50828062	10462N	3792-5-9	O 0955	50827066	10462N	3792-5-9	O 1229
50906905	5361	50828061	10462N	3792-5-9	O 0955	50828005	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-306nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5000
Fax (704) 665-1000

N. D. Brook
RECEIVED
19-14-93



Geosynthetics

ENKANET™
ENKANET 4215 SPECIFICATIONS
 East Northport Landfill Closure, Huntington, NY

STANDARD Product DIMENSIONS and WEIGHTS

- ◆ **THICKNESS with FABRIC (inches) Typical** 0.4
- ◆ **Total WEIGHT (oz/yd²) Typical** 25.5
- ◆ **Core WEIGHT (oz/yd²) Typical** 17.0
- ◆ **Core WIDTH (inches)** 78
- ◆ **Roll LENGTH (feet)** 320
- ◆ **Gross Roll Weight (lbs)** 378
- ◆ **Area per ROLL (yd²)** 231
- ◆ **Core POLYMER:** High Density Polyethylene, 0.5% by wt. of Carbon Black

HYDRAULIC TRANSMISSIVITY m²/sec ASTM D4716 [SEE CURVES ON REVERSE SIDE]

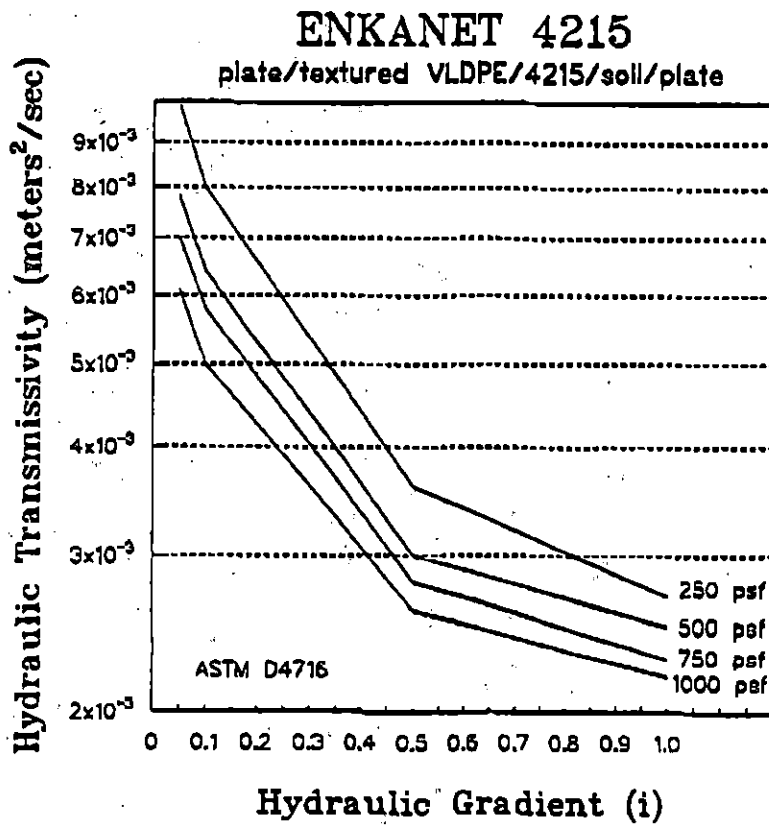
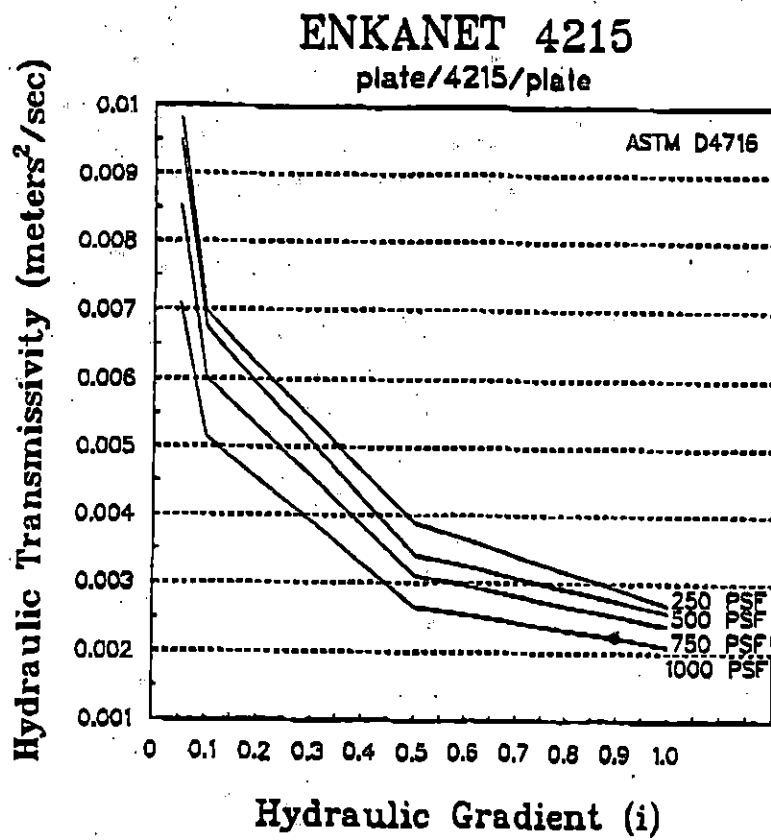
GEOTEXTILE FABRIC PROPERTIES	PROCEDURE	FML side MARV[*]	SOIL side MARV[*]
WEIGHT (oz/yd ²)	ASTM D3776	4.0	3.2
GRAB STRENGTH (lbs)	ASTM D4632	120	125
GRAB ELONGATION (%)	ASTM D4632	50	38
TRAPEZOIDAL TEAR (lbs)	ASTM D4533	45	38
PUNCTURE RESISTANCE (lbs)	ASTM D4833	75	30
MULLEN BURST (psi)	ASTM D3786	250	130
AOS (US series, sieve # or mm)	ASTM D4751	70 (#)	0.190 (mm)
FLOW RATE (gpm/ft ²)	ASTM D4491	75	—
PERMITTIVITY (sec ⁻¹)	ASTM D4491	1.4	2.1
FABRIC POLYMER		Polypropylene	PA6 & PET
FABRIC COLOR		Black	Gray

^{*}MARV - Minimum Average Roll Value which represents the industry standard 95% confidence level

^{**}MARV recommended by Geosynetics as per letter of 4 May 1993

EN4215-6.INT
 3/3/93

Akzo Nobel Geosynthetics Company
 Suite 318, Ridgeland Business Center
 Ridgeland, GA 30276
 P.O. Box 7249
 Asheville, NC 28901
 Telephone (704) 665-5600





Geosynthetics

September 14, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for Amoco Style 4597 used on Enkanet 4215-102-0000, East
North Project

Gentlemen:

Attached are the laboratory results and Letter of Certification for Amoco Style 4597
shipped to us on September 5, 1995 under Shipping # Q0903.

Product from this Shipping Number will be used to fabricate future rolls of Enkanet 4215-
102-0000. You will be able to determine when geotextile from Shipping #Q0903 has been
used in the fabrication of finished rolls of Enkanet 4215-102-0000 as all Akzo Nobel
Letters of Certification list the specific Amoco 4597 Shipping # for every roll of Enkanet
4215-102-0000 shipped to your site.

We certify that the test values for Amoco Style 4597 are accurate to the best of our
knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R39.nyc



Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Ash Grove, NC 28802
Tel: (919) 665-5050
Telex: (919) 665-5009



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 6, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508035

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # Q0903, dated September 5, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll</u>	
		<u>Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	250	310
Puncture, lbs.	ASTM-D-4833 (Modi)	75	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, ** (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec l)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell
Quality Assurance Manager
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 6, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508035
Shipping # Q0903, dated September 5, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1849094	4597	5.04	51	140	59	282	104	68	100+
1849095	4597	5.04	51	140	59	282	104	68	100+
1849099	4597	5.03	49	138	61	296	106	56	100+
11385	4597	5.28	55	120	66	268	82	66	100+
11431	4597	6.58	73	167	74	378	131	76	100+
1881432	4597	6.58	73	167	74	378	131	76	100+
1881433	4597	6.58	73	167	74	378	131	76	100+
1881434	4597	6.58	73	167	74	378	131	76	100+
1881476	4597	6.54	75	145	71	392	137	76	100+
1881477	4597	6.54	75	145	71	392	137	76	100+
1881478	4597	6.54	75	145	71	392	137	76	100+
1881479	4597	6.54	75	145	71	392	137	76	100+
1881480	4597	6.09	72	139	65	394	125	79	100+
1881481	4597	6.09	72	139	65	394	125	79	100+
1881482	4597	6.09	72	139	65	394	125	79	100+
1881483	4597	6.09	72	139	65	394	125	79	100+
1881484	4597	5.98	68	145	67	345	129	66	100+
1881485	4597	5.98	68	145	67	345	129	66	100+
1881486	4597	5.98	68	145	67	345	129	66	100+
1881487	4597	5.98	68	145	67	345	129	66	100+
1881492	4597	5.90	69	142	76	344	128	76	100+
1881493	4597	5.90	69	142	76	344	128	76	100+
1881495	4597	5.90	69	142	76	344	128	76	100+
1881521	4597	5.28	62	132	71	314	107	59	100+
1881522	4597	5.28	62	132	71	314	107	59	100+
1881523	4597	5.28	62	132	71	314	107	59	100+
1881578	4597	5.23	59	141	67	331	110	62	100+
1881579	4597	5.23	59	141	67	331	110	62	100+
1881580	4597	5.23	59	141	67	331	110	62	100+
1881581	4597	5.23	59	141	67	331	110	62	100+

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BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 6, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508035
Shipping # Q0903, dated September 5, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1848956	4597	5.23	61	126	64	359	117	59	100+
1848991	4597	5.67	63	136	70	308	122	58	100+
1848992	4597	5.67	63	136	70	308	122	58	100+
1848993	4597	5.67	63	136	70	308	122	58	100+
1848994	4597	5.07	63	135	71	340	114	71	100+
1848995	4597	5.07	63	135	71	340	114	71	100+
1848996	4597	5.07	63	135	71	340	114	71	100+
1849001	4597	5.40	59	127	68	341	106	60	100+
1849002	4597	5.40	59	127	68	341	106	60	100+
1849057	4597	5.66	65	120	69	344	129	78	100+
1849058	4597	5.66	65	120	69	344	129	78	100+
1849060	4597	4.89	57	125	67	293	110	50	100+
1849061	4597	4.89	57	125	67	293	110	50	100+
1849062	4597	4.89	57	125	67	293	110	50	100+
1849063	4597	5.16	56	124	70	325	121	50	100+
1849065	4597	5.16	56	124	70	325	121	50	100+
1849066	4597	5.35	57	131	62	281	103	62	100+
1849067	4597	5.35	57	131	62	281	103	62	100+
1849068	4597	5.35	57	131	62	281	103	62	100+
1849078	4597	5.55	60	146	68	327	122	57	100+
1849079	4597	5.55	60	146	68	327	122	57	100+
1849082	4597	5.38	54	148	59	320	113	60	100+
1849083	4597	5.38	54	148	59	320	113	60	100+
1849086	4597	5.32	54	147	62	310	101	62	100+
1849087	4597	5.32	54	147	62	310	101	62	100+
1849088	4597	5.32	54	147	62	310	101	62	100+
1849090	4597	5.18	53	144	61	347	113	67	100+
1849092	4597	5.18	53	144	61	347	113	67	100+
1849093	4597	5.04	51	140	59	282	104	68	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 6, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508035
Shipping # Q0903, dated September 5, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1881596	4597	5.59	61	150	67	295	99	66	100+
1881597	4597	5.59	61	150	67	295	99	66	100+
598	4597	5.59	61	150	67	295	99	66	100+
1612	4597	5.98	62	145	61	358	121	80	100+
1881613	4597	5.98	62	145	61	358	121	80	100+
1881614	4597	5.98	62	145	61	358	121	80	100+
1881640	4597	5.69	59	149	61	366	118	72	100+
1881641	4597	5.69	59	149	61	366	118	72	100+
1881642	4597	5.69	59	149	61	366	118	72	100+
1881643	4597	5.73	63	155	64	375	102	74	100+
1881644	4597	5.73	63	155	64	375	102	74	100+
1881645	4597	5.73	63	155	64	375	102	74	100+
1881646	4597	5.46	57	147	54	382	136	69	100+
1881647	4597	5.46	57	147	54	382	136	69	100+
1881648	4597	5.46	57	147	54	382	136	69	100+
1881663	4597	5.57	59	161	66	360	124	69	100+
1881664	4597	5.57	59	161	66	360	124	69	100+
1881665	4597	5.57	59	161	66	360	124	69	100+
1881677	4597	5.48	60	139	71	339	124	82	100+
1881678	4597	5.48	60	139	71	339	124	82	100+
1881679	4597	5.48	60	139	71	339	124	82	100+
1881706	4597	5.57	57	140	64	319	110	66	100+
1881707	4597	5.57	57	140	64	319	110	66	100+
1881708	4597	5.57	57	140	64	319	110	66	100+
1881710	4597	5.38	58	157	62	367	95	64	100+
1881711	4597	5.38	58	157	62	367	95	64	100+
1881712	4597	5.38	58	157	62	367	95	64	100+
1881737	4597	5.49	62	156	61	367	95	69	100+
1881738	4597	5.49	62	156	61	367	95	69	100+
1881739	4597	5.49	62	156	61	367	95	69	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 6, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508035
Shipping # Q0903, dated September 5, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1881740	4597	5.75	59	147	69	367	95	61	100+
1881741	4597	5.75	59	147	69	367	95	61	100+
1881742	4597	5.75	59	147	69	367	95	61	100+
181743	4597	5.51	59	145	70	298	103	72	100+
31744	4597	5.51	59	145	70	298	103	72	100+
1881745	4597	5.51	59	145	70	298	103	72	100+
1881794	4597	5.54	65	142	61	356	121	63	100+
1881795	4597	5.54	65	142	61	356	121	63	100+
1881796	4597	5.54	65	142	61	356	121	63	100+
1881797	4597	5.62	65	144	80	325	112	86	100+
1881798	4597	5.62	65	144	80	325	112	86	100+
1881799	4597	5.62	65	144	80	325	112	86	100+
1881805	4597	5.92	70	151	76	394	133	78	100+
1881806	4597	5.92	70	151	76	394	133	78	100+
1881842	4597	5.57	63	140	65	325	120	73	100+
1881843	4597	5.57	63	140	65	325	120	73	100+
1881860	4597	6.28	73	168	63	392	114	90	100+
1881966	4597	6.82	73	202	70	443	137	100	100+
1881985	4597	6.14	66	161	68	364	107	86	100+
1881987	4597	6.14	66	161	68	364	107	86	100+
1882083	4597	5.67	63	139	65	312	97	70	100+
1882349	4597	5.63	61	163	76	339	105	88	100+
1882350	4597	5.63	61	163	76	339	105	88	100+
1882351	4597	5.63	61	163	76	339	105	88	100+
1882353	4597	5.29	59	153	76	374	109	71	100+
1882354	4597	5.29	59	153	76	374	109	71	100+
1882355	4597	5.29	59	153	76	374	109	71	100+
1882374	4597	5.62	62	133	67	286	94	63	100+
1882375	4597	5.62	62	133	67	286	94	63	100+
1882376	4597	5.62	62	133	67	286	94	63	100+

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Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 6, 1995

Akzo Geosynthetic Company
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-508035
Shipping # Q0903, dated September 5, 1995

Piece		Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.2 Oz.								
1882378	4597	5.45	55	140	61	309	91	81	100+	
1882379	4597	5.45	55	140	61	309	91	81	100+	
1882380	4597	5.45	55	140	61	309	91	81	100+	
1882381	4597	5.60	60	144	64	317	139	81	100+	
1882382	4597	5.60	60	144	64	317	139	81	100+	
1882383	4597	5.60	60	144	64	317	139	81	100+	
1882385	4597	5.63	61	150	66	320	102	65	100+	
1882386	4597	5.63	61	150	66	320	102	65	100+	
1882387	4597	5.63	61	150	66	320	102	65	100+	
1848965	4597	5.27	55	129	63	290	100	51	100+	
1848970	4597	5.09	62	124	79	323	111	55	100+	
1848971	4597	5.18	54	127	66	298	105	55	100+	
1848972	4597	5.18	54	127	66	298	105	55	100+	
1848973	4597	5.18	54	127	66	298	105	55	100+	
1881530	4597	5.23	59	139	67	351	105	62	100+	
1881531	4597	5.23	59	139	67	351	105	62	100+	
1881532	4597	5.23	59	139	67	351	105	62	100+	
1881533	4597	5.23	59	139	67	351	105	62	100+	
1881548	4597	5.35	63	152	67	369	123	77	100+	
1881549	4597	5.35	63	152	67	369	123	77	100+	
1881550	4597	5.35	63	152	67	369	123	77	100+	
1881551	4597	5.35	63	152	67	369	123	77	100+	

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BY AMOCO FABRICS COMPANY



Geosynthetics

September 14, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport
Project

Gentlemen:

Attached is a Certificate of Analysis from the resin manufacturer, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10462N, lot numbers 4118-5-9 and 4261-5-9

Resin from both Lot Numbers will be used in the production of Enkanet Type 4215-102-0000 rolls destined for shipment to the East Northport site. As has been customary in the past, all resin lot numbers will be noted on the Letter of Certification for finished rolls of Enkanet 4215-102-0000.

I certify that the test values for Melt Index and Density are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R38.nyc



Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Fax (704) 665-5009

**Dow U.S.A.**The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

AUGUST 25, 1995

From: DOW CHEMICAL - Louisiana Division

To: GAIL SMITH

1-704-391-6826

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <8751752>

LOCATION	CHARLOTTE	NC	28230
DOW NO.	7447626		
CUST ORDER NO	010090		
CUST CODE			
SHIPPED	082595		
VIA	TRUCK		
ROUTE	CART		
TYPE	HDPE 10462N		
GROSS	43,559		
TARE	1,672		
NET	41,887		
LOTS	95082442619		
PKG. LOT NO.	QP 4261-5-9		
MELT INDEX	10.70		
DENSITY	.9631		

THE ABOVE LOT(S) MEET THE DOW SALES SPECIFICATION
FOR THE TYPE INDICATED.MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA

**Dow U.S.A.**

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

AUGUST 29, 1995

From: DOW CHEMICAL - Louisiana Division

To: CAMMY MILLER

1-704-391-6827

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <8751752>

LOCATION	CHARLOTTE	NC	28230
DOW NO.	7447628		
CUST ORDER NO	010089		
CUST CODE			
SHIPPED	082995		
VIA	TRUCK		
ROUTE	CART/		
TYPE	HDPE 10462N		
GROSS	43,559		
TARE	1,672		
NET	41,887		
LOTS	95072541189		
PKG. LOT NO.	QP 4118-5-9		
MELT INDEX	10.24		
DENSITY	.9628		

THE ABOVE LOT(S) MEET THE DOW SALES SPECIFICATION
FOR THE TYPE INDICATED.

MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA



Geosynthetics

MEMORANDUM

Date: September 14, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

Re: East Northport Project -- Letters of Certification

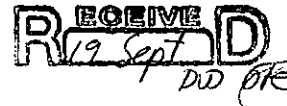
Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50914002 dated 9/14/95. These letters cover rolls shipped from MLN 509021, 509041, 509051, 509061, 509101, and 509111. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-042.fax



Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665-5050
Teletax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 14th day of September, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: September 14, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509021
Manifest No.: 50914002

ROLL(S) TESTED per MLN 509021

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50902901 /	0.411	26.8	77.5
50902905-	0.408	27.4	77.5
50902910	0.410	27.1	77.5
50902916	0.410	27.2	77.8
50902919	0.405	27.5	77.5
50902922	0.409	27.3	77.8
Average	0.409	27.2	77.6
Max. Value	0.411	27.5	77.8
Min. Value	0.405	26.8	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50902901	5277	50831050	10462N	3792-5-9	O 0955	50827048	10462N	3792-5-9	O 1229
50902902	5277	50831051	10462N	3792-5-9	O 0955	50901018	10462N	3792-5-9	O 1229
50902903	5277	50830003	10462N	3792-5-9	O 0955	50827044	10462N	3792-5-9	O 1229
50902904	5277	50831029	10462N	3792-5-9	O 0955	50901036	10462N	3792-5-9	O 1229
50902905	5277	50831021	10462N	3792-5-9	O 0955	50901037	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-313nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P O Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Teletax (704) 665-5009



Date: September 14, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509041
Manifest No.: 50914002

ROLL(S) TESTED per MLN 509041

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50904902	0.407	26.7	77.5
50904905	0.408	27.4	77.8
50904910	0.404	26.1	77.8
50904913	0.417	27.1	78.0
50904918	0.408	28.0	77.5
50904922	0.397	26.7	78.0
50904925	0.405	27.6	78.0
Average	0.407	27.1	77.8
Max. Value	0.417	28.0	78.0
Min. Value	0.397	26.1	77.5
Std. Dev.	0.006	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50904902	5282	50829006	10462N	4118-5-9	O 0955	50830048	10462N	3792-5-9	O 1229
50904923	5282	50828022	10462N	3792-5-9	O 0955	50827050	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-312.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Phone (704) 565-5211
Fax (704) 565-5000



Date: September 14, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509051
Manifest No.: 50914002

ROLL(S) TESTED per MLN 509051

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50905902	0.401	27.0	77.8
50905906	0.403	27.6	78.0
50905910	0.404	26.9	77.8
50905914	0.406	27.4	77.5
50905917	0.408	27.5	77.5
50905920	0.399	26.7	77.8
Average	0.404	27.2	77.7
Max. Value	0.408	27.6	78.0
Min. Value	0.399	26.7	77.5
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015					
Roll Number	Colback				Amoco					Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50905918	5277	50829002	10462N	4118-5-9	O 0955	50829015	10462N	3792-5-9	O 1229	
50905920	5277	50828063	10462N	3792-5-9	O 0955	50829017	10462N	3792-5-9	O 1229	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-311nyc

Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telex: 170 665 5009



Geosynthetics

Date: September 14, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509061
Manifest No.: 50914002

ROLL(S) TESTED per MLN 509061

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50906901	0.409	27.2	77.8
50906902	0.408	26.8	78.0
50906904	0.415	27.3	78.0
50906905	0.409	27.5	78.0
Average	0.410	27.2	78.0
Max. Value	0.415	27.5	78.0
Min. Value	0.408	26.8	77.8
Std. Dev.	0.003	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50906906	5361	50828064	10462N	3792-5-9	O 0955	50829020	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-310nyc

Akzo Nobel Geosynthetics Company
Suite 218 Ridgfield Business Center
Ridgfield Court
P.O. Box 7249
Akron, Ohio 44302
Tel: (216) 366-5000
Fax: (216) 366-5000



Date: September 14, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509101
Manifest No.: 50914002

ROLL(S) TESTED per MLN 509101

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50910903 ✓	0.405	27.4	78.0
50910908 ✓	0.407	28.1	77.8
50910911	0.415	28.3	77.8
Average	0.409	27.9	77.9
Max. Value	0.415	28.3	78.0
Min. Value	0.405	27.4	77.8
Std. Dev.	0.005	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50910901	5357	50828064	10462N	3792-5-9	O 0955	50829020	10462N	3792-5-9	0 1229
50910902	5357	50828065	10462N	3792-5-9	O 0955	50829025	10462N	3792-5-9	0 1229
50910903	5357	50909008	10462N	3792-5-9	O 0955	50829026	10462N	3792-5-9	0 1229
50910904	5357	50909002	10462N	3792-5-9	O 0955	50827059	10462N	3792-5-9	0 1229
50910905	5357	50909001	10462N	3792-5-9	O 0955	50829019	10462N	3792-5-9	0 1229
50910906	5357	50909004	10462N	3792-5-9	O 0955	50829029	10462N	3792-5-9	0 1229
50910907	5357	50909007	10462N	3792-5-9	O 0955	50829030	10462N	3792-5-9	0 1229
50910908	5357	50910003	10462N	3792-5-9	O 0955	50829023	10462N	3792-5-9	0 1229
50910909	5357	50910004	10462N	3792-5-9	O 0955	50829024	10462N	3792-5-9	0 1229
50910910	5357	50910007	10462N	3792-5-9	O 0955	50828011	10462N	3792-5-9	0 1229
50910911	5357	50910008	10462N	3792-5-9	O 0955	50910026	10462N	3792-5-9	0 1229
50910912	5357	50910001	10462N	3792-5-9	O 0955	50910021	10462N	3792-5-9	0 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-309nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: 704/665-5050
Fax: 704/665-5009



Geosynthetics

Date: September 14, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509111
Manifest No.: 50914002

ROLL(S) TESTED per MLN 509111

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50911902	0.397	27.9	78.0
50911906	0.403	27.3	77.5
50911909	0.404	27.6	78.0
50911911	0.406	27.2	77.5
50911914	0.409	27.7	78.0
50911917	0.406	27.0	77.8
Average	0.404	27.5	77.8
Max. Value	0.409	27.9	78.0
Min. Value	0.397	27.0	77.5
Std. Dev.	0.004	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015					
Roll Number	Colback				Amoco					Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50911901	5357	50910002	10462N	3792-5-9	O 0955	50910023	10462N	3792-5-9	O 1229	
50911903	5357	50909005	10462N	3792-5-9	O 0955	50910024	10462N	3792-5-9	O 1229	
50911904	5357	50828057	10462N	3792-5-9	O 0955	50910025	10462N	3792-5-9	O 1229	
50911906	5357	50830001	10462N	3792-5-9	O 0955	50827041	10462N	3792-5-9	O 1229	
50911907	5357	50910006	10462N	3792-5-9	O 0955	50829028	10462N	3792-5-9	O 1229	
50911908	5357	50909003	10462N	3792-5-9	O 0955	50828001	10462N	3792-5-9	O 1229	
50911909	5357	50910012	10462N	3792-5-9	O 0955	50829027	10462N	3792-5-9	O 1229	
50911911	5361	50910011	10462N	3792-5-9	O 0955	50829032	10462N	3792-5-9	O 1229	
50911912	5361	50910010	10462N	3792-5-9	O 0955	50829034	10462N	3792-5-9	O 1229	
50911913	5361	50910015	10462N	3792-5-9	O 0955	50910029	10462N	3792-5-9	O 1229	
50911914	5361	50909006	10462N	3792-5-9	O 0955	50910028	10462N	3792-5-9	O 1229	
50911915	5361	50910013	10462N	3792-5-9	O 0955	50910032	10462N	3792-5-9	O 1229	
50911916	5361	50910014	10462N	3792-5-9	O 0955	50910031	10462N	3792-5-9	O 1229	
50911917	5361	50910019	10462N	3792-5-9	O 0955	50910036	10462N	3792-5-9	O 1229	
50911918	5361	50910020	10462N	3792-5-9	O 0955	50910035	10462N	3792-5-9	O 1229	

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-308nyc

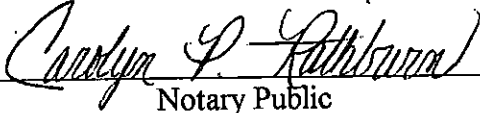
Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Ashville, NC 28802
Telephone (704) 655-5050
Telex (704) 655-1000

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 20th day of September, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: September 20, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

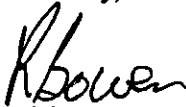
Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50920005 dated 9/20/95. These letters cover rolls shipped from MLN 509131, 509141, 509151, 509161, and 509171. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-043.fax



Akzo Nobel Geosynthetics Company
Suite 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665 5009



Date: September 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509131
Manifest No.: 50920005

ROLL(S) TESTED per MLN 509131

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50913902	0.401	27.8	78.0
50913905	0.397	27.2	78.0
50913910	0.404	27.9	78.0
50913914	0.402	27.3	78.0
50913916	0.409	28.2	78.0
50913919	0.405	27.9	77.8
Average	0.403	27.7	78.0
Max. Value	0.409	28.2	78.0
Min. Value	0.397	27.2	77.8
Std. Dev.	0.004	0.4	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50913904	5282	50911034	10462N	3792-5-9	O 0955	50912005	10462N	3792-5-9	O 1229
50913905	5282	50911029	10462N	3792-5-9	O 0955	50912004	10462N	3792-5-9	O 1229
50913908	5282	50911033	10462N	3792-5-9	O 0955	50912050	10462N	3792-5-9	O 1229
50913910	5361	50911038	10462N	3792-5-9	O 0955	50910050	10462N	3792-5-9	O 1229
50913911	5361	50911039	10462N	3792-5-9	O 0955	50912047	10462N	3792-5-9	O 1229
50913912	5361	50913014	10462N	4118-5-9	O 0955	50912048	10462N	3792-5-9	O 1229
50913914	5361	50913005	10462N	4118-5-9	O 0955	50912035	10462N	4118-5-9	O 1229
50913917	5361	50913010	10462N	4118-5-9	O 0955	50829021	10462N	3792-5-9	O 1229
50913923	5354	50913004	10462N	4118-5-9	O 0955	50912011	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-323nyc

Akzo Nobel Geosynthetics Company
Suite 518, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Ashe, NC 28502
Telephone (704) 665-5050
Telex 1704166F 3100



Date: September 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509141
Manifest No.: 50920005

ROLL(S) TESTED per MLN 509141

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50914902	0.406	28.2	77.5
50914903	0.408	27.4	78.0
50914907	0.405	28.2	78.5
50914912	0.407	28.6	77.5
50914915	0.410	28.3	77.8
50914918	0.407	28.5	78.0
Average	0.407	28.2	77.9
Max. Value	0.410	28.6	78.5
Min. Value	0.405	27.4	77.5
Std. Dev.	0.002	0.4	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50914902	5354	50913018	10462N	4118-5-9	O 0955	50914011	10462N	4261-5-9	O 1229
50914904	5354	50911042	10462N	3792-5-9	O 0955	50911007	10462N	3792-5-9	O 1229
50914905	5354	50913017	10462N	4118-5-9	O 0955	50911006	10462N	3792-5-9	O 1229
50914906	5354	50913031	10462N	4118-5-9	O 0955	50914022	10462N	4261-5-9	O 1229
50914907	5354	50913032	10462N	4118-5-9	O 0955	50914021	10462N	4261-5-9	O 1229
50914909	5354	50913030	10462N	4118-5-9	O 0955	50914018	10462N	4261-5-9	O 1229
50914919	5354	50913036	10462N	4118-5-9	O 0955	50912043	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
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Geosynthetics

Date: September 20, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509151
Manifest No.: 50920005

ROLL(S) TESTED per MLN 509151

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50915902	0.403	27.1	77.5
50915903	0.403	27.7	78.0
50915911	0.407	27.9	77.8
50915912	0.411	28.3	77.5
Average	0.406	27.8	77.7
Max. Value	0.411	28.3	78.0
Min. Value	0.403	27.1	77.8
Std. Dev.	0.004	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50915901	5354	50913037	10462N	4118-5-9	O 0955	50912014	10462N	3792-5-9	O 1229
50915902	5354	50913043	10462N	4118-5-9	O 0955	50912015	10462N	3792-5-9	O 1229
50915903	5354	50913044	10462N	4118-5-9	O 0955	50914014	10462N	4261-5-9	O 1229
50915904	5354	50913039	10462N	4118-5-9	O 0955	50912040	10462N	3792-5-9	O 1229
50915905	5354	50913041	10462N	4118-5-9	O 0955	50912042	10462N	3792-5-9	O 1229
50915906	5362	50913042	10462N	4118-5-9	O 0955	50913001	10462N	4118-5-9	O 1229
50915908	5362	50914001	10462N	4118-5-9	O 0955	50912045	10462N	3792-5-9	O 1229
50915911	5362	50914004	10462N	4118-5-9	O 0955	50914023	10462N	4261-5-9	O 1229
50915912	5362	50914005	10462N	4118-5-9	O 0955	50914024	10462N	4261-5-9	O 1229

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Geosynthetics

Date: September 20, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509161
Manifest No.: 50920005

ROLL(S) TESTED per MLN 509161

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50916902	0.406	28.3	77.5
50916905	0.406	28.6	77.5
50916908	0.411	28.4	77.5
50916911	0.406	27.6	77.5
50916914	0.403	28.2	78.0
Average	0.406	28.2	77.6
Max. Value	0.411	28.6	78.0
Min. Value	0.403	27.6	77.5
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50916901	5354	50913038	10462N	4118-5-9	O 0955	50914019	10462N	4261-5-9	O 1229
50916902	5354	50914006	10462N	4118-5-9	O 0955	50914020	10462N	4261-5-9	O 1229
50916905	5354	50915005	10462N	3792-5-9	O 0955	50914026	10462N	4261-5-9	O 1229
50916906	5354	50915006	10462N	3792-5-9	O 0955	50916012	10462N	3792-5-9	O 1229
50916915	5354	50915017	10462N	3792-5-9	O 0955	50914029	10462N	4261-5-9	O 1229

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Date: September 20, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509171
Manifest No.: 50920005

ROLL(S) TESTED per MLN 509171

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50917903	0.410	28.2	77.5
50917908	0.409	28.2	77.5
50917913	0.404	28.1	77.8
50917918	0.405	28.4	77.5
50917922	0.404	28.6	78.0
50917927	0.410	28.0	77.8
Average	0.407	28.3	77.7
Max. Value	0.410	28.6	78.0
Min. Value	0.404	28.0	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50917902	5354	50915019	10462N	3792-5-9	O 0955	50914030	10262N	4261-5-9	O 1229
50917903	5354	50915020	10462N	3792-5-9	O 0955	50914035	10262N	4261-5-9	O 1229
50917904	5354	50915025	10462N	3792-5-9	O 0955	50914036	10262N	4261-5-9	O 1229
50917905	5354	50915026	10462N	3792-5-9	O 0955	50914033	10262N	4261-5-9	O 1229
50917906	5354	50915023	10462N	3792-5-9	O 0955	50914034	10262N	4261-5-9	O 1229
50917907	5354	50915024	10462N	3792-5-9	O 0955	50914039	10262N	4261-5-9	O 1229
50917908	5354	50915029	10462N	3792-5-9	O 0955	50914040	10262N	4261-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
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Geosynthetics

September 20, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for Percentage by Weight of CARBON BLACK used in Production of Enkanet
4215-102-0000, East Northport Project

Gentlemen:

Listed below is an updated accounting by date of the actual percentages by weight of Carbon Black used in the continuous production of core for Enkanet 4215-102-0000:

<u>Date</u>	<u>% by Weight of Carbon Black in Production Run</u>
June 3-20	0.91 to 1.00
June 30-July 6	0.60 to 0.80
July 18-29	1.00 to 1.10
August 24-31	1.00 to 1.10
September 9-18	1.00 to 1.10

I certify that percentages by weight of Carbon Black listed above are accurate to the best of my knowledge as given to me by our production department, and were calculated from actual production records of raw materials used.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R40.nyc

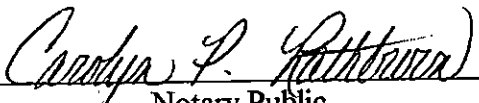
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NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 21st day of September, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: September 21, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Letters of Certification

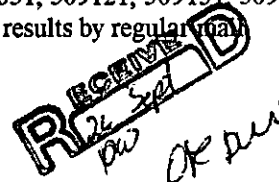
Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50920012 dated 9/20/95. These letters cover rolls shipped from MLN 509051, 509121, 509131, 509141, 509151, 509161, and 509171. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-044.fax



AKZO NOBEL Geosynthetics Company
P.O. Box 318 Ridgefield Business Center
Ridgefield Court
P.O. Box 2249
Asheville, NC 28802
(704) 665-5000
(704) 665-5041



Geosynthetics

Date: September 21, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509051
Manifest No.: 50920012

ROLL(S) TESTED per MLN 509051

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50905902	0.401	27.0	77.8
50905906	0.403	27.6	78.0
50905910	0.404	26.9	77.8
50905914	0.406	27.4	77.5
50905917	0.408	27.5	77.5
50905920	0.399	26.7	77.8
Average	0.404	27.2	77.7
Max. Value	0.408	27.6	78.0
Min. Value	0.399	26.7	77.5
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50905917	5277	50829003	10462N	4118-5-9	O 0955	50828003	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Geosynthetics

Date: September 21, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509121
Manifest No.: 50920012

ROLL(S) TESTED per MLN 509121

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50912902	0.413	27.8	78.0
50912905	0.402	27.4	77.8
50912910	0.406	27.2	78.0
50912915	0.402	26.9	77.8
50912918	0.402	28.1	78.0
50912921	0.408	28.0	77.8
Average	0.406	27.6	77.9
Max. Value	0.413	28.1	78.0
Min. Value	0.402	26.9	77.8
Std. Dev.	0.005	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50912918	5354	50911027	10462N	3792-5-9	O 0955	50910052	10462N	3792-5-9	O 1229
50912919	5354	50911022	10462N	3792-5-9	O 0955	50912038	10462N	3792-5-9	O 1229
50912920	5282	50911023	10462N	3792-5-9	O 0955	50910053	10462N	3792-5-9	O 1229
50912921	5282	50911024	10462N	3792-5-9	O 0955	50910054	10462N	3792-5-9	O 1229

R.D. Bowen
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Geosynthetics

Date: September 21, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509131
Manifest No.: 50920012

ROLL(S) TESTED per MLN 509131

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50913902	0.401	27.8	78.0
50913905	0.397	27.2	78.0
50913910	0.404	27.9	78.0
50913914	0.402	27.3	78.0
50913916	0.409	28.2	78.0
50913919	0.405	27.9	77.8
Average	0.403	27.7	78.0
Max. Value	0.409	28.2	78.0
Min. Value	0.397	27.2	77.8
Std. Dev.	0.004	0.4	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215

Single Width Source Rolls of Enkanet 4015

Roll Number Colback		Amoco			Amoco			Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50913901	5282	50911025	10462N	3792-5-9	O 0955	50912007	10462N	3792-5-9	O 1229
50913902	5282	50911030	10462N	3792-5-9	O 0955	50912037	10462N	4118-5-9	O 1229
50913903	5282	50911031	10462N	3792-5-9	O 0955	50912036	10462N	4118-5-9	O 1229
50913906	5282	50911028	10462N	3792-5-9	O 0955	50910055	10462N	3792-5-9	O 1229
50913907	5282	50911032	10462N	3792-5-9	O 0955	50912049	10462N	3792-5-9	O 1229
50913913	5361	50913015	10462N	4118-5-9	O 0955	50911001	10462N	3792-5-9	O 1229
50913915	5361	50913006	10462N	4118-5-9	O 0955	50912031	10462N	4118-5-9	O 1229
50913916	5361	50911037	10462N	3792-5-9	O 0955	50911002	10462N	3792-5-9	O 1229
50913918	5361	50911036	10462N	3792-5-9	O 0955	50911003	10462N	3792-5-9	O 1229
50913919	5354	50913011	10462N	4118-5-9	O 0955	50911008	10462N	3792-5-9	O 1229
50913920	5354	50913007	10462N	4118-5-9	O 0955	50912012	10462N	3792-5-9	O 1229
50913921	5354	50913008	10462N	4118-5-9	O 0955	50912010	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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fax 615 665 5009



Geosynthetics

Date: September 21, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509141
Manifest No.: 50920012

ROLL(S) TESTED per MLN 509141

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50914902	0.406	28.2	77.5
50914903	0.408	27.4	78.0
50914907	0.405	28.2	78.5
50914912	0.407	28.6	77.5
50914915	0.410	28.3	77.8
50914918	0.407	28.5	78.0
Average	0.407	28.2	77.9
Max. Value	0.410	28.6	78.5
Min. Value	0.405	27.4	77.5
Std. Dev.	0.002	0.4	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50914901	5354	50911043	10462N	3792-5-9	O 0955	50912016	10462N	3792-5-9	O 1229
50914903	5354	50911016	10462N	3792-5-9	O 0955	50914012	10462N	4261-5-9	O 1229
50914910	5354	50913026	10462N	4118-5-9	O 0955	50914013	10462N	4261-5-9	O 1229
50914911	5354	50913012	10462N	4118-5-9	O 0955	50914015	10462N	4261-5-9	O 1229
50914912	5354	50913016	10462N	4118-5-9	O 0955	50914016	10462N	4261-5-9	O 1229
50914913	5354	50913033	10462N	4118-5-9	O 0955	50912017	10462N	3792-5-9	O 1229
50914914	5354	50912033	10462N	4118-5-9	O 1229	50914007	10462N	4261-5-9	O 1229
50914915	5354	50913034	10462N	4118-5-9	O 0955	50914008	10462N	4261-5-9	O 1229
50914916	5354	50913027	10462N	4118-5-9	O 0955	50914009	10462N	4261-5-9	O 1229
50914917	5354	50913028	10462N	4118-5-9	O 0955	50914010	10462N	4261-5-9	O 1229
50914918	5354	50913035	10462N	4118-5-9	O 0955	50912041	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
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Date: September 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509151
Manifest No.: 50920012

ROLL(S) TESTED per MLN 509151

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50915902	0.403	27.1	77.5
50915903	0.403	27.7	78.0
50915911	0.407	27.9	77.8
50915912	0.411	28.3	77.5
Average	0.406	27.8	77.7
Max. Value	0.411	28.3	78.0
Min. Value	0.403	27.1	77.8
Std. Dev.	0.004	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50915909	5362	50913047	10462N	4118-5-9	O 0955	50912044	10462N	3792-5-9	O 1229

R.D. Bowen
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Date: September 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509161
Manifest No.: 50920012

ROLL(S) TESTED per MLN 509161

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50916902	0.406	28.3	77.5
50916905	0.406	28.6	77.5
50916908	0.411	28.4	77.5
50916911	0.406	27.6	77.5
50916914	0.403	28.2	78.0
Average	0.406	28.2	77.6
Max. Value	0.411	28.6	78.0
Min. Value	0.403	27.6	77.5
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015					
Roll Number	Colback				Amoco					Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50916914	5354	50915003	10462N	3792-5-9	O 0955	50916009	10462N	3792-5-9	O 1229	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-325nyc

Akzo Nobel Geosynthetics Company
Suite 310 Ridgefield Business Center
Ridgefield Conn
P.O. Box 1249
Ridgefield, NC 28801
Phone: 704/281-5050
Fax: 704/281-5009



Date: September 21, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509171
Manifest No.: 50920012

ROLL(S) TESTED per MLN 509171

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50917903	0.410	28.2	77.5
50917908	0.409	28.2	77.5
50917913	0.404	28.1	77.8
50917918	0.405	28.4	77.5
50917922	0.404	28.6	78.0
50917927	0.410	28.0	77.8
Average	0.407	28.3	77.7
Max. Value	0.410	28.6	78.0
Min. Value	0.404	28.0	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50917910	5354	50915030	10462N	3792-5-9	O 0955	50914037	10262N	4261-5-9	O 1229
50917916	5361	50915038	10462N	3792-5-9	O 0955	50914046	10262N	4261-5-9	O 1229
50917917	5361	50915037	10462N	3792-5-9	O 0955	50914051	10262N	4261-5-9	O 1229
50917918	5361	50915036	10462N	3792-5-9	O 0955	50914052	10262N	4261-5-9	O 1229
50917919	5361	50915035	10462N	3792-5-9	O 0955	50914049	10262N	4261-5-9	O 1229
50917920	5361	50915042	10462N	3792-5-9	O 0955	50914047	10262N	4261-5-9	O 1229
50917921	5361	50915041	10462N	3792-5-9	O 0955	50914050	10262N	4261-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-324nyc

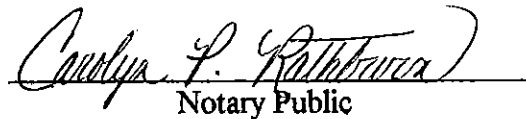
Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5050

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 22nd day of September, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: September 22, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 98

Re: East Northport Project -- Letters of Certification

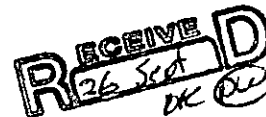
Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50922001 dated 9/22/95. These letters cover rolls shipped from MLN 508261, 509031, 509111, 509121, 509161, and 509171. You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-045.fax



Akzo Nobel Geosynthetics Company
318 Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Tel: (704) 665 5050
Fax: (704) 665 5009



Date: September 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508261
Manifest No.: 50922001

ROLL(S) TESTED per MLN 508261

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50826901 ✓	0.411	28.4	78.5
50826905	0.403	27.5	78.3
50826912	0.400	27.0	78.3
50826913 ✗	0.412	27.9	77.5
50826916	0.396	27.7	77.5
Average	0.404	27.7	78.0
Max. Value	0.412	28.4	78.5
Min. Value	0.396	27.0	77.5
Std. Dev.	0.007	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50826901	5277	50723057	3590-5-9	10462N	E 1395	50825046	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-338nyc

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Ridgely, MD 21077
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Ashcroft, NC 28902
Phone: (410) 565-5000
Fax: (410) 565-5009



Date: September 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509031
Manifest No.: 50922001

ROLL(S) TESTED per MLN 509031

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50903903	0.410	26.8	78.0
50903906	0.404	27.2	77.8
50903910	0.410	27.5	78.0
50903913	0.413	27.0	77.8
50903919	0.409	27.2	77.5
50903923	0.401	27.3	77.5
Average	0.408	27.2	77.8
Max. Value	0.413	27.5	78.0
Min. Value	0.401	26.8	77.5
Std. Dev.	0.004	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50903924	5282	50827047	10462N	3792-5-9	O 0955	50830032	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-337nyc

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Telex (704) 565-5000



Date: September 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509111
Manifest No.: 50922001

ROLL(S) TESTED per MLN 509111

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50911902	0.397	27.9	78.0
50911906	0.403	27.3	77.5
50911909	0.404	27.6	78.0
50911911	0.406	27.2	77.5
50911914	0.409	27.7	78.0
50911917	0.406	27.0	77.8
Average	0.404	27.5	77.8
Max. Value	0.409	27.9	78.0
Min. Value	0.397	27.0	77.5
Std. Dev.	0.004	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50911919	5354	50911010	10462N	3792-5-9	O 0955	50910034	10462N	3792-5-9	O 1229
50911920	5354	50911009	10462N	3792-5-9	O 0955	50910033	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-336nyc

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Asheville, NC 28802
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Fax: 704.665.5000



Date: September 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509121
Manifest No.: 50922001

ROLL(S) TESTED per MLN 509121

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50912902 ✓	0.413	27.8	78.0
50912905 ✓	0.402	27.4	77.8
50912910 ✓	0.406	27.2	78.0
50912915 ✓	0.402	26.9	77.8
50912918	0.402	28.1	78.0
50912921	0.408	28.0	77.8
Average	0.406	27.6	77.9
Max. Value	0.413	28.1	78.0
Min. Value	0.402	26.9	77.8
Std. Dev.	0.005	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50912902	5354	50911013	10462N	3792-5-9	O 0955	50910043	10462N	3792-5-9	O 1229
50912903	5354	50910017	10462N	3792-5-9	O 0955	50910044	10462N	3792-5-9	O 1229
50912904	5354	50831019	10462N	3792-5-9	O 0955	50910046	10462N	3792-5-9	O 1229
50912905	5354	50912001	10462N	3792-5-9	O 0955	50910041	10462N	3792-5-9	O 1229
50912906	5354	50912002	10462N	3792-5-9	O 0955	50910042	10462N	3792-5-9	O 1229
50912907	5354	50912003	10462N	3792-5-9	O 0955	50910045	10462N	3792-5-9	O 1229
50912908	5354	50910018	10462N	3792-5-9	O 0955	50912009	10462N	3792-5-9	O 1229
50912909	5354	50911011	10462N	3792-5-9	O 0955	50829022	10462N	3792-5-9	O 1229
50912910	5354	50911041	10462N	3792-5-9	O 0955	50829031	10462N	3792-5-9	O 1229
50912911	5354	50831016	10462N	3792-5-9	O 0955	50910040	10462N	3792-5-9	O 1229
50912912	5354	50911040	10462N	3792-5-9	O 0955	50910047	10462N	3792-5-9	O 1229
50912913	5354	50911014	10462N	3792-5-9	O 0955	50910037	10462N	3792-5-9	O 1229
50912914	5354	50911020	10462N	3792-5-9	O 0955	50912006	10462N	3792-5-9	O 1229
50912915	5354	50911021	10462N	3792-5-9	O 0955	50912008	10462N	3792-5-9	O 1229
50912916	5354	50910005	10462N	3792-5-9	O 0955	50910049	10462N	3792-5-9	O 1229
50912917	5354	50911026	10462N	3792-5-9	O 0955	50910051	10462N	3792-5-9	O 1229


R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

cert-335.nyc

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Ridgely Court
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Asheville, NC 28902
Telephone 704-555-5050
Telex 117456 5009



Date: September 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509161
Manifest No.: 50922001

ROLL(S) TESTED per MLN 509161

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50916902	0.406	28.3	77.5
50916905	0.406	28.6	77.5
50916908 ✓	0.411	28.4	77.5
50916911 ✓	0.406	27.6	77.5
50916914	0.403	28.2	78.0
Average	0.406	28.2	77.6
Max. Value	0.411	28.6	78.0
Min. Value	0.403	27.6	77.5
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50916907	5354	50914002	10462N	4118-5-9	O 0955	50916013	10462N	3792-5-9	O 1229
50916908	5354	50915016	10462N	3792-5-9	O 0955	50914031	10462N	4261-5-9	O 1229
50916909	5354	50915015	10462N	3792-5-9	O 0955	50916007	10462N	3792-5-9	O 1229
50916910	5354	50915011	10462N	3792-5-9	O 0955	50914027	10462N	4261-5-9	O 1229
50916911	5354	50915013	10462N	3792-5-9	O 0955	50912045	10462N	3792-5-9	O 1229
50916913	5354	50914003	10462N	4118-5-9	O 0955	50911005	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-335nyc

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Telefax (704) 665-5009



Date: September 22, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509171
Manifest No.: 50922001

ROLL(S) TESTED per MLN 509171

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50917903	0.410	28.2	77.5
50917908	0.409	28.2	77.5
50917913 ✓	0.404	28.1	77.8
50917918	0.405	28.4	77.5
50917922 ✓	0.404	28.6	78.0
50917927 ✓	0.410	28.0	77.8
Average	0.407	28.3	77.7
Max. Value	0.410	28.6	78.0
Min. Value	0.404	28.0	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50917909	5354	50915021	10462N	3792-5-9	O 0955	50914038	10262N	4261-5-9	O 1229
50917913	5354	50915032	10462N	3792-5-9	O 0955	50914041	10262N	4261-5-9	O 1229
50917914	5354	50915033	10462N	3792-5-9	O 0955	50914042	10262N	4261-5-9	O 1229
50917915	5361	50915034	10462N	3792-5-9	O 0955	50914045	10262N	4261-5-9	O 1229
50917922	5361	50915040	10462N	3792-5-9	O 0955	50914054	10262N	4261-5-9	O 1229
50917923	5361	50915039	10462N	3792-5-9	O 0955	50914053	10262N	4261-5-9	O 1229
50917924	5357	50915028	10462N	3792-5-9	O 0955	50914048	10262N	4261-5-9	O 1229
50917925	5357	50915045	10462N	3792-5-9	O 0955	50914055	10262N	4261-5-9	O 1229
50917926	5357	50915027	10462N	3792-5-9	O 0955	50914056	10262N	4261-5-9	O 1229
50917927	5357	50915044	10462N	3792-5-9	O 0955	50916008	10262N	3792-5-9	O 1229
50917928	5357	50828015	10462N	3792-5-9	O 0955	50914059	10262N	4261-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-333nyc

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Phone (704) 665-5050
Fax (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 22nd day of September, 1995.



Notary Public

My Commission Expires May 7, 2000.



September 22, 1995

Geosynthetics

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Laboratory Conformance Results for Colback Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Attached please find the laboratory conformance results conducted on Colback ND120 by GeoSyntec Consultants, Boca Raton, Florida.

These lots (#5287, 5282, 5313) meet the revised Minimum Roll Average Values project specifications for the nonwoven, heat-bonded geotextile recommended by Mr. Cargill in his letter dated May 4, 1995 addressed to Mr. Gladysz of Cashin Associates, P.C.

These lots will be used for current and future production of finished rolls of Enkanet 4215-102-0000. Please note that all Letters of Certification from Akzo Nobel include the Colback lot # that was used for each finished roll of Enkanet 4215-102-0000 shipped to the project site.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-339.nyc

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GEO SYNTEC CONSULTANTS

Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.

CONTACT: Mr. Rick Bowen

GEO SYNTEC JOB NO.: FLQ5881

CLIENT ID:

Colback ND120/LOT # 5287

DATE TESTED:

09/06/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
119.8	116.0	117.3	114.9	117.9	114.2	116.5	119.5	116.8	117.8
3.5	3.4	3.5	3.4	3.5	3.4	3.4	3.5	3.4	3.5
0.52	0.53	0.53	0.51	0.52	0.51	0.53	0.53	0.52	0.51
20.5	20.9	20.9	20.1	20.5	20.1	20.9	20.9	20.5	20.1
155.7	147.2	164.5	145.8	141.6	161.8	157.4	156.4	154.7	150.4
152.5	147.0	152.7	148.3	146.9	160.5	150.5	140.0	146.6	153.7
60.5	62.3	95.8	88.5	69.9	93.7	84.6	60.1	79.8	83.2
67.7	66.4	67.0	78.2	62.5	75.3	70.2	69.7	69.9	66.8
46.8	48.2	47.3	51.5	48.5	51.1	54.0	45.8	54.2	49.5
49.7	45.7	43.5	48.1	60.4	49.5	51.6	43.7	60.5	48.8
195	188	176	201	194	190	185	179	197	190
44.5	53.7	51.8	45.7	46.9	52.2	41.6	53.8	50.7	53.8
0.381	0.351	0.360	0.352	0.361					
40	40	40	40	40					
2.778	2.725	2.830	2.775						
204.6	200.6	208.4	204.3						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ²	117.1	1.79		
	oz/yd ²	3.5	0.05		
THICKNESS (ASTM D1777)	mm	0.52	0.009		
	mil	20.5	0.34		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		153.6	7.23		
XD		149.9	5.48		
GRAB ELONGATION (ASTM D4632)	%				
RD		77.8	13.69		
XD		69.4	4.54		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		49.7	2.95		
XD		50.2	6.02		
MULLEN BURST STRENGTH* (ASTM D3786)	psi	190	7.8		
PUNCTURE STRENGTH (ASTM D4833)	lb	49.5	4.44		
APPARENT OPENING SIZE (ASTM D4751)	mm	0.357	0.0060		
	sieve no.**	40	N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	2.777	0.0429		
FLOW RATE (ASTM D4491)	gal/min ft ²	204.5	3.19		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* TARE VALUE NOT SUBTRACTED FROM MULLEN BURST READINGS.

** THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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**GEOSYNTec CONSULTANTS**

Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
 CONTACT: Mr. Rick Bowen
 GEOSYNTec JOB NO.: FLQ5881

CLIENT ID: Colback ND120/LOT # 5282
 DATE TESTED: 09/14/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
116.5	122.9	116.4	122.1	115.5	117.3	117.0	120.2	118.8	117.7
3.4	3.6	3.4	3.6	3.4	3.5	3.4	3.5	3.5	3.5
0.50	0.50	0.53	0.52	0.51	0.53	0.53	0.52	0.54	0.55
19.7	19.7	20.9	20.5	20.1	20.9	20.9	20.5	21.3	21.7
137.7	144.2	167.5	170.7	174.0	171.5	169.9	182.0	161.9	172.3
165.9	136.9	152.2	154.6	154.6	157.8	160.3	147.4	151.4	157.8
62.8	64.8	86.7	89.6	85.6	83.6	92.9	94.0	80.6	86.7
92.5	77.1	83.7	87.0	87.7	83.7	86.9	82.6	88.8	86.7
45.9	50.6	50.9	50.1	52.2	49.0	49.8	47.3	53.3	49.9
52.2	49.0	54.9	53.0	52.5	49.3	50.9	48.3	52.3	48.3
144	170	140	150	162	140	148	168	178	166
45.9	46.1	49.2	51.9	52.9	49.7	45.1	48.0	49.2	45.6
0.261	0.274	0.267	0.284	0.254					
50	50	50	50	50					
3.008	3.034	2.958	3.017						
221.5	223.4	217.8	222.2						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D9776)	g/m ²	118.4	2.51		
	oz/yd ²	3.5	0.07		
THICKNESS (ASTM D1777)	mm	0.52	0.016		
	mil	20.6	0.64		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		165.2	13.81		
XD		153.9	7.87		
GRAB ELONGATION (ASTM D4632)	%				
RD		82.7	10.76		
XD		85.7	4.16		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		49.9	2.16		
XD		51.1	2.26		
MULLEN BURST STRENGTH* (ASTM D3786)	psi	157	13.8		
PUNCTURE STRENGTH (ASTM D4833)	lb	48.4	2.71		
APPARENT OPENING SIZE (ASTM D4751)	mm	0.268	0.0118		
	sieve no.**	50	N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	3.004	0.0327		
FLOW RATE (ASTM D4491)	gal/min ft ²	221.2	2.41		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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GEOSYNTEC CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Alcoa Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTEC JOB NO.: FLQ3891

CLIENT ID: Colbeck ND120 / LOT # 5313
DATE TESTED: 09/14/95

INDIVIDUAL SPECIMENS										SUBSIDIARY RESULTS				
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC. PASS/FAIL
119.2	117.4	118.7	120.6	118.5	123.2	119.9	128.9	120.6	122.8	MASS PER UNIT AREA (ASTM D3776)	g/m ²	120.8	3.54	
3.5	3.5	3.5	3.6	3.4	3.6	3.5	3.8	3.6	3.8		oz/yd ²	3.6	0.10	
0.56	0.57	0.53	0.54	0.52	0.57	0.56	0.52	0.53	0.56	THICKNESS (ASTM D1777)	mm	0.54	0.019	
21.7	22.4	20.9	21.3	20.5	22.4	22.0	20.5	20.9	21.7		mil	21.4	0.75	
										GRAB TENSILE STRENGTH (ASTM D4632)	lb			
159.5	168.3	145.0	152.2	145.0	161.9	185.2	204.6	188.8	187.6	RD		187.6	19.45	
190.9	188.5	165.1	183.6	172.3	152.2	134.5	171.5	166.7	180.4	XD		170.6	17.28	
										GRAB ELONGATION (ASTM D4632)	%			
55.6	51.8	57.3	60.8	45.3	48.9	51.8	61.8	58.7	54.7	RD		54.7	5.27	
71.3	65.5	57.4	63.7	63.8	49.2	48.0	56.2	58.6	66.8	XD		60.0	7.48	
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb			
53.3	51.7	59.3	57.7	60.1	55.7	57.7	54.1	55.6	56.4	RD		56.2	2.85	
52.2	51.2	60.3	58.3	50.1	46.9	56.1	61.1	55.6	59.5	XD		55.1	4.83	
										MULLEN BURST STRENGTH* (ASTM D3786)	psi			
218	220	238	232	190	219	204	212	195	208			214	15.1	
52.0	61.0	64.8	73.1	45.8	62.5	52.0	55.6	51.8	56.9	PUNCTURE STRENGTH (ASTM D4833)	lb			
										APPARENT OPENING SIZE (ASTM D4751)	mm	0.298	0.0377	
0.266	0.273	0.272	0.345	0.332							sieve no.**	50	N/A	
50	50	50	40	40						CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	3.085	0.0157	
3.062	3.098	3.090	3.089							FLOW RATE (ASTM D4491)	gal/min ft ²	227.1	1.13	
225.5	228.1	227.5	227.4											

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* TARE VALUE NOT SUBTRACTED FROM MULLEN BURST READINGS.

** THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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Geosynthetics

MEMORANDUM

Date: September 27, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 8

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 50926001 dated 9/27/95. These letters cover rolls shipped from MLN 508261, 508311, 509011, 509171, 509181, and 509191. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-046.fax

1 RECEIVED
Ry Oct 95
BW

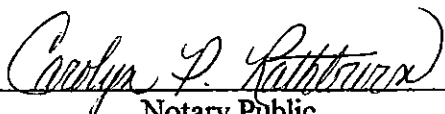
AKZO NOBEL Geosynthetic Company
Suite 518 Ridgefield Business Center
Ridgefield Court
P.O. Box 7749
Asheville, NC 28802
Telephone: (704) 665-5000
Fax: (704) 665-5012

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 27th day of September, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

Date: September 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508261
Manifest No.: 50926001

ROLL(S) TESTED per MLN 508261

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50826901	0.411	28.4	78.5
50826905	0.403	27.5	78.3
50826912	0.400	27.0	78.3
50826913	0.412	27.9	77.5
50826916	0.396	27.7	77.5
Average	0.404	27.7	78.0
Max. Value	0.412	28.4	78.5
Min. Value	0.396	27.0	77.5
Std. Dev.	0.007	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50826908	5277	50826017	3792-5-9	10462N	O 0955	50825056	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-348nyc

Akzo Nobel Geosynthetics Company
Suite 518 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Date: September 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508311
Manifest No.: 50926001

ROLL(S) TESTED per MLN 508311

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50831901	0.401	28.4	77.5
50831903	0.397	27.4	78.5
50831904	0.409	27.4	77.8
50831909	0.408	27.6	78.0
50831910	0.403	28.0	78.0
Average	0.404	27.8	78.0
Max. Value	0.409	28.4	77.5
Min. Value	0.397	27.4	77.5
Std. Dev.	0.005	0.4	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50931904	5282	50827014	10462N	3792-5-9	O 0955	50829040	10462N	3792-5-9	O 1229
50831905	5282	50827013	10462N	3792-5-9	O 0955	50831001	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-347nyc

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Telephone (704) 665-5050
Telefax (704) 665-5009



Date: September 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509011
Manifest No.: 50926001

ROLL(S) TESTED per MLN 509011

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50901901	0.410	27.5	77.8
50901903	0.403	26.7	77.5
50901906	0.402	26.9	77.5
50901909	0.398	27.3	77.5
50901912	0.405	27.8	77.5
50901915 ✓	0.409	27.3	78.0
50901919	0.407	26.9	77.5
Average	0.405	27.2	77.6
Max. Value	0.410	27.8	78.0
Min. Value	0.398	26.7	77.5
Std. Dev.	0.004	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50901907	5282	50831033	10462N	3792-5-9	O 0955	50901003	10462N	3792-5-9	O 1229
50901909	5282	50829066	10462N	3792-5-9	O 0955	50901022	10462N	3792-5-9	O 1229
50901910	5282	50831025	10462N	3792-5-9	O 0955	50901006	10462N	3792-5-9	O 1229
50901911	5282	50831018	10462N	3792-5-9	O 0955	50901027	10462N	3792-5-9	O 1229
50901912	5282	50830006	10462N	3792-5-9	O 0955	50901029	10462N	3792-5-9	O 1229
50901913	5282	50831054	10462N	3792-5-9	O 0955	50901015	10462N	3792-5-9	O 1229
50901917	5282	50830010	10462N	3792-5-9	O 0955	50827047	10462N	3792-5-9	O 1229
50901918	5277	50830004	10462N	3792-5-9	O 0955	50829043	10462N	3792-5-9	O 1229
50901919	5277	50831034	10462N	3792-5-9	O 0955	50901010	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-346nyc

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Telephone (704) 665-5000
Telefax (704) 665-5009



Date: September 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509171
Manifest No.: 50926001

ROLL(S) TESTED per MLN 509171

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50917903	0.410	28.2	77.5
50917908	0.409	28.2	77.5
50917913	0.404	28.1	77.8
50917918	0.405	28.4	77.5
50917922	0.404	28.6	78.0
50917927	0.410	28.0	77.8
Average	0.407	28.3	77.7
Max. Value	0.410	28.6	78.0
Min. Value	0.404	28.0	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015					
Roll Number	Colback				Amoco					Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50917901	5354	50915018	10462N	3792-5-9	O 0955	50914032	10262N	4261-5-9	O 1229	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-345nyc

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Asheville, NC 28802
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Teletax (704) 665-5009



Date: September 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509181
Manifest No.: 50926001

ROLL(S) TESTED per MLN 509181

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50918903	0.407	28.8	77.5
50918911	0.412	27.4	77.5
50918915	0.405	27.9	77.8
50918919	0.412	28.2	77.8
50918925	0.412	28.3	77.8
50918930	0.409	28.0	78.0
Average	0.410	28.1	77.7
Max. Value	0.412	28.8	78.0
Min. Value	0.405	27.4	77.5
Std. Dev.	0.003	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50918901	5357	50915048	10462N	3792-5-9	O 0955	50917004	10462N	3792-5-9	O 1229
50918903	5357	50915054	10462N	3792-5-9	O 0955	50916011	10462N	3792-5-9	O 1229
50918907	5357	50915050	10462N	3792-5-9	O 0955	50916022	10462N	3792-5-9	O 1229
50918911	5357	50916004	10462N	3792-5-9	O 0955	50914061	10462N	4261-5-9	O 1229
50918912	5361	50916003	10462N	3792-5-9	O 0955	50914062	10462N	4261-5-9	O 1229
50918914	5361	50916005	10462N	3792-5-9	O 0955	50916021	10462N	3792-5-9	O 1229
50918915	5361	50913046	10462N	4118-5-9	O 0955	50916032	10462N	3792-5-9	O 1229
50918916	5361	50917008	10462N	3792-5-9	O 0955	50916033	10462N	3792-5-9	O 1229
50918917	5361	50917009	10462N	3792-5-9	O 0955	50916030	10462N	3792-5-9	O 1229
50918918	5361	50917010	10462N	3792-5-9	O 0955	50916031	10462N	3792-5-9	O 1229
50918922	5357	50917012	10462N	3792-5-9	O 0955	50916034	10462N	3792-5-9	O 1229
50918923	5357	50917013	10462N	3792-5-9	O 0955	50916035	10462N	3792-5-9	O 1229
50918924	5357	50917014	10462N	3792-5-9	O 0955	50916052	10462N	3792-5-9	O 1229
50918925	5357	50917015	10462N	3792-5-9	O 0955	50918038	10462N	3792-5-9	O 1229
50918926	5357	50917006	10462N	3792-5-9	O 0955	50916063	10462N	3792-5-9	O 1229
50918927	5357	50917022	10462N	3792-5-9	O 0955	50918006	10462N	3792-5-9	O 1229
50918928	5357	50917023	10462N	3792-5-9	O 0955	50918007	10462N	3792-5-9	O 1229
50918929	5357	50917018	10462N	3792-5-9	O 0955	50918054	10462N	4261-5-9	O 1229

R.D. Bowen
R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-344nyc

Akzo Nobel Geosynthetics Company
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Asheville, NC 28802
Phone 704/655-5050
Fax 704/655-5000



Date: September 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509191
Manifest No.: 50926001

ROLL(S) TESTED per MLN 509191

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50919903	0.408	28.1	77.8
50919906	0.407	28.1	77.5
50919911	0.413	28.5	77.5
50919916	0.406	28.1	78.0
50919921	0.408	28.2	78.0
Average	0.408	28.2	77.8
Max. Value	0.413	28.5	78.0
Min. Value	0.406	28.1	77.5
Std. Dev.	0.003	0.2	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50919908	5357	50917027	10462N	3792-5-9	O 0955	50916025	10462N	3792-5-9	O 1229
50919909	5354	50917024	10462N	3792-5-9	O 0955	50916028	10462N	3792-5-9	O 1229
50919910	5354	50917019	10462N	3792-5-9	O 0955	50918005	10462N	3792-5-9	O 1229
50919911	5354	50917025	10462N	3792-5-9	O 0955	50916029	10462N	3792-5-9	O 1229
50919913	5354	50917030	10462N	3792-5-9	O 0955	50917001	10462N	3792-5-9	O 1229
50919914	5354	50917031	10462N	3792-5-9	O 0955	50917002	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-343nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
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Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

MEMORANDUM

Date: September 28, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

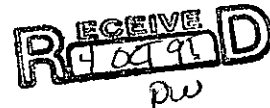
Dear Steve:

Attached are the Letters of Certification for the 36 rolls shipped to you under manifest number 50927008 dated 9/28/95. These letters cover rolls shipped from MLN 509011, 509181, 509191, 509201 and 509211. You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-047.fax



Akzo Nobel Geosynthetics Company
Suite 315 Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telefax: (704) 665-5099

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 28th day of September, 1995.


Notary Public

My Commission Expires May 7, 2000.



Date: September 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509011
Manifest No.: 50927008

ROLL(S) TESTED per MLN 509011

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50901901	0.410	27.5	77.8
50901903	0.403	26.7	77.5
50901906	0.402	26.9	77.5
50901909	0.398	27.3	77.5
50901912	0.405	27.8	77.5
50901915	0.409	27.3	78.0
50901919	0.407	26.9	77.5
Average	0.405	27.2	77.6
Max. Value	0.410	27.8	78.0
Min. Value	0.398	26.7	77.5
Std. Dev.	0.004	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50901914	5282	50831038	10462N	3792-5-9	O 0955	50901028	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-355nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665 5050
Telefax (704) 665 5009



Date: September 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509181
Manifest No.: 50927008

ROLL(S) TESTED per MLN 509181

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50918903	0.407	28.8	77.5
50918911 ✓	0.412	27.4	77.5
50918915 ✓	0.405	27.9	77.8
50918919	0.412	28.2	77.8
50918925	0.412	28.3	77.8
50918930	0.409	28.0	78.0
Average	0.410	28.1	77.7
Max. Value	0.412	28.8	78.0
Min. Value	0.405	27.4	77.5
Std. Dev.	0.003	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50918902	5357	50915047	10462N	3792-5-9	O 0955	50914058	10462N	4261-5-9	O 1229
50918904	5357	50915053	10462N	3792-5-9	O 0955	50916010	10462N	3792-5-9	O 1229
50918905	5357	50915052	10462N	3792-5-9	O 0955	50915002	10462N	3792-5-9	O 1229
50918906	5357	50915051	10462N	3792-5-9	O 0955	50915001	10462N	3792-5-9	O 1229
50918908	5357	50915049	10462N	3792-5-9	O 0955	50916023	10462N	3792-5-9	O 1229
50918913	5361	50915055	10462N	3792-5-9	O 0955	50916020	10462N	3792-5-9	O 1229
50918919	5361	50917011	10462N	3792-5-9	O 0955	50916041	10462N	3792-5-9	O 1229
50918920	5357	50915007	10462N	3792-5-9	O 0955	50916038	10462N	3792-5-9	O 1229
50918921	5357	50915008	10462N	3792-5-9	O 0955	50916039	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
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Telex 704 667 5000



Date: September 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509191
Manifest No.: 50927008

ROLL(S) TESTED per MLN 509191

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50919903	0.408	28.1	77.8
50919906	0.407	28.1	77.5
50919911	0.413	28.5	77.5
50919916	0.406	28.1	78.0
50919921	0.408	28.2	78.0
Average	0.408	28.2	77.8
Max. Value	0.413	28.5	78.0
Min. Value	0.406	28.1	77.5
Std. Dev.	0.003	0.2	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50919901	5357	50917028	10462N	3792-5-9	O 0955	50918059	10462N	4261-5-9	O 1229
50919904	5357	50917021	10462N	3792-5-9	O 0955	50917003	10462N	3792-5-9	O 1229
50919916	5354	50917033	10462N	3792-5-9	O 0955	50916027	10462N	3792-5-9	O 1229
50919917	5361	50917041	10462N	3792-5-9	O 0955	50916016	10462N	3792-5-9	O 1229
50919918	5361	50917040	10462N	3792-5-9	O 0955	50916017	10462N	3792-5-9	O 1229
50919919	5361	50917037	10462N	3792-5-9	O 0955	50916014	10462N	3792-5-9	O 1229
50919920	5361	50917036	10462N	3792-5-9	O 0955	50916043	10462N	3792-5-9	O 1229
50919921	5361	50917038	10462N	3792-5-9	O 0955	50916042	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Akzo Nobel Geosynthetics Company
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Asheville, NC 28802
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Date: September 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509201
Manifest No.: 50927008

ROLL(S) TESTED per MLN 509201

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50920903	0.401	27.8	77.5
50920908	0.411	28.4	77.8
50920912	0.408	28.4	77.5
50920917	0.404	27.9	77.8
Average	0.406	28.1	77.8
Max. Value	0.411	28.4	77.8
Min. Value	0.401	27.8	77.5
Std. Dev.	0.004	0.3	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50920902	5361	50919031	10462N	4261-5-9	Q 0903	50916049	10462N	3792-5-9	0 1229
50920903	5361	50919032	10462N	4261-5-9	Q 0903	50916048	10462N	3792-5-9	0 1229
50920904	5361	50917034	10462N	3792-5-9	O 0955	50916047	10462N	3792-5-9	0 1229
50920905	5361	50917035	10462N	3792-5-9	O 0955	50916046	10462N	3792-5-9	0 1229
50920907	5361	50917042	10462N	3792-5-9	O 0955	50916052	10462N	3792-5-9	0 1229
50920909	5361	50917049	10462N	3792-5-9	Q 0903	50916050	10462N	3792-5-9	0 1229
50920910	5361	50917048	10462N	3792-5-9	Q 0903	50916055	10462N	3792-5-9	0 1229
50920911	5361	50917039	10462N	3792-5-9	O 0955	50916045	10462N	3792-5-9	0 1229
50920912	5361	50917044	10462N	3792-5-9	O 0955	50916054	10462N	3792-5-9	0 1229
50920913	5361	50917047	10462N	3792-5-9	Q 0903	50916057	10462N	3792-5-9	0 1229
50920914	5361	50917046	10462N	3792-5-9	Q 0903	50916056	10462N	3792-5-9	0 1229
50920918	5361	50911019	10462N	3792-5-9	O 0955	50916059	10462N	3792-5-9	0 1229
50920919	5361	50919025	10462N	4261-5-9	Q 0903	50920023	10462N	4261-5-9	0 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

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Akzo Nobel Geosynthetics Company
Suite 318 Ridgely Business Center
Ridgely, MD
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Arlington, VA 22202
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Fax: 703-655-5009



Date: September 28, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509211
Manifest No.: 50927008

ROLL(S) TESTED per MLN 509211

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50921906	0.403	27.8	77.8
50921909	0.401	27.7	77.8
50921915	0.407	27.8	77.5
50921918	0.410	27.5	77.5
50921922	0.406	27.9	77.8
Average	0.405	27.7	77.7
Max. Value	0.410	27.9	77.8
Min. Value	0.401	27.5	77.5
Std. Dev.	0.004	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50921901	5361	50919026	10462N	4261-5-9	Q 0903	50916058	10462N	3792-5-9	O 1229
50921902	5361	50919021	10462N	4261-5-9	Q 0903	50920020	10462N	4261-5-9	O 1229
50921904	5361	50919030	10462N	4261-5-9	Q 0903	50916065	10462N	3792-5-9	O 1229
50921905	5361	50919029	10462N	4261-5-9	Q 0903	50916064	10462N	3792-5-9	O 1229
50921911	5354	50920057	10462N	4118-5-9	Q 0903	50918021	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-351nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgecroft Business Center
Ridgefield Court
P.O. Box 1249
Asheville, NC 28801



Geosynthetics

October 2, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for Amoco Style 4597 used on Enkanet 4215-102-0000, East
North Project

Gentlemen:

Attached are the laboratory results and Letter of Certification for Amoco Style 4597
shipped to us on September 26, 1995 under Shipping # Q1550.

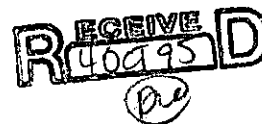
Product from this Shipping Number will be used to fabricate future rolls of Enkanet 4215-
102-0000. You will be able to determine when geotextile from Shipping #Q1550 has been
used in the fabrication of finished rolls of Enkanet 4215-102-0000 as all Akzo Nobel
Letters of Certification list the specific Amoco 4597 Shipping # for every roll of Enkanet
4215-102-0000 shipped to your site.

We certify that the test values for Amoco Style 4597 are accurate to the best of our
knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R41.nyc



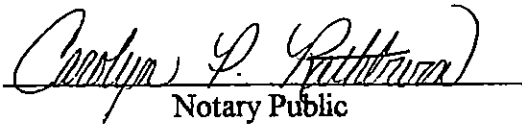
Akzo Nobel Geosynthetics Company
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NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 2nd day of October, 1995.


Notary Public

My Commission Expires May 7, 2000.



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 27, 1995

Rick Bowen
Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-509033

We wish to certify that the Amoco Style 4597, shipped to you under Shipping # Q1550, dated September 26, 1995, meets the following minimum roll averages:

<u>Property</u>	<u>Test Method</u>	<u>Minimum Roll</u>	
		<u>Average Value</u>	<u>Typical Value</u>
Grab Tensile, lbs.	ASTM-D-4632	120	156
Grab Elongation, %	ASTM-D-4632	50	57
Mullen Burst, psi	ASTM-D-3786	250	310
Puncture, lbs.	ASTM-D-4833 (Mod1)	75	94
Trapezoid Tear, lbs.	ASTM-D-4533	45	63
U.V. Resistance, ** (Strength Retained)	ASTM-D-4355	70	85
Flow Rate-gpm/ft ²	ASTM-D-4491	75	140
Coefficient of Permeability (cm/sec)	ASTM-D-4491	.2	.3
AOS (Sieve Size)	ASTM-D-4751	70	70
Fabric Weight (oz/yd ²)	ASTM-D-3776	4.0	5.0
Permittivity (sec 1)	ASTM-D-4491	1.4	2.1

*Percent of minimum grab tensile after conditioning.

Amoco Fabrics and Fibers Company manufactures all the nonwoven geotextile fabrics certified above. The values above are a result of testing conducted in on-site laboratories at the time of production. The typical values provided are for comparison purposes, and are representative of current production of this product. All test methods used are ASTM or industry standards. Test data is retained in the Quality Control files at Amoco's production facility.

Bennie J. Boutwell
Quality Assurance Manager
Amoco Fabrics and Fibers Company

mom



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 27, 1995

Rick Bowen
Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-509033

Shipping # Q1550, dated September 26, 1995

Piece	Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
1893110	4597	5.52	56	128	75	356	110	68	100+
1893111	4597	5.52	56	128	75	356	110	68	100+
1893113	4597	5.52	56	128	75	356	110	68	100+
1893162	4597	6.11	50	138	67	378	152	81	100+
1893163	4597	6.11	50	138	67	378	152	81	100+
1893164	4597	6.11	50	138	67	378	152	81	100+
1893172	4597	5.35	48	124	63	377	131	73	100+
1893173	4597	5.35	48	124	63	377	131	73	100+
1893174	4597	5.35	48	124	63	377	131	73	100+
1893175	4597	5.35	48	124	63	377	131	73	100+
1893197	4597	5.56	55	131	62	323	121	71	100+
1893198	4597	5.56	55	131	62	323	121	71	100+
1893199	4597	5.56	55	131	62	323	121	71	100+
1893200	4597	5.56	55	131	62	323	121	71	100+
1893202	4597	5.27	45	140	66	347	113	65	100+
1893203	4597	5.27	45	140	66	347	113	65	100+
1893204	4597	5.27	45	140	66	347	113	65	100+
1893205	4597	5.27	45	140	66	347	113	65	100+
1893229	4597	4.76	48	122	64	336	110	63	100+
1893230	4597	4.76	48	122	64	336	110	63	100+
1893231	4597	4.76	48	122	64	336	110	63	100+
1893232	4597	4.76	48	122	64	336	110	63	100+
1893260	4597	5.13	49	126	63	373	129	66	100+
1893263	4597	5.13	49	126	63	373	129	66	100+
1893264	4597	5.60	53	131	63	409	124	85	100+
1893267	4597	5.60	53	131	63	409	124	85	100+
1893283	4597	5.43	51	147	60	362	110	66	100+
1893285	4597	5.43	51	147	60	362	110	66	100+
1893286	4597	5.43	51	147	60	362	110	66	100+

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 27, 1995

Rick Bowen
Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-509033
Shipping # Q1550, dated September 26, 1995

Piece		Weight								
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.	
1893290	4597	5.26	50	127	58	342	110	79	100+	
1893291	4597	5.89	52	150	59	303	130	66	100+	
1893299	4597	5.36	49	141	61	306	129	76	100+	
1893300	4597	5.36	49	141	61	306	129	76	100+	
1893302	4597	5.36	49	141	61	306	129	76	100+	
1893303	4597	5.65	52	139	63	358	125	81	100+	
1893480	4597	5.56	51	139	64	377	106	65	100+	
1893485	4597	5.41	51	136	62	313	126	65	100+	
1893486	4597	5.41	51	136	62	313	126	65	100+	
1893498	4597	5.40	55	124	66	372	130	58	100+	
1893499	4597	5.40	55	124	66	372	130	58	100+	
1893500	4597	5.40	55	124	66	372	130	58	100+	
1893510	4597	5.49	55	141	67	357	107	71	100+	
1893511	4597	5.49	55	141	67	357	107	71	100+	
1893512	4597	5.49	55	141	67	357	107	71	100+	
1893513	4597	5.53	57	136	66	372	128	65	100+	
1893514	4597	5.53	57	136	66	372	128	65	100+	
1893515	4597	5.53	57	136	66	372	128	65	100+	
1893525	4597	5.87	58	149	71	343	135	67	100+	
1893526	4597	5.87	58	149	71	343	135	67	100+	
1893527	4597	5.87	58	149	71	343	135	67	100+	
1893551	4597	5.91	60	146	73	364	129	73	100+	
1893552	4597	5.91	60	146	73	364	129	73	100+	
1893553	4597	5.91	60	146	73	364	129	73	100+	
1893554	4597	5.90	57	149	67	442	159	76	100+	
1893555	4597	5.90	57	149	67	442	159	76	100+	
1893561	4597	5.95	57	152	71	379	131	79	100+	
1893562	4597	5.95	57	152	71	379	131	79	100+	
1893563	4597	5.95	57	152	71	379	131	79	100+	
1893564	4597	5.81	55	140	66	366	156	68	100+	

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 27, 1995

Rick Bowen
Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-509033
Shipping # Q1550, dated September 26, 1995

Piece	Weight									
Number	Style	Yd.2 Oz.	Thickness	Tensile	Elong	Burst	Puncture	Trap	Tear	A.O.S.
1893565	4597	5.81	55	140	66	366	156	68	100+	
1893566	4597	5.81	55	140	66	366	156	68	100+	
1893577	4597	5.54	52	147	65	335	119	70	100+	
1893578	4597	5.54	52	147	65	335	119	70	100+	
1893646	4597	5.63	54	152	70	365	115	70	100+	
1893647	4597	5.63	54	152	70	365	115	70	100+	
1893648	4597	5.63	54	152	70	365	115	70	100+	
1893666	4597	5.61	55	137	67	382	121	73	100+	
1893667	4597	5.61	55	137	67	382	121	73	100+	
1893668	4597	5.61	55	137	67	382	121	73	100+	
1893670	4597	5.71	57	138	68	346	131	79	100+	
1893671	4597	5.71	57	138	68	346	131	79	100+	
1893672	4597	5.71	57	138	68	346	131	79	100+	
1893681	4597	5.49	54	137	68	348	136	55	100+	
1893682	4597	5.49	54	137	68	348	136	55	100+	
1893683	4597	5.49	54	137	68	348	136	55	100+	
1893684	4597	5.41	51	139	70	338	116	58	100+	
1893685	4597	5.41	51	139	70	338	116	58	100+	
1893686	4597	5.41	51	139	70	338	116	58	100+	
1893690	4597	5.50	54	130	70	335	119	59	100+	
1893691	4597	5.50	54	130	70	335	119	59	100+	
1893692	4597	5.50	54	130	70	335	119	59	100+	
1893693	4597	5.50	51	134	65	335	134	67	100+	
1893694	4597	5.50	51	134	65	335	134	67	100+	
1893695	4597	5.50	51	134	65	335	134	67	100+	
1893730	4597	5.47	54	127	69	347	117	66	100+	
1893731	4597	5.47	54	127	69	347	117	66	100+	
1893732	4597	5.47	54	127	69	347	117	66	100+	
1893733	4597	5.68	57	136	71	366	117	84	100+	
1893734	4597	5.68	57	136	71	366	117	84	100+	

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY



Amoco Fabrics and Fibers Company

Quality Control Department
P. O. Box 836
Hazlehurst, Georgia 31539-0451

September 27, 1995

Rick Bowen
Akzo Fibers Incorporated
P. O. Box 7249
Asheville, NC 28802

Re: Purchase Order # 85-509033
Shipping # Q1550, dated September 26, 1995

Piece	Weight		Thickness	Tensile	Elong	Burst	Puncture	Trap Tear	A.O.S.
Number	Style	Yd.2 Oz.							
1893735	4597	5.68	57	136	71	366	117	84	100+
1893755	4597	5.75	54	138	73	364	121	75	100+
1893756	4597	5.75	54	138	73	364	121	75	100+
1893757	4597	5.75	54	138	73	364	121	75	100+
1893758	4597	5.54	56	130	74	349	125	83	100+
1893759	4597	5.54	56	130	74	349	125	83	100+
1893760	4597	5.54	56	130	74	349	125	83	100+
1893772	4597	5.73	57	127	67	396	132	78	100+
1893773	4597	5.73	57	127	67	396	132	78	100+
1893774	4597	5.73	57	127	67	396	132	78	100+
1893775	4597	6.28	59	144	74	318	116	74	100+
1893776	4597	6.28	59	144	74	318	116	74	100+
1893777	4597	6.28	59	144	74	318	116	74	100+
9522942	4597	5.50	54	140	71	372	123	65	100+
9522943	4597	5.50	54	140	71	372	123	65	100+
9522944	4597	5.50	54	140	71	372	123	65	100+

THIS DOCUMENT CONTAINS
INFORMATION CLAIMED AS
TRADE SECRET-CONFIDENTIAL
BY AMOCO FABRICS COMPANY

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 4th day of October, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: October 4, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls shipped to you under manifest number 51004003 dated 10/04/95. These letters cover rolls shipped from MLN 509201, 509221, 509231, 509241 and 509251. You will receive the hard copies of these results by regular mail.

Sincerely,

A handwritten signature in cursive script, appearing to read "R Bowen", is written over the printed name.

Rick Bowen

Brix-048.fax



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509201
Manifest No.: 51004003

ROLL(S) TESTED per MLN 509201

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50920903	0.401	27.8	77.5
50920908	0.411	28.4	77.8
50920912	0.408	28.4	77.5
50920917	0.404	27.9	77.8
Average	0.406	28.1	77.8
Max. Value	0.411	28.4	77.8
Min. Value	0.401	27.8	77.5
Std. Dev.	0.004	0.3	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50920908	5361	50917045	10462N	3792-5-9	Q 0903	50916051	10462N	3792-5-9	0 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-356nyc

Akzo Nobel Geosynthetics Company
5000 Ridgefield Business Center
Ridgefield, CT 06370
Tel: 203/438-8800
Fax: 203/438-8801



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509221
Manifest No.: 51004003

ROLL(S) TESTED per MLN 509221

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50922903	0.400	27.7	77.5
50922906	0.406	27.4	77.5
50922910	0.409	28.0	77.8
50922916	0.409	28.0	77.5
50922925	0.405	27.8	77.5
50922928	0.413	28.0	77.5
Average	0.407	27.8	77.6
Max. Value	0.413	28.0	77.8
Min. Value	0.400	27.4	77.5
Std. Dev.	0.004	0.2	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50922909	5354	50920003	10462N	4261-5-9	Q 0903	50918029	10462N	3792-5-9	O 1229
50922910	5354	50920004	10462N	4261-5-9	Q 0903	50918028	10462N	3792-5-9	O 1229
50922911	5354	50920002	10462N	4261-5-9	Q 0903	50918024	10462N	3792-5-9	O 1229
50922912	5354	50920001	10462N	4261-5-9	Q 0903	50918025	10462N	3792-5-9	O 1229
50922913	5354	50919050	10462N	4261-5-9	Q 0903	50918026	10462N	3792-5-9	O 1229
50922914	5354	50919051	10462N	4261-5-9	Q 0903	50918027	10462N	3792-5-9	O 1229
50922915	5354	50920058	10462N	4118-5-9	Q 0903	50920017	10462N	4118-5-9	O 1229
50922916	5354	50921015	10462N	4118-5-9	Q 0903	50918032	10462N	3792-5-9	O 1229
50922917	5354	50920005	10462N	4261-5-9	Q 0903	50918033	10462N	3792-5-9	O 1229
50922918	5354	50921014	10462N	4118-5-9	Q 0903	50918031	10462N	3792-5-9	O 1229
50922919	5361	50921018	10462N	4118-5-9	Q 0903	50918030	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-357nyc

50922909 5354 50920003 10462N 4261-5-9 Q 0903 50918029 10462N 3792-5-9 O 1229
50922910 5354 50920004 10462N 4261-5-9 Q 0903 50918028 10462N 3792-5-9 O 1229
50922911 5354 50920002 10462N 4261-5-9 Q 0903 50918024 10462N 3792-5-9 O 1229
50922912 5354 50920001 10462N 4261-5-9 Q 0903 50918025 10462N 3792-5-9 O 1229
50922913 5354 50919050 10462N 4261-5-9 Q 0903 50918026 10462N 3792-5-9 O 1229
50922914 5354 50919051 10462N 4261-5-9 Q 0903 50918027 10462N 3792-5-9 O 1229
50922915 5354 50920058 10462N 4118-5-9 Q 0903 50920017 10462N 4118-5-9 O 1229
50922916 5354 50921015 10462N 4118-5-9 Q 0903 50918032 10462N 3792-5-9 O 1229
50922917 5354 50920005 10462N 4261-5-9 Q 0903 50918033 10462N 3792-5-9 O 1229
50922918 5354 50921014 10462N 4118-5-9 Q 0903 50918031 10462N 3792-5-9 O 1229
50922919 5361 50921018 10462N 4118-5-9 Q 0903 50918030 10462N 3792-5-9 O 1229



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509231
Manifest No.: 51004003

ROLL(S) TESTED per MLN 509231

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50923903	0.406	27.9	77.8
50923906	0.412	28.0	77.8
50923911	0.407	27.4	77.5
50923917	0.414	28.2	77.8
50923921	0.410	27.5	77.8
Average	0.410	27.8	77.7
Max. Value	0.414	28.2	77.8
Min. Value	0.406	27.4	77.5
Std. Dev.	0.003	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50923911	5354	50919005	10462N	4261-5-9	Q 0903	50918056	10462N	4261-5-9	O 1229
50923912	5354	50921005	10462N	4118-5-9	Q 0903	50919004	10462N	4261-5-9	O 1229
50923913	5354	50919006	10462N	4261-5-9	Q 0903	50919003	10462N	4261-5-9	O 1229
50923914	5354	50917059	10462N	3792-5-9	Q 0903	50918055	10462N	4261-5-9	O 1229
50923915	5354	50918001	10462N	3792-5-9	Q 0903	50918053	10462N	4261-5-9	O 1229
50923916	5354	50917055	10462N	3792-5-9	O 0955	50920007	10462N	4261-5-9	O 1229
50923917	5354	50917054	10462N	3792-5-9	O 0955	50910056	10462N	3792-5-9	O 1229
50923919	5354	50919028	10462N	4261-5-9	Q 0903	50920015	10462N	4261-5-9	O 1229
50923920	5354	50915056	10462N	3792-5-9	O 0955	50920018	10462N	4261-5-9	O 1229
50923921	5354	50917052	10462N	3792-5-9	Q 0903	50910019	10462N	4261-5-9	O 1229
50923922	5354	50919009	10462N	4261-5-9	Q 0903	50830061	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-358nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgely Business Center
Ridgely, MD 21070
P.O. Box 1249
Arlington, NC 28802
Tel: (704) 366-1200
Fax: (704) 366-1201



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509241
Manifest No.: 51004003

ROLL(S) TESTED per MLN 509241

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50924901	0.411	27.2	77.8
50924905	0.409	27.2	77.5
50924911	0.408	27.9	77.5
50924916	0.416	28.6	77.5
50924922	0.415	28.8	77.5
Average	0.412	27.9	77.6
Max. Value	0.416	28.8	77.8
Min. Value	0.408	27.2	77.5
Std. Dev.	0.004	0.8	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50924905	5361	50919007	10462N	4261-5-9	Q 0903	50920037	10462N	4118-5-9	O 1229
50924906	5361	50919012	10462N	4261-5-9	Q 0903	50920026	10462N	4261-5-9	O 1229
50924909	5361	50919008	10462N	4261-5-9	Q 0903	50918058	10462N	4261-5-9	O 1229
50924910	5361	50919010	10462N	4261-5-9	Q 0903	50920024	10462N	4261-5-9	O 1229
50924911	5361	50918003	10462N	3792-5-9	Q 0903	50920025	10462N	4261-5-9	O 1229
50924912	5361	50918002	10462N	3792-5-9	Q 0903	50920043	10462N	4118-5-9	O 1229
50924913	5361	50913045	10462N	4118-5-9	O 0955	50920032	10462N	4118-5-9	O 1229
50924914	5361	50917057	10462N	3792-5-9	O 0955	50920033	10462N	4118-5-9	O 1229
50924915	5361	50920046	10462N	4118-5-9	O 1229	50920047	10462N	4118-5-9	O 1229
50924916	5361	50920029	10462N	4261-5-9	O 1229	50920028	10462N	4261-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-360nyc

AKZO NOBEL
SPELLENDE
RUGGEM
P.O. Box 123
Amsterdam, The Netherlands
1000 AA



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509251
Manifest No.: 51004003

ROLL(S) TESTED per MLN 509251

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50925901	0.412	27.6	77.8
50925902	0.410	27.5	77.5
50925905	0.414	28.2	78.3
50925906	0.428	28.4	77.8
50925907	0.403	26.3	78.0
Average	0.413	27.6	77.9
Max. Value	0.428	28.4	78.3
Min. Value	0.403	27.5	77.5
Std. Dev.	0.009	0.8	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50925902	5354	50912027	10462N	4118-5-9	O 1229	50912030	10462N	4118-5-9	O 1229
50925903	5354	50912024	10462N	3792-5-9	O 1229	50912026	10462N	4118-5-9	O 1229
50925905	5282	50911017	10462N	3792-5-9	O 0955	50912039	10462N	4118-5-9	O 1229
50925906	5282	50911018	10462N	3792-5-9	O 0955	50910039	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-361nyc

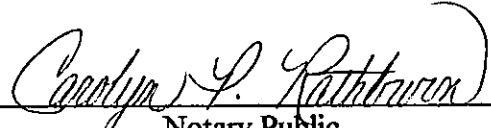
AKZO NOBEL
Sole U.S. Representative
Rohm and Haas Company
P.O. Box 1220
Ash Grove, MO 65601
Tel: (417) 261-1000

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 4th day of October, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: October 4, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 12

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 33 rolls of Enkanet 4215-102-0000 shipped to you under manifest number 51004004 dated 10/04/95. These letters cover rolls shipped from MLN 508251, 508261, 509011, 509181, 509191, 509201, 509211, and 509221. The remaining 4 rolls of Enkanet 4215-102-0000 to complete this truckload are listed under manifest number 51004005 dated 10/04/95. These Letters of Certification for Enkanet 4215-102-0000 cover product shipped from MLN 509241, and 509251.

You will receive the hard copies of these results by regular mail.

Sincerely,


Rick Bowen

Brix-049.fax



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508251
Manifest No.: 51004004

ROLL(S) TESTED per MLN 508251

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50825902	0.400	28.0	77.5
Average	0.400	28.0	77.5
Max. Value	0.400	28.0	77.5
Min. Value	0.400	28.0	77.5
Std. Dev.	0.000	0.0	0.0

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
50825904	5277	50723044	10462N	3590-5-9	E1395	50825049	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-362nyc



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508261
Manifest No.: 51004004

ROLL(S) TESTED per MLN 508261

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50826901	0.411	28.4	78.5
50826905	0.403	27.5	78.3
50826912	0.400	27.0	78.3
50826913	0.412	27.9	77.5
50826916	0.396	27.7	77.5
Average	0.404	27.7	78.0
Max. Value	0.412	28.4	78.5
Min. Value	0.396	27.0	77.5
Std. Dev.	0.007	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
50826902	5277	50723053	3590-5-9	10462N	E 1395	50825047	10462N	3792-5-9	O 1229
50826903	5277	50723052	3590-5-9	10462N	E 1395	50826001	10462N	3792-5-9	O 1229
50826904	5277	50723056	3590-5-9	10462N	E 1395	50826002	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-363nyc



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509011
Manifest No.: 51004004

ROLL(S) TESTED per MLN 509011

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50901901	0.410	27.5	77.8
50901903	0.403	26.7	77.5
50901906	0.402	26.9	77.5
50901909	0.398	27.3	77.5
50901912	0.405	27.8	77.5
50901915	0.409	27.3	78.0
50901919	0.407	26.9	77.5
Average	0.405	27.2	77.6
Max. Value	0.410	27.8	78.0
Min. Value	0.398	26.7	77.5
Std. Dev.	0.004	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50901915	5282	50830005	10462N	3792-5-9	O 0955	50901005	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-366nyc



Geosynthetics

Date: October 4, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509181
Manifest No.: 51004004

ROLL(S) TESTED per MLN 509181

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50918903	0.407	28.8	77.5
50918911	0.412	27.4	77.5
50918915	0.405	27.9	77.8
50918919	0.412	28.2	77.8
50918925	0.412	28.3	77.8
50918930	0.409	28.0	78.0
Average	0.410	28.1	77.7
Max. Value	0.412	28.8	78.0
Min. Value	0.405	27.4	77.5
Std. Dev.	0.003	0.5	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50918930	5357	50917007	10462N	3792-5-9	O 0955	50918004	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-365nyc

Geosynthetics Company
1000 Ingfield Boulevard
P.O. Box 1000
St. Louis, MO 63103
(314) 291-1000
FAX (314) 291-1001
Telex 340000



Geosynthetics

Date: October 4, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509191
Manifest No.: 51004004

ROLL(S) TESTED per MLN 509191

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50919903	0.408	28.1	77.8
50919906	0.407	28.1	77.5
50919911	0.413	28.5	77.5
50919916	0.406	28.1	78.0
50919921	0.408	28.2	78.0
Average	0.408	28.2	77.8
Max. Value	0.413	28.5	78.0
Min. Value	0.406	28.1	77.5
Std. Dev.	0.003	0.2	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50919902	5357	50917029	10462N	3792-5-9	O 0955	50829033	10462N	3792-5-9	O 1229
50919903	5357	50917020	10462N	3792-5-9	O 0955	50916036	10462N	3792-5-9	O 1229
50919905	5357	50917016	10462N	3792-5-9	O 0955	50916037	10462N	3792-5-9	O 1229
50919907	5357	50917026	10462N	3792-5-9	O 0955	50916024	10462N	3792-5-9	O 1229
50919915	5354	50917032	10462N	3792-5-9	O 0955	50916026	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-364nyc



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509201
Manifest No.: 51004004

ROLL(S) TESTED per MLN 509201

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50920903	0.401	27.8	77.5
50920908	0.411	28.4	77.8
50920912	0.408	28.4	77.5
50920917	0.404	27.9	77.8
Average	0.406	28.1	77.8
Max. Value	0.411	28.4	77.8
Min. Value	0.401	27.8	77.5
Std. Dev.	0.004	0.3	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50920915	5361	50919017	10462N	4261-5-9	Q 0903	50916061	10462N	3792-5-9	0 1229
50920917	5361	50919034	10462N	4261-5-9	O 0955	50916060	10462N	3792-5-9	0 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-367nyc



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509211
Manifest No.: 51004004

ROLL(S) TESTED per MLN 509211

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50921906	0.403	27.8	77.8
50921909	0.401	27.7	77.8
50921915	0.407	27.8	77.5
50921918	0.410	27.5	77.5
50921922	0.406	27.9	77.8
Average	0.405	27.7	77.7
Max. Value	0.410	27.9	77.8
Min. Value	0.401	27.5	77.5
Std. Dev.	0.004	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50921906	5361	50920062	10462N	4118-5-9	Q 0903	50918012	10462N	3792-5-9	O 1229
50921907	5361	50920056	10462N	4118-5-9	Q 0903	50918013	10462N	3792-5-9	O 1229
50921908	5361	50920055	10462N	4118-5-9	Q 0903	50918014	10462N	3792-5-9	O 1229
50921909	5354	50920059	10462N	4118-5-9	Q 0903	50918015	10462N	3792-5-9	O 1229
50921910	5354	50919052	10462N	4261-5-9	Q 0903	50918020	10462N	3792-5-9	O 1229
50921912	5354	50919048	10462N	4261-5-9	Q 0903	50918019	10462N	3792-5-9	O 1229
50921913	5354	50919037	10462N	4261-5-9	Q 0903	50918018	10462N	3792-5-9	O 1229
50921914	5354	50919038	10462N	4261-5-9	Q 0903	50918022	10462N	3792-5-9	O 1229
50921915	5354	50919020	10462N	4261-5-9	Q 0903	50918023	10462N	3792-5-9	O 1229
50921916	5354	50919049	10462N	4261-5-9	Q 0903	50920012	10462N	4261-5-9	O 1229
50921917	5354	50919019	10462N	4261-5-9	Q 0903	50920013	10462N	4261-5-9	O 1229
50921918	5354	50919023	10462N	4261-5-9	Q 0903	50920008	10462N	4261-5-9	O 1229
50921919	5354	50919024	10462N	4261-5-9	Q 0903	50920006	10462N	4261-5-9	O 1229
50921920	5354	50919035	10462N	4261-5-9	O 0955	50910048	10462N	3792-5-9	O 1229
50921922	5361	50919027	10462N	4261-5-9	Q 0903	50920009	10462N	4261-5-9	O 1229
50921924	5361	50919043	10462N	4261-5-9	Q 0903	50920010	10462N	4261-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-368.nyc



Geosynthetics

Date: October 4, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509221
Manifest No.: 51004004

ROLL(S) TESTED per MLN 509221

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50922903	0.400	27.7	77.5
50922906	0.406	27.4	77.5
50922910	0.409	28.0	77.8
50922916	0.409	28.0	77.5
50922925	0.405	27.8	77.5
50922928	0.413	28.0	77.5
Average	0.407	27.8	77.6
Max. Value	0.413	28.0	77.8
Min. Value	0.400	27.4	77.5
Std. Dev.	0.004	0.2	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50922901	5361	50919039	10462N	4261-5-9	Q 0903	50920011	10462N	4261-5-9	O 1229
50922902	5361	50919042	10462N	4261-5-9	Q 0903	50918008	10462N	3792-5-9	O 1229
50922903	5361	50919047	10462N	4261-5-9	Q 0903	50917005	10462N	3792-5-9	O 1229
50922908	5354	50921017	10462N	4118-5-9	Q 0903	50918011	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-369nyc



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509241
Manifest No.: 51004005

ROLL(S) TESTED per MLN 509241

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50924901	0.411	27.2	77.8
50924905	0.409	27.2	77.5
50924911	0.408	27.9	77.5
50924916	0.416	28.6	77.5
50924922	0.415	28.8	77.5
Average	0.412	27.9	77.6
Max. Value	0.416	28.8	77.8
Min. Value	0.408	27.2	77.5
Std. Dev.	0.004	0.8	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50924917	5354	50920031	10462N	4261-5-9	O 1229	50920035	10462N	4118-5-9	O 1229
50924918	5354	50920041	10462N	4118-5-9	O 1229	50920034	10462N	4118-5-9	O 1229
50924920	5354	50920051	10462N	4118-5-9	O 1229	50920044	10462N	4118-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-370nyc



Date: October 4, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509251
Manifest No.: 51004005

ROLL(S) TESTED per MLN 509251

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50925901	0.412	27.6	77.8
50925902	0.410	27.5	77.5
50925905	0.414	28.2	78.3
50925906	0.428	28.4	77.8
50925907	0.403	26.3	78.0
Average	0.413	27.6	77.9
Max. Value	0.428	28.4	78.3
Min. Value	0.403	27.5	77.5
Std. Dev.	0.009	0.8	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50925907	5282	50920052	10462N	4118-5-9	O 1229	50910027	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-371nyc

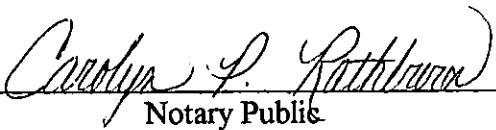
Akzo Nobel Geosynthetics
11800 Blythe Way
Houston, TX 77060
Tel: 281-260-1000
Fax: 281-260-1001

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 6th day of October, 1995.


Notary Public

My Commission Expires May 7, 2000.



October 6, 1995

Geosynthetics

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Laboratory Conformance Results for Colback Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Sir:

Attached please find the laboratory conformance results conducted on Colback ND120 by GeoSyntec Consultants, Boca Raton, Florida.

These lots (#5357, 5364, 5362, and 5363) meet the revised Minimum Roll Average Values project specifications for the nonwoven, heat-bonded geotextile recommended by Mr. Cargill in his letter dated May 4, 1995 addressed to Mr. Gladysz of Cashin Associates, P.C.

These lots will be used for current and future production of finished rolls of Enkanet 4215-102-0000. Please note that all Letters of Certification from Akzo Nobel include the Colback lot # that was used for each finished roll of Enkanet 4215-102-0000 shipped to the project site.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-381.nyc

**GEOSYNTEC CONSULTANTS**

Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
 CONTACT: Mr. Rick Bowen
 GEOSYNTec JOB NO.: FLQ5942

CLIENT ID: Lot # 5357
 DATE TESTED: 09/25/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
118.4	122.4	122.3	121.8	121.4	117.7	115.5	121.2	121.6	121.3
3.5	3.6	3.6	3.6	3.6	3.5	3.4	3.6	3.6	3.6
0.55	0.57	0.55	0.52	0.57	0.55	0.57	0.59	0.55	0.52
21.7	22.4	21.7	20.5	22.4	21.7	22.4	23.2	21.7	20.5
176.1	133.0	190.9	175.0	161.6	166.0	119.8	145.2	179.7	153.7
168.5	171.1	167.3	156.1	140.9	140.3	159.5	150.6	145.0	165.9
71.7	72.7	79.7	73.0	68.3	66.3	61.3	77.7	80.0	70.0
75.3	74.3	73.3	75.0	65.0	66.3	61.3	67.0	62.0	68.0
50.0	61.0	49.0	55.0	46.0	61.0	48.0	49.0	57.0	55.0
56.0	52.0	55.0	49.0	46.0	48.0	43.0	45.0	50.0	53.0
228	205	215	185	215	186	181	184	184	207
59.9	61.8	61.4	48.3	60.7	39.5	49.5	48.4	45.7	56.2
0.231	0.284	0.282	0.292	0.270					
60	50	50	50	50					
3.017	3.006	2.993	2.981						
222.2	221.3	220.4	219.4						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ²	120.4	2.32		
	oz/yd ²	3.5	0.07		
THICKNESS (ASTM D1777)	mm	0.55	0.022		
	mil	21.8	0.87		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		160.1	22.28		
XD		156.5	11.76		
GRAB ELONGATION (ASTM D4632)	%				
RD		72.1	5.98		
XD		68.8	5.36		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		53.1	5.45		
XD		49.7	4.32		
MULLEN BURST STRENGTH* (ASTM D3786)	psi	199	17.0		
PUNCTURE STRENGTH (ASTM D4833)	lb	53.1	7.86		
APPARENT OPENING SIZE (ASTM D4751)	mm	0.272	0.0241		
	sieve no.**	50	N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	2.999	0.0156		
FLOW RATE (ASTM D4491)	gal/min ft ²	220.8	1.20		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* TARE VALUE NOT SUBTRACTED FROM MULLEN BURST READINGS.

** THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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**GEOSYNTEC CONSULTANTS**

Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
 CONTACT: Mr. Rick Bowen
 GEOSYNTec JOB NO.: FLQ5942

CLIENT ID: Lot # 5364
 DATE TESTED: 09/25/95

INDIVIDUAL SPECIMENS										SUMMARY RESULTS					
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
121.0	116.4	122.5	119.2	121.1	117.0	118.8	122.6	120.0	118.1	MASS PER UNIT AREA (ASTM D3776)	g/m ²	119.7	2.17		
3.6	3.4	3.6	3.5	3.6	3.4	3.5	3.6	3.5	3.5		oz/yd ²	3.5	0.06		
0.54	0.50	0.51	0.53	0.59	0.56	0.57	0.51	0.57	0.56	THICKNESS (ASTM D1777)	mm	0.54	0.031		
21.3	19.7	20.1	20.9	23.2	22.0	22.4	20.1	22.4	22.0		mil	21.4	1.21		
										GRAB TENSILE STRENGTH (ASTM D4632)	lb				
159.2	151.4	145.2	165.1	169.9	168.9	161.6	175.8	172.9	143.2	RD		161.3	11.45		
159.9	160.1	139.9	156.6	151.0	146.0	144.1	162.6	141.3	189.2	XD		155.1	14.57		
										GRAB ELONGATION (ASTM D4632)	%				
78.0	69.0	73.7	86.3	87.3	87.3	87.0	91.3	81.3	67.0	RD		80.8	8.51		
90.7	74.7	81.0	83.7	83.7	76.7	79.7	91.0	76.0	102.0	XD		83.9	8.49		
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
51.0	58.0	67.0	54.0	65.0	51.0	43.0	46.0	49.0	66.0	RD		55.0	8.62		
60.0	58.0	41.0	60.0	62.0	63.0	65.0	71.0	58.0	53.0	XD		59.1	7.95		
										MULLEN BURST STRENGTH** (ASTM D3786)	psi				
182	142	139	158	156	162	179	158	179	152			161	15.1		
40.7	48.3	41.8	45.5	47.4	53.1	42.5	53.4	53.3	52.4	PUNCTURE STRENGTH (ASTM D4833)	lb				
										APPARENT OPENING SIZE (ASTM D4751)	mm	0.247	0.0219		
0.231	0.229	0.269	0.272	0.232							sieve no.**	60	N/A		
60	60	50	50	60						CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	3.002	0.0256		
3.006	2.993	3.034	2.973							FLOW RATE (ASTM D4491)	gal/min ft ²	221.0	1.88		
221.3	220.4	223.4	218.9												

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* TARE VALUE NOT SUBTRACTED FROM MULLEN BURST READINGS.

** THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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GEOSYNTec CONSULTANTS

Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTec JOB NO.: FLQ5942

CLIENT ID: Lot # 5363
DATE TESTED: 09/25/95

INDIVIDUAL SPECIMENS										SUMMARY RESULTS					
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
117.0	121.1	117.9	121.0	120.7	118.0	114.6	118.7	122.7	114.8	MASS PER UNIT AREA (ASTM D3776)	g/m ²	118.6	2.72		
3.4	3.6	3.5	3.6	3.6	3.5	3.4	3.5	3.6	3.4		oz/yd ²	3.5	0.08		
0.53	0.56	0.53	0.52	0.53	0.53	0.59	0.56	0.56	0.58	THICKNESS (ASTM D1777)	mm	0.55	0.024		
20.9	22.0	20.9	20.5	20.9	20.9	23.2	22.0	22.0	22.8		mil	21.6	0.95		
										GRAB TENSILE STRENGTH I (ASTM D4632)	lb				
162.2	143.8	164.4	142.2	160.9	156.2	151.9	161.5	161.6	145.5	RD		155.0	8.51		
145.3	151.4	151.0	151.2	152.5	148.7	143.6	150.4	149.5	157.1	XD		150.1	3.74		
										GRAB ELONGATION (ASTM D4632)	%				
50.3	82.0	89.0	68.7	62.0	73.3	62.0	92.7	70.0	72.0	RD		72.2	12.93		
78.7	54.7	60.0	68.0	54.3	62.3	59.3	66.3	76.7	71.0	XD		65.1	8.54		
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
46.0	57.0	45.0	45.0	38.0	53.0	49.0	43.0	48.0	48.0	RD		47.2	5.25		
49.1	53.0	44.7	43.2	49.7	42.7	43.8	44.0	48.0	46.8	XD		46.5	3.40		
										MULLEN BURST STRENGTH* (ASTM D3786)	psi				
175	155	163	165	177	179	154	163	199	172			170	13.3		
51.5	48.8	45.3	46.5	51.8	40.3	51.5	39.8	51.8	48.5	PUNCTURE STRENGTH (ASTM D4833)	lb				
										APPARENT OPENING SIZE (ASTM D4751)	mm	0.236	0.0046		
0.243	0.237	0.233	0.231	0.235							sieve no.**	60	N/A		
60	60	60	60	60						CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	3.037	0.0161		
										FLOW RATE (ASTM D4491)	gal/min ft ²	223.6	1.19		
3.014	3.041	3.052	3.039												
221.9	223.9	224.7	223.8												

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* TARE VALUE NOT SUBTRACTED FROM MULLEN BURST READINGS.

** THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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GEOSYNTEC CONSULTANTS

Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTEC JOB NO.: FLQ5942

CLIENT ID: Lot # 5362
DATE TESTED: 09/25/95

INDIVIDUAL SPECIMENS										SUMMARY RESULTS					
1	2	3	4	5	6	7	8	9	10	PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
118.2	120.5	119.3	120.3	118.2	120.2	120.3	117.0	119.1	119.2	MASS PER UNIT AREA (ASTM D3776)	g/m ²	119.2	1.16		
3.5	3.6	3.5	3.5	3.5	3.5	3.5	3.4	3.5	3.5		oz/yd ²	3.5	0.03		
0.53	0.56	0.54	0.53	0.51	0.50	0.54	0.50	0.54	0.52	THICKNESS (ASTM D1777)	mm	0.54	0.026		
23.2	22.0	21.3	20.9	20.1	22.0	21.3	19.7	21.3	20.5		mil	21.2	1.04		
										GRAB TENSILE STRENGTH (ASTM D4632)	lb				
157.8	167.5	154.8	168.0	171.0	164.3	173.8	181.6	195.1	165.6	RD		170.0	11.65		
150.8	154.0	161.1	148.8	156.0	160.0	146.5	137.2	153.7	144.6	XD		151.3	7.30		
										GRAB ELONGATION (ASTM D4632)	%				
62.7	64.0	75.7	76.7	82.0	70.0	80.0	84.3	83.3	69.7	RD		74.8	7.87		
82.7	89.7	92.0	77.7	82.3	90.3	87.7	89.0	85.7	84.7	XD		86.2	4.41		
										TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
49.7	44.1	51.0	53.6	53.5	55.5	43.3	49.3	48.5	51.3	RD		50.0	3.95		
57.9	56.6	54.2	52.4	51.8	56.1	55.0	62.5	65.4	43.9	XD		55.6	5.91		
										MULLEN BURST STRENGTH* (ASTM D3786)	psi				
181	166	171	163	168	190	168	180	170	160			172	9.2		
49.0	46.5	40.5	53.2	49.6	43.4	48.6	45.1	48.4	44.4	PUNCTURE STRENGTH (ASTM D4833)	lb	46.9	3.64		
0.236	0.243	0.235	0.238	0.255						APPARENT OPENING SIZE (ASTM D4751)	mm	0.241	0.0082		
60	60	60	60	50							sieve no.**	60	N/A		
3.008	3.034	3.043	3.037							CONSTANT HEAD PERMITTIVITY (ASTM D4491)	1/s	3.031	0.0155		
221.5	223.4	224.0	223.6							FLOW RATE (ASTM D4491)	gal/min ft ²	223.1	1.11		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* TARE VALUE NOT SUBTRACTED FROM MULLEN BURST READINGS.

** THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

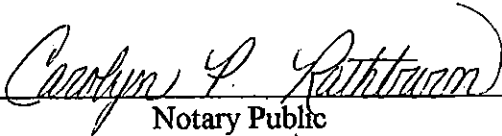
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NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 6th day of October, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: October 6, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls of Enkanet 4215-102-0000 shipped to you under manifest number 51005009 dated 10/06/95. These letters cover rolls shipped from MLN 508261, 509221, 509231, 509241, 509251, 510031, and 510041.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-050.fax



Date: October 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508261
Manifest No.: 51005009

ROLL(S) TESTED per MLN 508261

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50826901	0.411	28.4	78.5
50826905	0.403	27.5	78.3
50826912	0.400	27.0	78.3
50826913	0.412	27.9	77.5
50826916	0.396	27.7	77.5
Average	0.404	27.7	78.0
Max. Value	0.412	28.4	78.5
Min. Value	0.396	27.0	77.5
Std. Dev.	0.007	0.5	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50826905	5277	50723054	3590-5-9	10462N	E 1395	50826015	10462N	3792-5-9	O 1229
50826906	5277	50826016	3792-5-9	10462N	O 0955	50825058	10462N	3792-5-9	O 1229
50826907	5277	50723049	3590-5-9	10462N	E 1395	50825059	10462N	3792-5-9	O 1229
50826909	5277	50723055	3590-5-9	10462N	E 1395	50825051	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-374nyc



Date: October 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509221
Manifest No.: 51005009

ROLL(S) TESTED per MLN 509221

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50922903	0.400	27.7	77.5
50922906	0.406	27.4	77.5
50922910	0.409	28.0	77.8
50922916	0.409	28.0	77.5
50922925	0.405	27.8	77.5
50922928	0.413	28.0	77.5
Average	0.407	27.8	77.6
Max. Value	0.413	28.0	77.8
Min. Value	0.400	27.4	77.5
Std. Dev.	0.004	0.2	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50922904	5361	50919046	10462N	4261-5-9	Q 0903	50918009	10462N	3792-5-9	O 1229
50922905	5361	50919045	10462N	4261-5-9	Q 0903	50918016	10462N	3792-5-9	O 1229
50922906	5361	50919044	10462N	4261-5-9	Q 0903	50918017	10462N	3792-5-9	O 1229
50922907	5354	50921016	10462N	4118-5-9	Q 0903	50918010	10462N	3792-5-9	O 1229
50922925	5361	50921006	10462N	4118-5-9	Q 0903	50918037	10462N	3792-5-9	O 1229
50922928	5361	50921002	10462N	4118-5-9	Q 0903	50918036	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-375nyc



Date: October 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509231
Manifest No.: 51005009

ROLL(S) TESTED per MLN 509231

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/vd²)</u>	ASTM D3774 Core Width <u>Inches</u>
50923903	0.406	27.9	77.8
50923906	0.412	28.0	77.8
50923911	0.407	27.4	77.5
50923917	0.414	28.2	77.8
50923921	0.410	27.5	77.8
Average	0.410	27.8	77.7
Max. Value	0.414	28.2	77.8
Min. Value	0.406	27.4	77.5
Std. Dev.	0.003	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
50923901	5361	50921004	10462N	4118-5-9	Q 0903	50918045	10462N	3792-5-9	O 1229
50923902	5361	50921008	10462N	4118-5-9	Q 0903	50914057	10462N	4261-5-9	O 1229
50923903	5361	50921009	10462N	4118-5-9	Q 0903	50918039	10462N	3792-5-9	O 1229
50923904	5361	50920061	10462N	4118-5-9	Q 0903	50918051	10462N	4261-5-9	O 1229
50923905	5354	50920060	10462N	4118-5-9	Q 0903	50918050	10462N	4261-5-9	O 1229
50923906	5354	50917058	10462N	3792-5-9	Q 0903	50918048	10462N	3792-5-9	O 1229
50923907	5354	50917056	10462N	3792-5-9	O 0955	50918052	10462N	4261-5-9	O 1229
50923908	5354	50917051	10462N	3792-5-9	Q 0903	50919001	10462N	4261-5-9	O 1229
50923909	5354	50917050	10462N	3792-5-9	Q 0903	50919002	10462N	4261-5-9	O 1229
50923910	5354	50917053	10462N	3792-5-9	O 0955	50918057	10462N	4261-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-376nyc

Akzo Nobel Geosynthetics Company
1000 Laiden Road
Laiden, NY 12118
Tel: 518/832-1000
Fax: 518/832-1001
E-Mail: info@akzo-nobel.com



Date: October 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509241
Manifest No.: 51005009

ROLL(S) TESTED per MLN 509241

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50924901	0.411	27.2	77.8
50924905	0.409	27.2	77.5
50924911	0.408	27.9	77.5
50924916	0.416	28.6	77.5
50924922	0.415	28.8	77.5
Average	0.412	27.9	77.6
Max. Value	0.416	28.8	77.8
Min. Value	0.408	27.2	77.5
Std. Dev.	0.004	0.8	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50924901	5354	50830013	10462N	3792-5-9	O 0955	50920030	10462N	4261-5-9	O 1229
50924902	5361	50919011	10462N	4261-5-9	Q 0903	50920038	10462N	4118-5-9	O 1229
50924903	5361	50919013	10462N	4261-5-9	Q 0903	50920039	10462N	4118-5-9	O 1229
50924921	5354	50920050	10462N	4118-5-9	O 1229	50920049	10462N	4118-5-9	O 1229
50924922	5354	50912029	10462N	4118-5-9	O 1229	50920048	10462N	4118-5-9	O 1229
50924923	5354	50920053	10462N	4118-5-9	O 1229	50912028	10462N	4118-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-377nyc



Geosynthetics

Date: October 6, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509251
Manifest No.: 51005009

ROLL(S) TESTED per MLN 509251

ROLL No. <u>TESTED</u>	ASTM D1777	ASTM 3776	ASTM D3774
	Composite Thick. <u>Inches</u>	Mass/ Unit Area <u>Total (oz/yd²)</u>	Core Width <u>Inches</u>
50925901	0.412	27.6	77.8
50925902	0.410	27.5	77.5
50925905	0.414	28.2	78.3
50925906	0.428	28.4	77.8
50925907	0.403	26.3	78.0
Average	0.413	27.6	77.9
Max. Value	0.428	28.4	78.3
Min. Value	0.403	27.5	77.5
Std. Dev.	0.009	0.8	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number		Colback		Amoco		Amoco			
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50925901	5354	50830012	10462N	3792-5-9	O 0955	50829037	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-378nyc



Date: October 6, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510031
Manifest No.: 51005009

ROLL(S) TESTED per MLN 510031

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51003901	0.398	27.8	78.0
51003902	0.397	27.5	77.5
Average	0.398	27.7	77.8
Max. Value	0.398	27.8	78.0
Min. Value	0.397	27.5	77.5
Std. Dev.	0.001	0.2	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51003901	5313	51002043	10462N	3788-5-9	Q 1550	51003021	10462N	4118-5-9	Q 1550
51003902	5313	51002044	10462N	3788-5-9	Q 1550	51003022	10462N	4118-5-9	Q 1550

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-372nyc



Geosynthetics

Date: October 6, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510041
Manifest No.: 51005009

ROLL(S) TESTED per MLN 510041

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
51004901	0.405	27.2	77.8
51004902	0.404	27.6	78.0
51004903	0.415	27.7	78.0
51004906	0.403	27.7	78.0
51004910	0.402	28.1	77.8
51004915	0.403	28.2	77.5
51004917	0.401	28.3	77.5
51004921	0.406	27.9	77.8
Average	0.405	27.9	77.8
Max. Value	0.415	28.3	78.0
Min. Value	0.401	27.2	77.5
Std. Dev.	0.004	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51004901	5313	51003001	10462N	4118-5-9	Q 1550	51003019	10462N	4118-5-9	Q 1550
51004902	5313	51003005	10462N	4118-5-9	Q 1550	51003020	10462N	4118-5-9	Q 1550
51004903	5313	51003006	10462N	4118-5-9	Q 1550	51003023	10462N	4118-5-9	Q 1550
51004906	5313	51002042	10462N	3788-5-9	Q 1550	51003026	10462N	4118-5-9	Q 1550
51004907	5313	51002045	10462N	3788-5-9	Q 1550	51003029	10462N	4118-5-9	Q 1550
51004908	5313	51002046	10462N	3788-5-9	Q 1550	51003030	10462N	4118-5-9	Q 1550
51004909	5313	51003009	10462N	4118-5-9	Q 1550	51003027	10462N	4118-5-9	Q 1550
51004910	5313	51003010	10462N	4118-5-9	Q 1550	51003028	10462N	4118-5-9	Q 1550

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

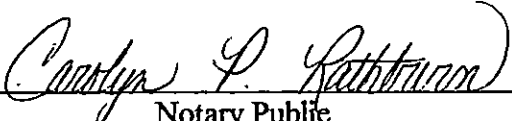
Cert-373nyc

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 10th day of October, 1995.


Notary Public

My Commission Expires May 7, 2000.



October 10, 1995

Geosynthetics

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E.

Subject: Laboratory Conformance Results for Colback Geotextile used on Enkanet 4215-102-0000, East Northport Project

Dear Steve:

On October 6, 1995 I sent you Colback ND 120 Geotextile Conformance test results for four different lots (#5357, 5364, 5362, and 5363). Lot numbers 5363 and 5364 were inadvertently marked incorrectly by GeoSyntec, and unfortunately submitted to you without noticing the error until after the material was already mailed.

Lot #5363 is actually Lot #5354. Enclosed is the corrected copy from GeoSyntec Consultants. Likewise, Lot # 5364 is actually Lot #5361. Also, please find the corrected copy. Please discard the sheets labeled Lot #5363 and Lot #5364.

These lots (#5354 and 5361) meet the revised Minimum Roll Average Values project specifications for the nonwoven, heat-bonded geotextile recommended by Mr. Cargill in his letter dated May 4, 1995 addressed to Mr. Gladysz of Cashin Associates, P.C.

These lots will be used for current and future production of finished rolls of Enkanet 4215-102-0000. Please note that all Letters of Certification from Akzo Nobel include the Colback lot # that was used for each finished roll of Enkanet 4215-102-0000 shipped to the project site.

I certify that all test values are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-384.nyc



GEOSYNTec CONSULTANTS
Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEOSYNTec JOB NO.: FLQ5942

CLIENT ID: Lot # 5361 / Roll # 53642005
DATE TESTED: 09/25/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
121.0	116.4	122.5	119.2	121.1	117.0	118.8	122.6	120.0	118.1
3.6	3.4	3.6	3.5	3.6	3.4	3.5	3.6	3.5	3.5
0.54	0.50	0.51	0.53	0.59	0.56	0.57	0.51	0.57	0.56
21.3	19.7	20.1	20.9	23.2	22.0	22.4	20.1	22.4	22.0
159.2	151.4	145.2	165.1	169.9	168.9	161.6	175.8	172.9	143.2
159.9	160.1	139.9	156.6	151.0	146.0	144.1	162.6	141.3	189.2
78.0	69.0	73.7	86.3	87.3	87.3	87.0	91.3	81.3	67.0
90.7	74.7	81.0	83.7	83.7	76.7	79.7	91.0	76.0	102.0
51.0	58.0	67.0	54.0	65.0	51.0	43.0	46.0	49.0	66.0
60.0	58.0	41.0	60.0	62.0	63.0	65.0	71.0	58.0	53.0
182	142	139	158	156	162	179	158	179	152
40.7	48.3	41.8	45.5	47.4	53.1	42.5	53.4	53.3	52.4
0.231	0.229	0.269	0.272	0.232					
60	60	50	50	60					
3.006	2.993	3.034	2.973						
221.3	220.4	223.4	218.9						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ²	119.7	2.17		
	oz/yd ²	3.5	0.06		
THICKNESS (ASTM D1777)	mm	0.54	0.031		
	mil	21.4	1.21		
GRAB TENSILE STRENGTHII (ASTM D4632)	lb				
RD		161.3	11.45		
XD		155.1	14.57		
GRAB ELONGATION (ASTM D4632)	%				
RD		80.8	8.51		
XD		83.9	8.49		
TRAPEZOID TEARING STRENGTHII (ASTM D4533)	lb				
RD		55.0	8.62		
XD		59.1	7.95		
MULLEN BURST STRENGTHII* (ASTM D3786)	psi	161	15.1		
PUNCTURE STRENGTHII (ASTM D4833)	lb	47.8	5.07		
APPARENT OPENING SIZE (ASTM D4751)	mm sieve no.**	0.247 60	0.0219 N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	3.002	0.0256		
FLOW RATE (ASTM D4491)	gal/min ft ²	221.0	1.88		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* TARE VALUE NOT SUBTRACTED FROM MULLEN BURST READINGS.

** THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

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**GEO SYNTec CONSULTANTS**

Materials Testing Laboratory

GEOTEXTILE TEST RESULTS

CLIENT: Akzo Nobel Geosynthetics Co.
CONTACT: Mr. Rick Bowen
GEO SYNTec JOB NO.: FLQ5942

CLIENT ID: Lot # 5354 / Roll # 53632029
DATE TESTED: 09/25/95

INDIVIDUAL SPECIMENS

1	2	3	4	5	6	7	8	9	10
117.0	121.1	117.9	121.0	120.7	118.0	114.6	118.7	122.7	114.8
3.4	3.6	3.5	3.6	3.6	3.5	3.4	3.5	3.6	3.4
0.53	0.56	0.53	0.52	0.53	0.53	0.59	0.56	0.56	0.58
20.9	22.0	20.9	20.5	20.9	20.9	23.2	22.0	22.0	22.8
162.2	143.8	164.4	142.2	160.9	156.2	151.9	161.5	161.6	145.5
145.3	151.4	151.0	151.2	152.5	148.7	143.6	150.4	149.5	157.1
50.3	82.0	89.0	68.7	62.0	73.3	62.0	92.7	70.0	72.0
78.7	54.7	60.0	68.0	54.3	62.3	59.3	66.3	76.7	71.0
46.0	57.0	45.0	45.0	38.0	53.0	49.0	43.0	48.0	48.0
49.1	53.0	44.7	43.2	49.7	42.7	43.8	44.0	48.0	46.8
175	155	163	165	177	179	154	163	199	172
51.5	48.8	45.3	46.5	51.8	40.3	51.5	39.8	51.8	48.5
0.243	0.237	0.233	0.231	0.235					
60	60	60	60	60					
3.014	3.041	3.052	3.039						
221.9	223.9	224.7	223.8						

SUMMARY RESULTS

PROPERTY (STANDARD)	UNIT	MEAN	STD	SPEC.	PASS/FAIL
MASS PER UNIT AREA (ASTM D3776)	g/m ²	118.6	2.72		
	oz/yd ²	3.5	0.08		
THICKNESS (ASTM D1777)	mm	0.55	0.024		
	mil	21.6	0.95		
GRAB TENSILE STRENGTH (ASTM D4632)	lb				
RD		155.0	8.51		
XD		150.1	3.74		
GRAB ELONGATION (ASTM D4632)	%				
RD		72.2	12.93		
XD		65.1	8.54		
TRAPEZOID TEARING STRENGTH (ASTM D4533)	lb				
RD		47.2	5.25		
XD		46.5	3.40		
MULLEN BURST STRENGTH* (ASTM D3786)	psi	170	13.3		
PUNCTURE STRENGTH (ASTM D4833)	lb	47.6	4.58		
APPARENT OPENING SIZE (ASTM D4751)	mm	0.236	0.0046		
	sieve no.**	60	N/A		
CONSTANT HEAD PERMITTIVITY (ASTM D4491)	l/s	3.037	0.0161		
FLOW RATE (ASTM D4491)	gal/min ft ²	223.6	1.19		

COMMENTS:

RD = ROLL DIRECTION

XD = CROSS-ROLL DIRECTION

* TARE VALUE NOT SUBTRACTED FROM MULLEN BURST READINGS.

** THE REPORTED MEAN SIEVE NO. CORRESPONDS TO THE REPORTED MEAN GLASS BEAD DIAMETER AND IS NOT THE ARITHMETIC MEAN OF THE INDIVIDUAL SIEVE NUMBERS.

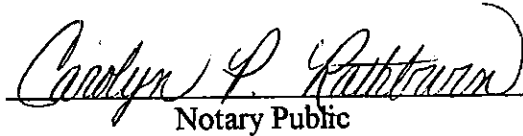
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NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 13th day of October, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: October 13, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls of Enkanet 4215-102-0000 shipped to you under manifest number 51012008 dated 10/13/95. These letters cover rolls shipped from MLN 508011, 509041, 509191, 509221, 510041, 510051, and 510111.

You will receive the hard copies of these results by regular mail.

Sincerely,



Rick Bowen

Brix-051.fax



Geosynthetics

Date: October 13, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 508011
Manifest No.: 51012008

ROLL(S) TESTED per MLN 508011

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50801901	0.426	29.1	77.5
50801903	0.414	25.6	78.3
Average	0.420	27.4	77.9
Max. Value	0.426	29.1	78.3
Min. Value	0.414	25.6	77.5
Std. Dev.	0.008	2.5	0.6

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50801904	5277	50723036	10462N	3590-5-9	E1395	50702048	10462N	4714-4-9	K1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-385.nyc



Date: October 13, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509041
Manifest No.: 51012008

ROLL(S) TESTED per MLN 509041

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50904902	0.407	26.7	77.5
50904905	0.408	27.4	77.8
50904910	0.404	26.1	77.8
50904913	0.417	27.1	78.0
50904918	0.408	28.0	77.5
50904922	0.397	26.7	78.0
50904925	0.405	27.6	78.0
Average	0.407	27.1	77.8
Max. Value	0.417	28.0	78.0
Min. Value	0.397	26.1	77.5
Std. Dev.	0.006	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50904914	5282	50831006	10462N	3792-5-9	O 0955	50830037	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-386nyc

40150054
P Refractive
S 3 10462N
S 2 17249
S 1 10462N
S 1 10462N



Geosynthetics

Date: October 12, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509191
Manifest No.: 51012008

ROLL(S) TESTED per MLN 509191

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50919903	0.408	28.1	77.8
50919906	0.407	28.1	77.5
50919911	0.413	28.5	77.5
50919916	0.406	28.1	78.0
50919921	0.408	28.2	78.0
Average	0.408	28.2	77.8
Max. Value	0.413	28.5	78.0
Min. Value	0.406	28.1	77.5
Std. Dev.	0.003	0.2	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50919901	5357	50917028	10462N	3792-5-9	O 0955	50918059	10462N	4261-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-387nyc



Geosynthetics

Date: October 13, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509221
Manifest No.: 51012008

ROLL(S) TESTED per MLN 509221

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50922903	0.400	27.7	77.5
50922906	0.406	27.4	77.5
50922910	0.409	28.0	77.8
50922916	0.409	28.0	77.5
50922925	0.405	27.8	77.5
50922928	0.413	28.0	77.5
Average	0.407	27.8	77.6
Max. Value	0.413	28.0	77.8
Min. Value	0.400	27.4	77.5
Std. Dev.	0.004	0.2	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015					
Roll Number	Colback				Amoco					Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50922931	5361	50921001	10462N	4118-5-9	Q 0903	50918046	10462N	3792-5-9	O 1229	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-388.nyc



Date: October 13, 1995

Geosynthetics

**LETTER of CERTIFICATION
PHYSICAL TEST RESULTS**

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510041
Manifest No.: 51012008

ROLL(S) TESTED per MLN 510041

ROLL No.	ASTM D1777 Composite Thick.	ASTM D3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
51004901	0.405	27.2	77.8
51004902	0.404	27.6	78.0
51004903	0.415	27.7	78.0
51004906	0.403	27.7	78.0
51004910	0.402	28.1	77.8
51004915	0.403	28.2	77.5
51004917	0.401	28.3	77.5
51004921	0.406	27.9	77.8
Average	0.405	27.9	77.8
Max. Value	0.415	28.3	78.0
Min. Value	0.401	27.2	77.5
Std. Dev.	0.004	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback					Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
51004911	5313	51003003	10462N	4118-5-9	Q 1550	51003033	10462N	4118-5-9	Q 1550	
51004912	5313	51003013	10462N	4118-5-9	Q 1550	51003031	10462N	4118-5-9	Q 1550	
51004914	5354	51003017	10462N	4118-5-9	Q 1550	51003055	10462N	4118-5-9	O 1229	
51004915	5354	51003018	10462N	4118-5-9	Q 1550	51004001	10462N	4118-5-9	O 1229	
51004917	5354	51003016	10462N	4118-5-9	Q 1550	51004013	10462N	4118-5-9	O 1229	
51004918	5354	51003015	10462N	4118-5-9	Q 1550	51004018	10462N	4118-5-9	O 1229	
51004919	5354	51004032	10462N	4118-5-9	K 1490	51004019	10462N	4118-5-9	O 1229	
51004920	5354	51004031	10462N	4118-5-9	K 1490	51004017	10462N	4118-5-9	O 1229	
51004921	5354	51003007	10462N	4118-5-9	Q 1550	51004016	10462N	4118-5-9	O 1229	
51004922	5354	54003008	10462N	4118-5-9	Q 1550	51004012	10462N	4118-5-9	O 1229	

R.D. Bowen

Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-389nyc

10-17-68
 B. Budget
 Court
 Ex 7249
 ME 2830
 10-17-68



Date: October 13, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510051
Manifest No.: 51012008

ROLL(S) TESTED per MLN 510051

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51005902	0.406	27.6	77.8
51005906	0.401	27.7	77.5
51005910	0.399	27.1	77.5
51005912	0.410	27.5	77.8
51005918	0.404	27.2	77.8
Average	0.404	27.4	77.7
Max. Value	0.410	27.7	77.8
Min. Value	0.399	27.1	77.5
Std. Dev.	0.004	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
51005901	5354	51003011	10462N	4118-5-9	Q 1550	51004020	10462N	4118-5-9	K 1490
51005902	5354	51003012	10462N	4118-5-9	Q 1550	51004003	10462N	4118-5-9	Q 1550
51005903	5354	51004034	10462N	4118-5-9	K 1490	51003034	10462N	4118-5-9	Q 1550
51005904	5354	51004033	10462N	4118-5-9	K 1490	51003037	10462N	4118-5-9	Q 1550
51005905	5354	51004036	10462N	4118-5-9	K 1490	51003038	10462N	4118-5-9	Q 1550
51005906	5354	51004035	10462N	4118-5-9	K 1490	51003035	10462N	4118-5-9	Q 1550
51005907	5354	51004037	10462N	4118-5-9	K 1490	51003036	10462N	4118-5-9	Q 1550
51005908	5354	51004038	10462N	4118-5-9	K 1490	51003041	10462N	4118-5-9	O 1229
51005911	5354	51004039	10462N	4118-5-9	K 1490	51003040	10462N	4118-5-9	O 1229
51005912	5354	51004040	10462N	4118-5-9	K 1490	51004004	10462N	4118-5-9	Q 1550
51005913	5354	51004042	10462N	4118-5-9	K 1490	51004005	10462N	4118-5-9	Q 1550
51005914	5354	51004044	10462N	4118-5-9	K 1490	51004010	10462N	4118-5-9	O 1229
51005916	5354	51004043	10462N	4118-5-9	K 1490	51004006	10462N	4118-5-9	O 1229
51005917	5354	51004045	10462N	4118-5-9	K 1490	51004007	10462N	4118-5-9	O 1229
51005918	5354	51004046	10462N	4118-5-9	K 1490	51004015	10462N	4118-5-9	O 1229
51005919	5354	51004047	10462N	4118-5-9	K 1490	51004014	10462N	4118-5-9	O 1229


R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-390.nyc



Date: October 13, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510111
Manifest No.: 51012008

ROLL(S) TESTED per MLN 510111

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51011901	0.420	27.6	77.5
51011903	0.408	27.7	77.5
51011907	0.408	28.5	77.5
51011908	0.407	28.6	78.3
Average	0.411	28.1	77.7
Max. Value	0.420	28.6	78.3
Min. Value	0.407	27.6	77.5
Std. Dev.	0.006	0.5	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51011901	5313	51004057	10462N	4118-5-9	K 1490	51003044	10462N	4118-5-9	O 1229
51011902	5313	51005004	10462N	4118-5-9	K 1490	51003047	10462N	4118-5-9	O 1229
51011903	5313	51005005	10462N	4118-5-9	K 1490	51003051	10462N	4118-5-9	O 1229
51011904	5313	51005002	10462N	4118-5-9	K 1490	51003052	10462N	4118-5-9	O 1229
51011905	5313	51005003	10462N	4118-5-9	K 1490	51004022	10462N	4118-5-9	K 1490
51011907	5313	51004056	10462N	4118-5-9	K 1490	51003054	10462N	4118-5-9	O 1229
51011908	5313	51005015	10462N	4118-5-9	K 1490	51004021	10462N	4118-5-9	K 1490

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-392.nyc

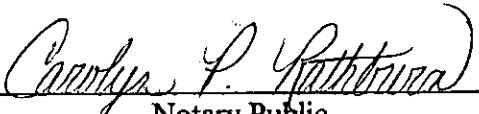
51011901
51011902
51011903
51011904
51011905
51011907
51011908

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 19th day of October, 1995.



Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: October 19, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 9

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 30 rolls of Enkanet 4215-102-0000 shipped to you under manifest number 51019001 dated 10/19/95. These letters cover rolls shipped from MLN 506071, 509041, 510051, 510061, 510121, 510131, and 510141.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-052.fax



Geosynthetics

Date: October 19, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506071
Manifest No.: 51019001

ROLL(S) TESTED per MLN 506071

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
TESTED	Composite Thick.	Mass/ Unit Area	CORE WIDTH
	Inches	Total (oz/vd ²)	Inches
50607903	0.414	28.1	77.8
50607907	0.422	27.9	78.0
50607908	0.426	27.7	78.0
50607911	0.402	26.9	78.0
Average	0.416	27.7	77.9
Max. Value	0.426	28.1	78.0
Min. Value	0.402	26.9	77.8
Std. Dev.	0.011	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50607902	5555	50512062	10462N	3439-5-9	E1338	50606009	10462N	3439-5-9	I 1712

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-401.nyc



Geosynthetics

Date: October 19, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509041
Manifest No.: 51019001

ROLL(S) TESTED per MLN 509041

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50904902	0.407	26.7	77.5
50904905	0.408	27.4	77.8
50904910	0.404	26.1	77.8
50904913	0.417	27.1	78.0
50904918	0.408	28.0	77.5
50904922	0.397	26.7	78.0
50904925	0.405	27.6	78.0
Average	0.407	27.1	77.8
Max. Value	0.417	28.0	78.0
Min. Value	0.397	26.1	77.5
Std. Dev.	0.006	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50904926	5282	50828036	10462N	3792-5-9	O 0955	50827052	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-400nyc



Date: October 19, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510051
Manifest No.: 51019001

ROLL(S) TESTED per MLN 510051

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51005902	0.406	27.6	77.8
51005906	0.401	27.7	77.5
51005910	0.399	27.1	77.5
51005912	0.410	27.5	77.8
51005918	0.404	27.2	77.8
Average	0.404	27.4	77.7
Max. Value	0.410	27.7	77.8
Min. Value	0.399	27.1	77.5
Std. Dev.	0.004	0.3	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51005910	5354	51004029	10462N	4118-5-9	K 1490	51003039	10462N	4118-5-9	Q 1550

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-399nyc



Geosynthetics

October 19, 1995

J. D. Posillico Inc.
101 Townline Road
East Northport, NY 11731

Attn: Stephen Brix, P.E., Cashen & Associates
David Williams, GeoSyntec Consultants

Subject: Certification for HDPE resin used on Enkanet 4215-102-0000, East Northport Project

Gentlemen:

Attached is a Certificate of Analysis from the resin manufacturer, Dow Chemical Company, via our distributor, General Polymers, for HDPE resin type 10462N, lot number 4260-5-9.

Resin from both Lot Numbers will be used in the production of Enkanet Type 4215-102-0000 rolls destined for shipment to the East Northport site. As has been customary in the past, all resin lot numbers will be noted on the Letter of Certification for finished rolls of Enkanet 4215-102-0000.

I certify that the test values for Melt Index and Density are accurate to the best of our knowledge and were obtained using established ASTM test methods.

Sincerely,

Mr. R. D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-R42.nyc



Dow U.S.A.

The Dow Chemical Company
P.O. Box 150
Plaquemine, Louisiana 70765-0150

SEPTEMBER 22, 1995

From: DOW CHEMICAL - Louisiana Division

To: GAIL SMITH

1-704-391-6826

C E R T I F I C A T E O F A N A L Y S I S

THE FOLLOWING IS THE INFO REQUESTED ON THE MATERIAL SHIPPED
TO GENERAL POLYMERS <8751752>

LOCATION	CHARLOTTE	NC	28230
DOW NO.	7481866		
CUST ORDER NO	010314		
CUST CODE			
SHIPPED	092295		
VIA	DOWX 20697		
ROUTE	MP/NEWOR/CSXT		
TYPE	HDPE 10462N		
GROSS	259,100		
TARE	66,100		
NET	193,000		
LOTS	95082142609		
PKG. LOT NO.	QP 4260-5-9		
MELT INDEX	9.55		
DENSITY	.9626		

THE ABOVE LOT(S) MEET THE DOW SALES SPECIFICATION
FOR THE TYPE INDICATED.

MIKE NEWSOM
DOW CHEMICAL USA
LOUISIANA DIVISION
POLY C BLDG. 8601
PLAQUEMINE, LA



Geosynthetics

Date: October 19, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510061
Manifest No.: 51019001

ROLL(S) TESTED per MLN 510061

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51006901	0.406	27.4	78.0
51006903	0.411	28.4	77.8
51006905	0.411	27.8	78.5
51006906	0.405	27.2	78.0
Average	0.408	27.7	78.1
Max. Value	0.411	28.4	78.5
Min. Value	0.405	27.2	77.8
Std. Dev.	0.003	0.5	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51006901	5354	51004048	10462N	4118-5-9	K1490	51004008	10462N	4118-5-9	O 1229
51006903	5354	51004050	10462N	4118-5-9	K1490	51003045	10462N	4118-5-9	O 1229
51006904	5313	51004053	10462N	4118-5-9	K1490	51003046	10462N	4118-5-9	O 1229
51006906	5313	51004054	10462N	4118-5-9	K1490	51003050	10462N	4118-5-9	O 1229
51006907	5313	51004052	10462N	4118-5-9	K1490	51003043	10462N	4118-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-398nyc



Date: October 19, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510121
Manifest No.: 51019001

ROLL(S) TESTED per MLN 510121

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51012901	0.397	27.8	78.5
51012902	0.404	28.4	77.8
51012903	0.401	27.4	78.5
51012904	0.408	27.4	77.9
51012905	0.402	27.5	77.5
Average	0.402	27.7	78.0
Max. Value	0.408	28.4	78.5
Min. Value	0.397	27.4	77.5
Std. Dev.	0.004	0.4	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
51012901	5313	51005001	10462N	4118-5-9	K 1490	51004024	10462N	4118-5-9	L 0007
51012902	5313	51005012	10462N	4118-5-9	K 1490	51004023	10462N	4118-5-9	K 1490
51012903	5313	51005013	10462N	4118-5-9	K 1490	51004026	10462N	4118-5-9	L 0007
51012904	5313	51005006	10462N	4118-5-9	K 1490	51004025	10462N	4118-5-9	L 0007
51012905	5313	51005007	10462N	4118-5-9	K 1490	51004027	10462N	4118-5-9	L 0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-397.nyc



Geosynthetics

Date: October 19, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510131
Manifest No.: 51019001

ROLL(S) TESTED per MLN 510131

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51013901	0.402	26.9	77.8
51013904	0.406	27.4	78.0
51013907	0.416	27.3	78.0
51013910	0.422	27.1	77.5
51013913	0.436	29.0	78.0
Average	0.416	27.5	77.9
Max. Value	0.436	29.0	78.0
Min. Value	0.402	27.1	77.5
Std. Dev.	0.014	0.8	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51013901	5391	51005011	10462N	4118-5-9	K 1490	50608003	10462N	3439-5-9	I 1712
51013902	5391	50617015	10462N	3439-5-9	M 1096	50608017	10462N	3439-5-9	I 1712
51013903	5391	50614055	10462N	3439-5-9	E 1395	50912018	10462N	3792-5-9	O 1229
51013904	5391	50913021	10462N	4118-5-9	O 0955	50912021	10462N	3792-5-9	O 1229
51013905	5391	50913022	10462N	4118-5-9	O 0955	50415009	10062N	1011733	E 1375
51013906	5391	51005010	10462N	4118-5-9	K 1490	50912019	10462N	3792-5-9	O 1229
51013907	5391	50613030	10462N	3439-5-9	E 1338	50413007	10262N	544243	E 1375
51013908	5391	50911015	10462N	3792-5-9	O 0955	51003048	10462N	4118-5-9	O 1229
51013909	5391	50913020	10462N	4118-5-9	K 1490	50912020	10462N	3792-5-9	O 1229
51013910	5391	51005008	10462N	4118-5-9	K 1490	50416001	10062N	554843	E 1375
51013911	5391	51005009	10462N	4118-5-9	O 0955	50415003	10062N	1011733	E 1375
51013912	5391	50913023	10462N	4118-5-9	O 0955	50414011	10262N	544243	E 1375
51013913	5391	50913024	10462N	4118-5-9	O 0955	50414005	10262N	544243	E 1375
51013914	5391	50913019	10462N	4118-5-9	O 0955	50826005	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-394.nyc



Date: October 19, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510141
Manifest No.: 51019001

ROLL(S) TESTED per MLN 510141

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
51014901	0.418	26.9	78.3
51014903	0.417	27.1	77.5
51014904	0.422	27.1	78.0
Average	0.419	27.0	77.9
Max. Value	0.422	27.1	78.3
Min. Value	0.417	26.9	77.5
Std. Dev.	0.003	0.1	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015					
Roll Number	Colback					Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	Amoco
51014901	5391	50419022	10462N	3139-5-9	E 1338	50413001	10262N	544243	E 1375	
51014903	5391	50514012	10462N	3439-5-9	E 1338	50414016	10262N	544243	E1375	
51014904	5391	51005016	10462N	4118-5-9	K 1490	50416002	10062N	554843	E 1375	

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

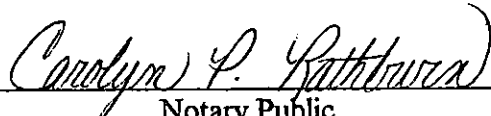
Cert-396.nyc

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 19th day of October, 1995.



Notary Public

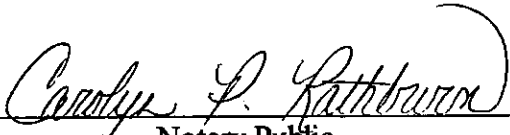
My Commission Expires May 7, 2000.

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 27th day of October, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: October 27, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 10

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls of Enkanet 4215-102-0000 shipped to you under manifest number 51026013 dated 10/27/95. These letters cover rolls shipped from MLN 506071, 506221, 507301, 509051, 510231, 510241, and 510251.

You will receive the hard copies of these results by regular mail.

Sincerely,



Rick Bowen

Brix-053.fax



Geosynthetics

Date: October 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506071
Manifest No.: 51026013

ROLL(S) TESTED per MLN 506071

ROLL No.	ASTM D1777	ASTM 3776	ASTM D3774
<u>TESTED</u>	<u>Composite Thick</u>	<u>Mass/ Unit Area</u>	<u>CORE WIDTH</u>
	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50607903	0.414	28.1	77.8
50607907	0.422	27.9	78.0
50607908	0.426	27.7	78.0
50607911	0.402	26.9	78.0
Average	0.416	27.7	77.9
Max. Value	0.426	28.1	78.0
Min. Value	0.402	26.9	77.8
Std. Dev.	0.011	0.5	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215		Single Width Source Rolls of Enkanet 4015								
Roll Number	Colback	Amoco								
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #	
50607903	5555	50513002	10462N	3439-5-9	E1338	50606024	10462N	3439-5-9	I1712	

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-411.nyc



Geosynthetics

Date: October 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 506221
Manifest No.: 51026013

ROLL(S) TESTED per MLN 506221

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
50622901	0.406	27.9	77.8
50622904	0.419	27.6	78.0
50622910	0.426	28.1	78.0
50622916	0.421	27.5	77.8
Average	0.418	27.8	77.9
Max. Value	0.426	28.1	78.0
Min. Value	0.406	27.5	77.8
Std. Dev.	0.009	0.3	0.1

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50622903	5252	50615015	10462N	3439-5-9	E1395	50609003	10462N	3439-5-9	I1712

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-410.nyc



Date: October 27, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 507301
Manifest No.: 51026013

ROLL(S) TESTED per MLN 507301

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50730903	0.419	28.7	77.5
50730906	0.417	28.3	77.8
50730908	0.423	28.4	78.0
50730910	0.417	28.8	78.0
Average	0.419	28.6	77.8
Max. Value	0.423	28.8	78.0
Min. Value	0.417	28.3	77.5
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50730904	5277	50721014	10462N	3590-5-9	K1490	50726014	10462N	3139-5-9	L0007

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-409nyc



Date: October 27, 1995 .

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 509051
Manifest No.: 51026013

ROLL(S) TESTED per MLN 509051

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
50905902	0.401	27.0	77.8
50905906	0.403	27.6	78.0
50905910	0.404	26.9	77.8
50905914	0.406	27.4	77.5
50905917	0.408	27.5	77.5
50905920	0.399	26.7	77.8
Average	0.404	27.2	77.7
Max. Value	0.408	27.6	78.0
Min. Value	0.399	26.7	77.5
Std. Dev.	0.003	0.4	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
50905904	5287	50828030	10462N	3792-5-9	O 0955	50827053	10462N	3792-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-407nyc



1. James H. Thompson
 2. 100 Ridgemoor Park
 3. 100 East Court
 4. 100 East 1st St.
 5. 100 East 1st St.
 6. 100 East 1st St.
 7. 100 East 1st St.
 8. 100 East 1st St.
 9. 100 East 1st St.
 10. 100 East 1st St.



Geosynthetics

Date: October 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510241
Manifest No.: 51026013

ROLL(S) TESTED per MLN 510241

ROLL No. <u>TESTED</u>	ASTM D1777	ASTM 3776	ASTM D3774
	Composite Thick. <u>Inches</u>	Mass/ Unit Area <u>Total (oz/yd²)</u>	Core Width <u>Inches</u>
51024901	0.394	27.6	78.5
51024903	0.399	27.5	78.5
51024907	0.399	27.4	78.3
51024911	0.402	27.8	78.0
Average	0.399	27.6	78.3
Max. Value	0.402	27.8	78.5
Min. Value	0.394	27.4	78.0
Std. Dev.	0.003	0.2	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51024903	5391	51005028	10462N	4118-5-9	K 1490	51024007	10462N	4118-5-9	Q 1550
51024904	5391	51005027	10462N	4118-5-9	K 1490	51024011	10462N	4118-5-9	Q 1550
51024907	5391	51005019	10462N	4118-5-9	K 1490	51023005	10462N	4118-5-9	Q 1550
51024909	5391	50614033	10462N	3439-5-9	E 1395	51023010	10462N	4118-5-9	Q 1550
51024910	5391	51024022	10462N	4118-5-9	Q 1550	51023011	10462N	4118-5-9	Q 1550
51024911	5391	51024025	10462N	4118-5-9	Q 1550	51023012	10462N	4118-5-9	Q 1550

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-406.nyc



Geosynthetics

Date: October 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510251
Manifest No.: 51026013

ROLL(S) TESTED per MLN 510251

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51025901	0.399	27.7	79.3
51025903	0.404	28.6	78.8
51025907	0.403	28.2	78.5
51025911	0.404	28.9	79.0
51025915	0.405	28.5	78.8
51025919	0.404	28.2	78.5
51025923	0.403	28.0	79.0
51025927	0.403	28.3	78.8
Average	0.403	28.3	78.8
Max. Value	0.405	28.9	79.3
Min. Value	0.399	27.7	78.5
Std. Dev.	0.002	0.4	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
51025901	5391	51024024	10462N	4118-5-9	Q 1550	51025001	10462N	4118-5-9	Q 1550
51025902	5391	51024023	10462N	4118-5-9	Q 1550	51025002	10462N	4118-5-9	Q 1550
51025903	5391	51024029	10462N	4118-5-9	K 1490	51024008	10462N	4118-5-9	Q 1550
51025904	5391	51024035	10462N	4118-5-9	K 1490	51024014	10462N	4118-5-9	Q 1550
51025905	5391	51024036	10462N	4118-5-9	K 1490	51024015	10462N	4118-5-9	Q 1550
51025906	5391	51024031	10462N	4118-5-9	K 1490	51024004	10462N	4118-5-9	Q 1550
51025907	5391	51024032	10462N	4118-5-9	K 1490	51024010	10462N	4118-5-9	Q 1550
51025908	5391	51024027	10462N	4118-5-9	K 1490	51024003	10462N	4118-5-9	Q 1550
51025909	5391	51024030	10462N	4118-5-9	K 1490	51024009	10462N	4118-5-9	Q 1550
51025910	5391	51024037	10462N	4118-5-9	K 1490	51024006	10462N	4118-5-9	Q 1550
51025911	5391	51034028	10462N	4118-5-9	K 1490	51024018	10462N	4118-5-9	Q 1550
51025912	5391	51024038	10462N	4118-5-9	K 1490	51024013	10462N	4118-5-9	Q 1550
51025913	5391	51024033	10462N	4118-5-9	K 1490	51024012	10462N	4118-5-9	Q 1550
51025915	5391	51024034	10462N	4118-5-9	K 1490	51025027	10462N	4118-5-9	Q 1550
51025916	5391	51024040	10462N	4118-5-9	K 1490	51025030	10462N	4118-5-9	Q 1550

AKZO NOBEL Geosynthetics Co., Inc.
P.O. Box 215, Roll, California 94588
Bridgeland Circle
P.O. Box 215
Roll, California 94588
Tel: (916) 392-1100
Fax: (916) 392-1101



Geosynthetics

Date: October 27, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510251
Manifest No.: 51026013

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number Colback					Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
51025917	5391	51024043	10462N	4118-5-9	K 1490	51025031	10462N	4118-5-9	Q 1550
51025918	5391	51024044	10462N	4118-5-9	K 1490	51024019	10462N	4118-5-9	Q 1550
51025919	5391	51024041	10462N	4118-5-9	K 1490	51024020	10462N	4118-5-9	Q 1550
51025920	5391	51024042	10462N	4118-5-9	K 1490	51025028	10462N	4118-5-9	Q 1550
51025921	5391	51024045	10462N	4118-5-9	K 1490	51025029	10462N	4118-5-9	Q 1550
51025922	5391	51024046	10462N	4118-5-9	K 1490	51024021	10462N	4118-5-9	Q 1550
51025923	5391	51024051	10462N	4118-5-9	K 1490	51024017	10462N	4118-5-9	Q 1550
51025925	5391	51024047	10462N	4118-5-9	K 1490	51025023	10462N	4118-5-9	Q 1550
51025926	5391	51024048	10462N	4118-5-9	Q 1550	51025024	10462N	4118-5-9	Q 1550
51025927	5391	51024053	10462N	4118-5-9	K 1490	51025025	10462N	4118-5-9	Q 1550

Mr. R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

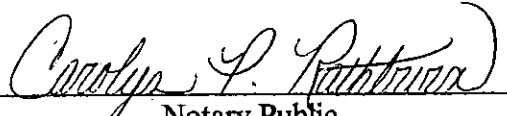
Cert-405.nyc

NORTH CAROLINA

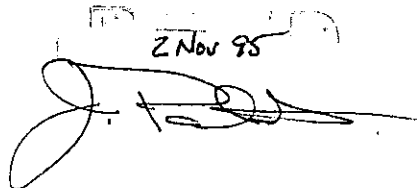
BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 31ST day of OCTOBER, 1995.


Notary Public

My Commission Expires May 7, 2000.


2 Nov 95



Geosynthetics

MEMORANDUM

Date: October 31, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009

Tel: (704) 665-5041

To: Cashen & Associates

Attention: Steve BRIX

Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 5

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls of Enkanet 4215-102-0000 shipped to you under manifest number 51030005 dated 10/31/95. These letters cover rolls shipped from MLN 510261 and 510271.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-054.fax



Date: October 31, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510261
Manifest No.: 51030005

ROLL(S) TESTED per MLN 510261

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick. <u>Inches</u>	ASTM 3776 Mass/ Unit Area <u>Total (oz/yd²)</u>	ASTM D3774 Core Width <u>Inches</u>
51026901	0.403	28.7	78.3
51026904	0.400	27.4	78.5
51026907	0.404	28.6	78.0
51026910	0.411	28.5	79.0
51026913	0.410	27.7	78.8
51026918	0.402	28.1	78.3
51026923	0.407	28.6	78.3
51026926	0.405	28.2	78.5
Average	0.405	28.2	78.5
Max. Value	0.411	28.7	79.0
Min. Value	0.400	27.4	78.0
Std. Dev.	0.004	0.5	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51026901	5391	51024054	10462N	4118-5-9	K 1490	51026032	10462N	4118-5-9	Q 1550
51026902	5391	51024049	10462N	4118-5-9	Q 1550	51026001	10462N	4118-5-9	Q 1550
51026903	5391	51024050	10462N	4118-5-9	K 1490	51025064	10462N	4118-5-9	Q 1550
51026904	5391	51024057	10462N	4118-5-9	K 1490	51025033	10462N	4118-5-9	Q 1550
51026905	5391	51024058	10462N	4118-5-9	K 1490	51025040	10462N	4118-5-9	Q 1550
51026906	5391	51024055	10462N	4118-5-9	K 1490	51025041	10462N	4118-5-9	Q 1550
51026907	5391	51024056	10462N	4118-5-9	K 1490	51025036	10462N	4118-5-9	Q 1550
51026908	5391	51025002	10462N	4118-5-9	K 1490	51025037	10462N	4118-5-9	Q 1550
51026909	5391	51025001	10462N	4118-5-9	K 1490	51026011	10462N	4118-5-9	Q 1550
51026910	5393	51025004	10462N	4118-5-9	K 1490	51026010	10462N	4118-5-9	Q 1550
51026911	5393	51024059	10462N	4118-5-9	K 1490	51025047	10462N	4118-5-9	Q 1550
51026912	5393	51025003	10462N	4118-5-9	K 1490	51025036	10462N	4118-5-9	Q 1550
51026913	5393	51024060	10462N	4118-5-9	K 1490	51025007	10462N	4118-5-9	Q 1550
51026914	5393	51025006	10462N	4118-5-9	K 1490	51026006	10462N	4118-5-9	Q 1550
51026915	5393	51025005	10462N	4118-5-9	K 1490	51025038	10462N	4118-5-9	Q 1550
51026916	5393	51025012	10462N	4118-5-9	K 1490	51025039	10462N	4118-5-9	Q 1550



Date: October 31, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510261
Manifest No.: 51030005

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51026917	5391	51025008	10462N	4118-5-9	K 1490	51025042	10462N	4118-5-9	Q 1550
51026918	5391	51025011	10462N	4118-5-9	K 1490	51025043	10462N	4118-5-9	Q 1550
51026919	5391	51025007	10462N	4118-5-9	K 1490	51025034	10462N	4118-5-9	Q 1550
51026920	5391	51025014	10462N	4118-5-9	K 1490	51025046	10462N	4118-5-9	Q 1550
51026921	5391	51025013	10462N	4118-5-9	K 1490	51025048	10462N	4118-5-9	Q 1550
51026922	5391	51025010	10462N	4118-5-9	K 1490	51025049	10462N	4118-5-9	Q 1550
51026923	5391	51025019	10462N	4118-5-9	Q 1550	51025050	10462N	4118-5-9	Q 1550
51026924	5391	51025009	10462N	4118-5-9	K1490	51025051	10462N	4118-5-9	Q 1550
51026925	5391	51025018	10462N	4118-5-9	Q1550	51025044	10462N	4118-5-9	Q 1550
51026926	5391	51025017	10462N	4118-5-9	Q1550	51025045	10462N	4118-5-9	Q 1550

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-412nyc



Date: October 31, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510271
Manifest No.: 51030005

ROLL(S) TESTED per MLN 510271

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
51027902	0.404	28.6	78.3
51027906	0.406	29.1	78.3
51027909	0.404	27.6	78.5
51027912	0.408	28.6	78.8
51027915	0.405	28.2	78.3
51027921	0.395	27.5	79.0
Average	0.405	28.3	78.5
Max. Value	0.408	29.1	79.0
Min. Value	0.395	27.5	78.3
Std. Dev.	0.005	0.6	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51027901	5391	51025015	10462N	4118-5-9	K 1490	51025052	10462N	4118-5-9	Q 1550
51027902	5391	51025016	10462N	4118-5-9	K 1490	51025053	10462N	4118-5-9	Q 1550
51027903	5391	51025021	10462N	4118-5-9	Q 1550	51025054	10462N	4118-5-9	Q 1550
51027904	5391	51025020	10462N	4118-5-9	Q 1550	51025056	10462N	4118-5-9	Q 1550
51027907	5391	51026061	10462N	4118-5-9	Q 1550	51025059	10462N	4118-5-9	Q 1550
51027908	5391	51026062	10462N	4118-5-9	Q 1550	51025061	10462N	4118-5-9	Q 1550
51027910	5391	51026030	10462N	4118-5-9	K 1490	51025063	10462N	4118-5-9	Q 1550
51027911	5391	51026025	10462N	4118-5-9	Q 1550	51025062	10462N	4118-5-9	Q 1550
51027912	5391	51026026	10462N	4118-5-9	Q 1550	51026015	10462N	4118-5-9	Q 1550
51027913	5391	51026055	10462N	4118-5-9	K 1490	51026014	10462N	4118-5-9	Q 1550
51027915	5354	51026063	10462N	4118-5-9	Q 1550	51026002	10462N	4118-5-9	Q 1550

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-414nyc



Geosynthetics

MEMORANDUM

Date: November 2, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 7

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 37 rolls of Enkanet 4215-102-0000 shipped to you under manifest number 51102001 dated 11/02/95. These letters cover rolls shipped from MLN 510061, 510271, 510281, and 510291.

You will receive the hard copies of these results by regular mail.

Sincerely,

Rick Bowen

Brix-055.fax



Geosynthetics

Date: November 2, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510061
Manifest No.: 51102001

ROLL(S) TESTED per MLN 510061

ROLL No. <u>TESTED</u>	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51006901	0.406	27.4	78.0
51006903	0.411	28.4	77.8
51006905	0.411	27.8	78.5
51006906	0.405	27.2	78.0
Average	0.408	27.7	78.1
Max. Value	0.411	28.4	78.5
Min. Value	0.405	27.2	77.8
Std. Dev.	0.003	0.5	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number		Colback		Amoco		Amoco		Amoco	
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51006902	5354	51004049	10462N	4118-5-9	K1490	51004009	10462N	4118-5-9	O 1229

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-418.nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Teletax (704) 665-5000



Date: November 2, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510271
Manifest No.: 51102001

ROLL(S) TESTED per MLN 510271

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51027902	0.404	28.6	78.3
51027906	0.406	29.1	78.3
51027909	0.404	27.6	78.5
51027912	0.408	28.6	78.8
51027915	0.405	28.2	78.3
51027921	0.395	27.5	79.0
Average	0.405	28.3	78.5
Max. Value	0.408	29.1	79.0
Min. Value	0.395	27.5	78.3
Std. Dev.	0.005	0.6	0.3

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51027905	5391	51026065	10462N	4118-5-9	Q 1550	51025055	10462N	4118-5-9	Q 1550
51027906	5391	51026049	10462N	4118-5-9	Q 1550	51025058	10462N	4118-5-9	Q 1550
51027909	5391	51026029	10462N	4118-5-9	K 1490	51025057	10462N	4118-5-9	Q 1550
51027914	5391	51026056	10462N	4118-5-9	K 1490	51026003	10462N	4118-5-9	Q 1550
51027916	5354	51026064	10462N	4118-5-9	Q 1550	51026017	10462N	4118-5-9	Q 1550
51027917	5354	51026033	10462N	4118-5-9	Q 1550	51026016	10462N	4118-5-9	Q 1550
51027918	5354	51026034	10462N	4118-5-9	Q 1550	51026005	10462N	4118-5-9	Q 1550
51027920	5354	51026028	10462N	4118-5-9	K 1490	51026019	10462N	4118-5-9	Q 1550
51027922	5361	51026057	10462N	4118-5-9	K 1490	51026023	10462N	4118-5-9	Q 1550

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-419nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665 5009



Geosynthetics

Date: November 2, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510281
Manifest No.: 51102001

ROLL(S) TESTED per MLN 510281

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51028901	0.411	28.9	78.3
51028904	0.409	28.2	77.5
51028909	0.402	27.7	78.3
51028912	0.405	27.8	78.5
51028915	0.410	29.3	78.0
51028919	0.408	28.8	78.0
51028920	0.407	28.4	78.3
51028924	0.411	29.0	77.0
Average	0.408	28.5	78.0
Max. Value	0.411	29.0	78.5
Min. Value	0.402	27.7	77.0
Std. Dev.	0.003	0.6	0.5

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
<u>Shipped</u>	<u>Lot #</u>	<u>Roll number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>	<u>Roll Number</u>	<u>PE Type</u>	<u>Lot</u>	<u>Ship #</u>
51028901	5361	51026035	10462N	4118-5-9	Q 1550	51026013	10462N	4118-5-9	Q 1550
51028903	5361	51026037	10462N	4118-5-9	Q 1550	51026009	10462N	4118-5-9	Q 1550
51028904	5361	51026066	10462N	4118-5-9	Q 1550	51026008	10462N	4118-5-9	Q 1550
51028905	5361	51026031	10462N	4118-5-9	K 1490	51026022	10462N	4118-5-9	Q 1550
51028906	5361	51026032	10462N	4118-5-9	Q 1550	51027025	10462N	4118-5-9	Q 0903
51028907	5393	51026050	10462N	4118-5-9	Q 1550	51027026	10462N	4118-5-9	Q 1550
51028908	5393	51026039	10462N	4118-5-9	Q 1550	51026020	10462N	4118-5-9	Q 1550
51028909	5393	51026040	10462N	4118-5-9	Q 1550	51026021	10462N	4118-5-9	Q 1550
51028910	5393	51026042	10462N	4118-5-9	Q 1550	51028012	10462N	4118-5-9	Q 0903
51028911	5393	51026038	10462N	4118-5-9	Q 1550	51025060	10462N	4118-5-9	Q 1550
51028912	5393	51026043	10462N	4118-5-9	Q 1550	51026024	10462N	4118-5-9	Q 1550
51028913	5393	51026044	10462N	4118-5-9	Q 1550	51028020	10462N	4118-5-9	Q 1550
51028914	5393	51026045	10462N	4118-5-9	Q 1550	51028019	10462N	4118-5-9	Q 1550
51028915	5393	51026046	10462N	4118-5-9	Q 1550	51027029	10462N	4118-5-9	Q 1550
51028916	5393	51026047	10462N	4118-5-9	Q 1550	51027030	10462N	4118-5-9	Q 1550
51028917	5393	51027002	10462N	4118-5-9	Q 1550	51027023	10462N	4118-5-9	Q 0903
51028918	5393	51026048	10462N	4118-5-9	Q 1550	51027024	10462N	4118-5-9	Q 0903
51028919	5393	51027001	10462N	4118-5-9	Q 1550	51027033	10462N	4118-5-9	Q 1550
51028920	5393	51026051	10462N	4118-5-9	Q 1550	51027034	10462N	4118-5-9	Q 1550

AKZO Nobel Geosynthetics Company
Suite 518, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665 5009



Geosynthetics

Date: November 2, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510281
Manifest No.: 51102001

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51028922	5393	51027004	10462N	4118-5-9	Q 1550	51027032	10462N	4118-5-9	Q 1550
51028923	5393	51027003	10462N	4118-5-9	Q 1550	51028021	10462N	4118-5-9	Q 1550
51028925	5393	51026054	10462N	4118-5-9	K 1490	51027036	10462N	4118-5-9	L 0007
51028926	5393	51027006	10462N	4118-5-9	Q 1550	51027040	10462N	4118-5-9	Q 1550

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-420nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009



Date: November 2, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510291
Manifest No.: 51102001

ROLL(S) TESTED per MLN 510291

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
51029901	0.405	28.6	78.5
51029903	0.407	28.4	78.3
51029906	0.407	28.2	77.8
51029911	0.408	28.2	78.0
51029916	0.411	28.2	78.0
51029920	0.410	29.0	77.5
Average	0.408	28.4	78.0
Max. Value	0.411	29.0	78.5
Min. Value	0.405	28.2	77.5
Std. Dev.	0.002	0.3	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51029906	5393	51027012	10462N	4118-5-9	Q 0903	51027041	10462N	4118-5-9	Q 1550
51029907	5393	51027011	10462N	4118-5-9	Q 0903	51027042	10462N	4118-5-9	Q 1550
51029909	5393	51026060	10462N	4118-5-9	Q 1550	51027044	10462N	4118-5-9	Q 1550
51029910	5393	51027014	10462N	4118-5-9	Q 1550	51027049	10462N	4118-5-9	Q 0903

R.D. Bowen

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-421nyc

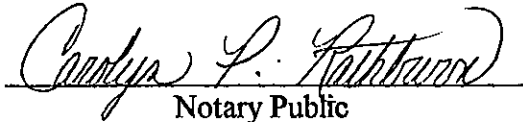
Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telex (704) 665-5009

NORTH CAROLINA

BUNCOMBE COUNTY

I, CAROLYN P. RATHBURN, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 2nd day of November, 1995.


Notary Public

My Commission Expires May 7, 2000.



Geosynthetics

MEMORANDUM

Date: November 3, 1995

From: AKZO NOBEL GEOSYNTHETICS CO., Asheville, NC USA
Rick BOWEN

Fax: (704) 665-5009
Tel: (704) 665-5041

To: Cashen & Associates
Attention: Steve BRIX
Fax: (516) 757-6641

Number of Pages Including Cover Sheet: 4

Re: East Northport Project -- Letters of Certification

Dear Steve:

Attached are the Letters of Certification for the 13 rolls of Enkanet 4215-102-0000 shipped to you under manifest number 51103002 dated 11/03/95. These letters cover rolls shipped from MLN 510291 and 510301.

You will receive the hard copies of these results by regular mail.

Sincerely,



Rick Bowen

Brix-056.fax

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Geosynthetics

Date: November 3, 1995

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510291
Manifest No.: 51103002

ROLL(S) TESTED per MLN 510291

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/yd²)</u>	<u>Inches</u>
51029901	0.405	28.6	78.5
51029903	0.407	28.4	78.3
51029906	0.407	28.2	77.8
51029911	0.408	28.2	78.0
51029916	0.411	28.2	78.0
51029920	0.410	29.0	77.5
Average	0.408	28.4	78.0
Max. Value	0.411	29.0	78.5
Min. Value	0.405	28.2	77.5
Std. Dev.	0.002	0.3	0.4

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Amoco Ship #
51029901	5393	51027005	10462N	4118-5-9	Q 1550	51027039	10462N	4118-5-9	Q 0903
51029902	5393	51027008	10462N	4118-5-9	Q 1550	51027027	10462N	4118-5-9	Q 1550
51029903	5393	51027007	10462N	4118-5-9	Q 1550	51027028	10462N	4118-5-9	Q 1550
51029904	5393	51027010	10462N	4118-5-9	Q 0903	51027037	10462N	4118-5-9	Q 0903
51029905	5393	51027009	10462N	4118-5-9	Q 1550	51027038	10462N	4118-5-9	Q 0903
51029908	5393	51026059	10462N	4118-5-9	Q 1550	51027043	10462N	4118-5-9	Q 1550
51029911	5393	51027017	10462N	4118-5-9	Q 1550	51027050	10462N	4118-5-9	Q 0903
51029912	5393	51027013	10462N	4118-5-9	Q 0903	51027045	10462N	4118-5-9	Q 1550
51029913	5393	51027021	10462N	4118-5-9	Q 1550	51027046	10462N	4118-5-9	Q 1550
51029914	5393	51027022	10462N	4118-5-9	Q 1550	51027051	10462N	4118-5-9	Q 0903

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-423nyc

Akzo Nobel Geosynthetics Company
Suite 318, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville NC 28802
Telephone (704) 665-5050
Telefax (704) 665-5009



Date: November 3, 1995

Geosynthetics

LETTER of CERTIFICATION
PHYSICAL TEST RESULTS

Ship To: J.D. Posillico Inc.
Product: 4215-102-0000
Manufacturing Lot Number: 510301
Manifest No.: 51103002

ROLL(S) TESTED per MLN 510301

ROLL No.	ASTM D1777 Composite Thick.	ASTM 3776 Mass/ Unit Area	ASTM D3774 Core Width
<u>TESTED</u>	<u>Inches</u>	<u>Total (oz/vd²)</u>	<u>Inches</u>
51030901	0.412	29.2	78.0
51030903	0.405	28.4	78.0
51030906	0.409	28.5	78.0
51030910	0.410	28.1	78.3
51030913	0.406	28.6	78.3
51030915	0.412	29.3	78.0
51030920	0.402	27.8	78.0
51030923	0.401	27.8	77.8
Average	0.407	28.5	78.1
Max. Value	0.412	29.3	78.3
Min. Value	0.401	27.8	77.8
Std. Dev.	0.004	0.6	0.2

All Sample(s) are taken in accordance with ASTM D4354

Enkanet 4215					Single Width Source Rolls of Enkanet 4015				
Roll Number	Colback				Amoco				Amoco
Shipped	Lot #	Roll number	PE Type	Lot	Ship #	Roll Number	PE Type	Lot	Ship #
51030911	5393	51028030	10462N	4118-5-9	Q 1550	51028044	10462N	4118-5-9	Q 1550
51030919	5354	51028033	10462N	4118-5-9	Q 1550	51028013	10462N	4118-5-9	Q 0903
51030920	5354	51028042	10462N	4118-5-9	Q 1550	51028015	10462N	4118-5-9	Q 0903

R.D. Bowen
Manager, Quality Control & Assurance
Akzo Nobel Geosynthetics Company

Cert-424nyc

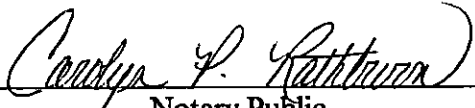
Akzo Nobel Geosynthetics Company
Suite 313, Ridgefield Business Center
Ridgefield Court
P.O. Box 7249
Asheville, NC 28802
Telephone: (704) 665-5050
Telefax: (704) 665-5050

NORTH CAROLINA

BUNCOMBE COUNTY

I, **CAROLYN P. RATHBURN**, a Notary Public for said county and state, do hereby certify that Rick Bowen, personally appeared before me this day and stated that he is Manager, Quality Control & Assurance of Akzo Nobel Geosynthetics Company and acknowledged, on behalf of Akzo Nobel Geosynthetics Company, the due execution of the foregoing instrument.

Witness my hand and official seal, this 3rd day of November, 1995.

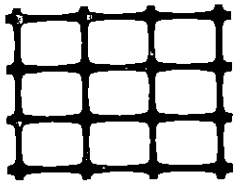


Notary Public

My Commission Expires May 7, 2000.

SUB APPENDIX 1b

TENSAR



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 03, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 60065

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

FARMINGDALE, NY 11735

SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

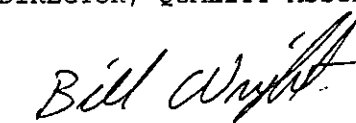
HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,



BILL SHELTON
DIRECTOR, QUALITY ASSURANCE



Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998

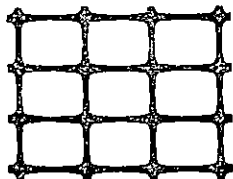


**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

Product Code:

DC 6205 T671A2

[illegible]



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

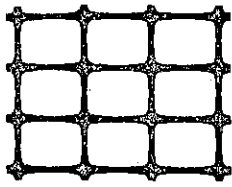
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0408-01	6.63	1062.6	306	2.24
5-0408-05	6.63	1166.2	304	2.48
5-0409-01	6.67	1159.3	303	2.14
5-0409-05	6.70	1284.9	302	2.57
5-0410-01	6.77	1188.8	307	2.54
5-0410-05	6.71	1234.8	306	2.51
5-0411-01	6.64	1138.8	302	2.44
5-0411-05	6.71	1177.2	301	2.70
5-0412-01	6.59	1138.8	298	2.51
5-0412-05	6.73	1208.7	300	2.58
5-0413-01	6.57	1222.5	310	2.53



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
5-0409-03 A	4298	4027
5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
5-0410-04 A	4469	4689
5-0410-07 A	4228	2807
5-0410-10 A	3240	3026
5-0411-07 C	3961	3293
5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

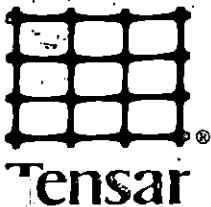
DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
• Transmissivity @ 10,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	25 (11.2)
• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
- Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
- Test values are for drainage net prior to bonding process.
- All test values are nominal, unless otherwise indicated.
- MD - Machine (roll) Direction.
- Minimum value.
- Inside dimensions in each principal direction are measured by calipers.
- Outside dimensions in each principal direction are measured by calipers.
- Thickness is measured by placing the specimen flat on a comparator base and lowering a round 1/2 inch diameter flat end contact surface squarely over a junction.
- Geotextile splices within each roll of finished goods shall be considered acceptable product. The splicing methods shall include, but are not limited to, stitching or heat bonding. The finished splice shall maintain the continuity of the filtration function of the geotextile. These methods will be considered viable and acceptable unless otherwise specified.
- Minimum value of a random 5 sample (MD) average between the polyethylene geonet and the needle punched geotextile.



PAGE 1

TENSAR ENVIRONMENTAL SYSTEMS

1035 FRED DRIVE

MORROW, GEORGIA 30260
(404) 961-2299UNIFORM STRAIGHT BILL OF LADING
NOT NEGOTIABLE

DATE

TENSAR SO NO. 10/09/95

401426

OLD
TO

21606

J.D. POSILICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735SHIP
TO

002

J.D. POSILICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF
HUNTINGTON, NY 11743

15 40

CUSTOMER PO NUMBER

USA

IF ANY PROBLEMS CONTACT:

SHIP DATE

7301

SHIP VIA

FOB

FREIGHT

WAREHOUSE

CONTACT: JOE SEPLAYZA

516-261-2058

NO. OF PACKAGES

KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS

SHIPPED

*WT (Sub to Cor)

CLASS N

557550

01 DC6205T671A2

14'X 225'

SQFT

NS1605/1125/1120

50 SF/RL 2-SIDED

PS 454/0-6"/U-6"

75,259

24,000

17000

02 OP350000

5-1/2 INCH WHITE NYLON

CABLE TIES

DRAINAGE NET CONNECTORS

17,000

EACH

MILL CERTS WITH LOT AND ROLL NUMBERS REQUIRED
SAME MATERIAL GUARANTEE AS TENSAR UX1500HS &
UX1700HS GEOGRIDDELIVER ASAP. CONTACT IS JOE SEPLAYZA AT
516-249-1872.FAX BILL OF LADING TO JOE SEPLAYZA AT
@ 516-249-8124 UPON SHIPMENT

C/O

TOTAL SHIPMENT

24 PCS @ 17000 +105

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

FREIGHT CHARGES

SEND PREPAID BILLS TO:

COMPUTREX, INC.

P.O. BOX 13020

LEXINGTON, KY 40583

SIGNATURE (RECEIVED BY)

NAME (PLEASE PRINT)

COMPANY

DATE

LOADED BY

CARRIER

TRAILER NO.

BY

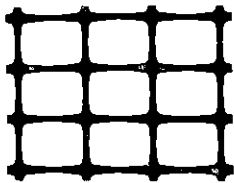
DATE

PER

DATE

CARRIER

1022 6/9



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 03, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 60063

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

FARMINGDALE, NY 11735

SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

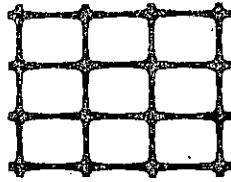
HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,


BILL SHELTON
DIRECTOR, QUALITY ASSURANCE


Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

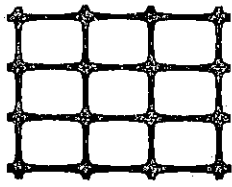
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0408-01	6.63	1062.6	306	2.24
5-0408-05	6.63	1166.2	304	2.48
5-0409-01	6.67	1159.3	303	2.14
5-0409-05	6.70	1284.9	302	2.57
5-0410-01	6.77	1188.8	307	2.54
5-0410-05	6.71	1234.8	306	2.51
5-0411-01	6.64	1138.8	302	2.44
5-0411-05	6.71	1177.2	301	2.70
5-0412-01	6.59	1138.8	298	2.51
5-0412-05	6.73	1208.7	300	2.58
5-0413-01	6.57	1222.5	310	2.53



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
5-0409-03 A	4298	4027
5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
5-0410-04 A	4469	4689
5-0410-07 A	4228	2807
5-0410-10 A	3240	3026
5-0411-07 C	3961	3293
5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
• Transmissivity @ 10,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	25 (11.2)
• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
- Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
- Test values are for drainage net prior to bonding process.
- All test values are nominal, unless otherwise indicated.
- MD - Machine (roll) Direction.
- Minimum value.
- Inside dimensions in each principal direction are measured by calipers.
- Outside dimensions in each principal direction are measured by calipers.
- Thickness is measured by placing the specimen flat on a comparator base and lowering a round 1/2 inch diameter flat end contact surface squarely over a junction.
- Geotextile splices within each roll of finished goods shall be considered acceptable product. The splicing methods shall include, but are not limited to, stitching or heat bonding. The finished splice shall maintain the continuity of the filtration function of the geotextile. These methods will be considered viable and acceptable unless otherwise specified.
- Minimum value of a random 5 sample (MD) average between the polyethylene geonet and the needle punched geotextile.



PAGE 1

TENSAR ENVIRONMENTAL SYSTEMS
1035 FRED DRIVE
MORROW, GEORGIA 30260
(404) 981-2339
UNIFORM STRAIGHT BILL OF LADING
NOT NEGOTIABLE

B/L NO. 60063

DATE

10/09/95

TENSAR SO NO.

401426

LD 21606
J.D. POSILICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

SHIP TO 002
J.D. POSILICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF
HUNTINGTON, NY 11743

15 40

CUSTOMER PO NUMBER

USA

IF ANY PROBLEMS CONTACT:

SHIP DATE

01

SHIP VIA

FOB

FREIGHT

WAREHOUSE

CONTACT: JOE SEPLAYZA

516-261-2058

PACKAGES

KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS

SHIPPED 544138 *WT (Sub to Cor)

CLASS NO.

57550

01 DC6205T671A2

14'X 225'
NS1605/1125/1120
50 SF/RL 2-SIDED
PS 454/0-6"/U-6"

75,037

24,000

SQFT

17000

02 OP350000

5-1/2 INCH WHITE NYLON
CABLE TIES
DRAINAGE NET CONNECTORS

①

MILL CERTS WITH LOT AND ROLL NUMBERS REQUIRED
SAME MATERIAL GUARANTEE AS TENSAR UX1500HS &
UX1700HS GEOGRID

DELIVER ASAP. CONTACT IS JOE SEPLAYZA AT
516-249-1872.

261 2038
FAX BILL OF LADING TO JOE SEPLAYZA AT
516-249-8124 UPON SHIPMENT

C/O

TOTAL SHIPMENT

24 K15

Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in
order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as
above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation or
the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to
another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any
and route to destination and as to each party at any time interested in all or any said property, that every service to be performed
shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Subject to Section 7 of Conditions of
applicable bill of lading, if this shipment is
to be delivered to the consignee without
recourse on the consignor, the consignor
shall sign the following statement:
The carrier shall not make delivery of this
shipment without payment of freight and
all other lawful charges.

FREIGHT CHARGES

SEND PREPAID BILLS TO:

COMPUTREX, INC.
P.O. BOX 13020
LEXINGTON, KY 40583

(RECEIVED BY)

NAME (PLEASE PRINT)

COMPANY

DATE

CARRIER

LIGON

TRAILER NO.

2630

DATE

10-23-95

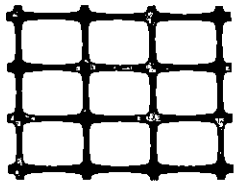
PER

CARRIER

DATE

10-23-95

1022 6/90



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 03, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 60196

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

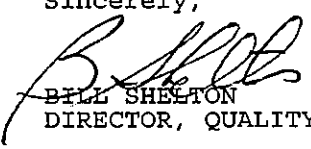
FARMINGDALE, NY 11735

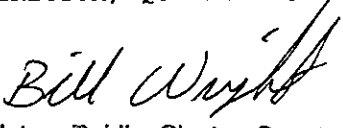
SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

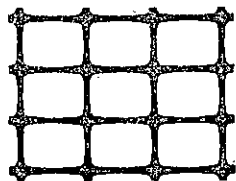
HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,


BILL SHELTON
DIRECTOR, QUALITY ASSURANCE


Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

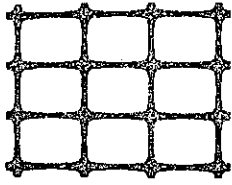
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0408-01	6.63	1062.6	306	2.24
5-0408-05	6.63	1166.2	304	2.48
5-0409-01	6.67	1159.3	303	2.14
5-0409-05	6.70	1284.9	302	2.57
5-0410-01	6.77	1188.8	307	2.54
5-0410-05	6.71	1234.8	306	2.51
5-0411-01	6.64	1138.8	302	2.44
5-0411-05	6.71	1177.2	301	2.70
5-0412-01	6.59	1138.8	298	2.51
5-0412-05	6.73	1208.7	300	2.58
5-0413-01	6.57	1222.5	310	2.53



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
5-0409-03 A	4298	4027
5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
5-0410-04 A	4469	4689
5-0410-07 A	4228	2807
5-0410-10 A	3240	3026
5-0411-07 C	3961	3293
5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

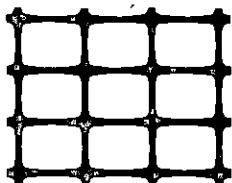
DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
• Transmissivity @ 10,000 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	25 (11.2)
• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
- Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
- Test values are for drainage net prior to bonding process.
- All test values are nominal, unless otherwise indicated.
- MD - Machine (roll) Direction.
- Minimum value.
- Inside dimensions in each principal direction are measured by calipers.
- Outside dimensions in each principal direction are measured by calipers.
- Thickness is measured by placing the specimen flat on a comparator base and lowering a round 1/2 inch diameter flat end contact surface squarely over a junction.
- Geotextile splices within each roll of finished goods shall be considered acceptable product. The splicing methods shall include, but are not limited to, stitching or heat bonding. The finished splice shall maintain the continuity of the filtration function of the geotextile. These methods will be considered viable and acceptable unless otherwise specified.
- Minimum value of a random 5 sample (MD) average between the polyethylene geonet and the needle punched geotextile.



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 03, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 60198

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

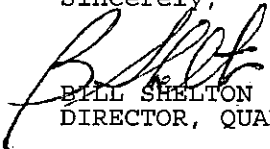
FARMINGDALE, NY 11735

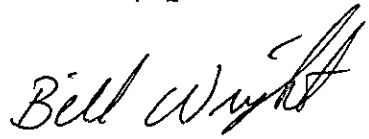
SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

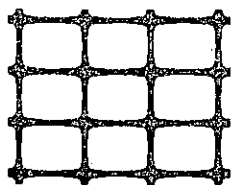
HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,


BILL SHELTON
DIRECTOR, QUALITY ASSURANCE


Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

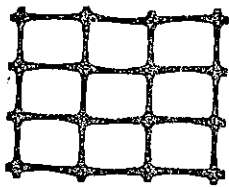
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0408-01	6.63	1062.6	306	2.24
5-0408-05	6.63	1166.2	304	2.48
5-0409-01	6.67	1159.3	303	2.14
5-0409-05	6.70	1284.9	302	2.57
5-0410-01	6.77	1188.8	307	2.54
5-0410-05	6.71	1234.8	306	2.51
5-0411-01	6.64	1138.8	302	2.44
5-0411-05	6.71	1177.2	301	2.70
5-0412-01	6.59	1138.8	298	2.51
5-0412-05	6.73	1208.7	300	2.58
5-0413-01	6.57	1222.5	310	2.53



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
5-0409-03 A	4298	4027
5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
5-0410-04 A	4469	4689
5-0410-07 A	4228	2807
5-0410-10 A	3240	3026
5-0411-07 C	3961	3293
5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
• Transmissivity @ 10,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	25 (11.2)
• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
- Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
- Test values are for drainage net prior to bonding process.
- All test values are nominal, unless otherwise indicated.
- MD - Machine (roll) Direction.
- Minimum value.
- Inside dimensions in each principal direction are measured by calipers.
- Outside dimensions in each principal direction are measured by calipers.
- Thickness is measured by placing the specimen flat on a comparator base and lowering a round 1/2 inch diameter flat end contact surface squarely over a junction.
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- Minimum value of a random 5 sample (MD) average between the polyethylene geonet and the needle punched geotextile.



1035 FRED DRIVE
MORROW, GEORGIA 30260
(404) 281-2592

B/L NO. 00100

DATE 10/09/95

UNIFORM STRAIGHT BILL OF LADING

TENSAR SO NO. 401426

tensar

21606

NOT NEGOTIABLE

002

15 40

BJ.D. POSILLICO, INC
TO 1610 NEW HIGHWAY
FARMINGDALE, NY 11735

SHIP TO J.D. POSILLICO, INC
TO JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF
HUNTINGTON, NY 11743

USA

CUSTOMER PO NUMBER

7301

IF ANY PROBLEMS CONTACT:

CONTACT: JOE SEPLAYZA

516-261-2058

SHIP DATE

10/11/95

SHIP VIA

FOB

FREIGHT

WAREHOUSE

DESTINATION

PD

S44295

AW

VO. OF PACKAGES

KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS

SHIPPED

*WT (Sub to Cor)

CLASS NO.

333156

SOFT

81 DC6205T671A2

14'X 225'

NS1605/1125/1120

50 SF/RL 2-SIDED

PS 454/0-6"/U-6"

69593

24,000

MILL CERTS WITH LOT AND ROLL NUMBERS REQUIRED
SAME MATERIAL GUARANTEE AS TENSAR UX1500HS &
UX1700HS GEOGRID

DELIVER ASAP. CONTACT IS JOE SEPLAYZA AT
516-249-1972.

FAX BILL OF LADING TO JOE SEPLAYZA AT
@ 516-249-8124 UPON SHIPMENT

Handwritten notes:
10-15-95
14'X 225'
50 SF/RL 2-SIDED
PS 454/0-6"/U-6"
10/30/95
15151
100

TOTAL SHIPMENT

24215

IVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in
ent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as
ted above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in
ssion of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to
r to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all be any
n of said route to destination, and as to each party at any time interested in all or any said property, that every service to be performed
nder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
peer hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms
onditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of
applicable bill of lading, if this shipment is
to be delivered to the consignee without
recourse on the consignor, the consignor
shall sign the following statement:
The carrier shall not make delivery of this
shipment without payment of freight and
all other lawful charges.

FREIGHT CHARGES

SEND PREPAID BILLS TO:
COMPUTREX, INC.
P.O. BOX 13020
LEXINGTON, KY 40583

THIRP (RECEIVED BY)

NAME (PLEASE PRINT)

COMPANY

DATE

ED BY

CARRIER

TRAILER NO.

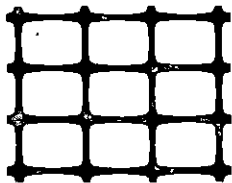
DATE

PER

DATE

CUSTOMER PACKING LIST

1022 6/90



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 03, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 60200

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

FARMINGDALE, NY 11735

SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,

BILL SHELTON
DIRECTOR, QUALITY ASSURANCE

Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998

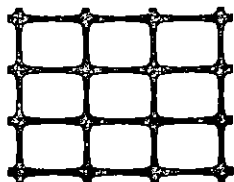


The Tensar Corporation

**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

Ship Date: 10-30-95
Sold To: J. D. Posillico Inc
Ship To: Huntington / Northport LF
Bill of Lading: 60200
Product Code: DC6205 T671A2

[illegible]



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

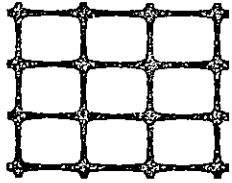
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0408-01	6.63	1062.6	306	2.24
5-0408-05	6.63	1166.2	304	2.48
5-0409-01	6.67	1159.3	303	2.14
5-0409-05	6.70	1284.9	302	2.57
5-0410-01	6.77	1188.8	307	2.54
5-0410-05	6.71	1234.8	306	2.51
5-0411-01	6.64	1138.8	302	2.44
5-0411-05	6.71	1177.2	301	2.70
5-0412-01	6.59	1138.8	298	2.51
5-0412-05	6.73	1208.7	300	2.58
5-0413-01	6.57	1222.5	310	2.53



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
5-0409-03 A	4298	4027
5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
5-0410-04 A	4469	4689
5-0410-07 A	4228	2807
5-0410-10 A	3240	3026
5-0411-07 C	3961	3293
5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

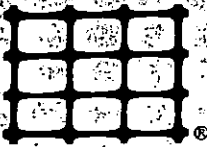
DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
• Transmissivity @ 10,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	25 (11.2)
• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
- Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
- Test values are for drainage net prior to bonding process.
- All test values are nominal, unless otherwise indicated.
- MD - Machine (roll) Direction.
- Minimum value.
- Inside dimensions in each principal direction are measured by calipers.
- Outside dimensions in each principal direction are measured by calipers.
- Thickness is measured by placing the specimen flat on a comparator base and lowering a round 1/2 inch diameter flat end contact surface squarely over a junction.
- Geotextile splices within each roll of finished goods shall be considered acceptable product. The splicing methods shall include, but are not limited to, stitching or heat bonding. The finished splice shall maintain the continuity of the filtration function of the geotextile. These methods will be considered viable and acceptable unless otherwise specified.
- Minimum value of a random 5 sample (MD) average between the polyethylene geonet and the needle punched geotextile.

**Tensar**

21606

SOLD J.D. POSILICO, INC.
TO 1610 NEW HIGHWAY

FARMINGDALE, NY 11735

PAGE 1

TENSAR ENVIRONMENTAL SYSTEMS

1035 FRED DRIVE

MORROW, GEORGIA 30260

(404) 961-2599

UNIFORM STRAIGHT BILL OF LADING

NOT NEGOTIABLE

002

B/L NO. 60200

DATE 10/09/95

TENSAR SO NO. 401426

15 40

SHIP J.D. POSILICO, INC.

TO JDP FIELD OFFICE

HUNTINGTON/NORTHPORT LF

HUNTINGTON, NY 11743

USA

CUSTOMER PO NUMBER

7301

SHIP DATE

10/11/95

SHIP VIA

FOB

FREIGHT

WAREHOUSE

DESTINATION

PD

S44295

AIR

IF ANY PROBLEMS CONTACT:

CONTACT: JOE SEPLAYZA

516-261-2058

NO. OF PACKAGES

KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS

SHIPPED

*WT (Sub to Cor)

CLASS N

333156

SQFT

01 DC6205T671A2

14'X 225'

NS1605/1125/1120

50 SF/RL 2-SIDED

PS 45470-6"/U-6"

74,101

24,000

MILL CERTS WITH LOT AND ROLL NUMBERS REQUIRED
SAME MATERIAL GUARANTEE AS TENSAR UX1500HS &
UX1700HS GEOGRIDDELIVER ASAP. CONTACT IS JOE SEPLAYZA AT
516-249-1872.FAX BILL OF LADING TO JOE SEPLAYZA AT
@ 516-249-8124 UPON SHIPMENT

C/O

OK 11/2/95

TOTAL SHIPMENT

24,125

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to deliver to another carrier on the route to said destination, and mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of the shipment without payment of freight and all other lawful charges.

FREIGHT CHARGES

SEND PREPAID BILLS TO:

COMPUTREX, INC.

P.O. BOX 13020

LEXINGTON, KY 40583

SIGNATURE (RECEIVED BY)

NAME (PLEASE PRINT)

COMPANY

DATE

DOWNLOADED BY

CARRIER

TRAILER NO.

PER

DATE

PER

DATE

CUSTOMER PACKING LIST

1022 8



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 03, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 60236

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

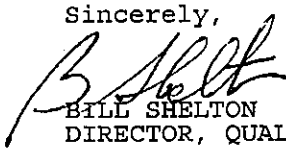
FARMINGDALE, NY 11735

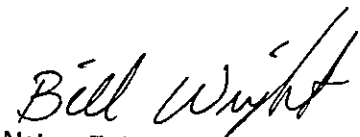
SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

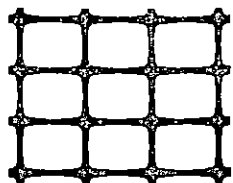
HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,


BILL SHELTON
DIRECTOR, QUALITY ASSURANCE


Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

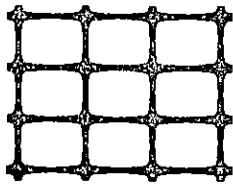
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0408-01	6.63	1062.6	306	2.24
5-0408-05	6.63	1166.2	304	2.48
5-0409-01	6.67	1159.3	303	2.14
5-0409-05	6.70	1284.9	302	2.57
5-0410-01	6.77	1188.8	307	2.54
5-0410-05	6.71	1234.8	306	2.51
5-0411-01	6.64	1138.8	302	2.44
5-0411-05	6.71	1177.2	301	2.70
5-0412-01	6.59	1138.8	298	2.51
5-0412-05	6.73	1208.7	300	2.58
5-0413-01	6.57	1222.5	310	2.53



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
5-0409-03 A	4298	4027
5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
5-0410-04 A	4469	4689
5-0410-07 A	4228	2807
5-0410-10 A	3240	3026
5-0411-07 C	3961	3293
5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

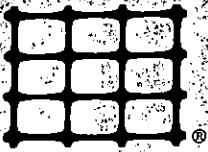
DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
• Transmissivity @ 10,000 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	25 (11.2)
• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
- Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
- Test values are for drainage net prior to bonding process.
- All test values are nominal, unless otherwise indicated.
- MD - Machine (roll) Direction.
- Minimum value.
- Inside dimensions in each principal direction are measured by calipers.
- Outside dimensions in each principal direction are measured by calipers.
- Thickness is measured by placing the specimen flat on a comparator base and lowering a round 1/2 inch diameter flat end contact surface squarely over a junction.
- Geotextile splices within each roll of finished goods shall be considered acceptable product. The splicing methods shall include, but are not limited to, stitching or heat bonding. The finished splice shall maintain the continuity of the filtration function of the geotextile. These methods will be considered viable and acceptable unless otherwise specified.
- Minimum value of a random 5 sample (MD) average between the polyethylene geonet and the needle punched geotextile.



Tensar

21606

SOLD J.D. POSILICO, INC
TO 1610 NEW HIGHWAY
FARMINGDALE, NY 11735

PAGE 1

TENSAR ENVIRONMENTAL SYSTEMS

1035 FRED DRIVE
MORROW, GEORGIA 30260
(404) 961-2599

UNIFORM STRAIGHT BILL OF LADING

NOT NEGOTIABLE

002

SHIP J.D. POSILICO, INC
TO JDP FIELD OFFICE.
HUNTINGTON/NORTHPORT LF
HUNTINGTON, NY 11743

B/L NO. 60236

DATE 10/09/95

TENSAR SO NO. 401426

15 40

USA CUSTOMER PO NUMBER		IF ANY PROBLEMS CONTACT:			
7301		CONTACT: JOE SEPLAYZA 516-261-2058			
SHIP DATE	SHIP VIA	FOB	FREIGHT		
10/11/95		DESTINATION	WAREHOUSE		
		PD	S44361		
NO. OF PACKAGES	KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS		SHIPPED	*WT (Sub to Cor)	CLASS N
1965.06	01 DC6205T671A2 14'X 225' NS1605/1125/1120 50 SF/RL 2-SIDED PS 454/0-6"/U-6"		48073	16,000	
SQFT	MILL CERTS WITH LOT AND ROLL NUMBERS REQUIRED SAME MATERIAL GUARANTEE AS TENSAR UX1500HS & UX1700HS GEOGRID DELIVER ASAP. CONTACT IS JOE SEPLAYZA AT 516-249-1872. FAX BILL OF LADING TO JOE SEPLAYZA AT @ 516-249-8124 UPON SHIPMENT C/O				
TOTAL SHIPMENT			16,000		

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown); marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipped hereat, subject to all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if the shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

FREIGHT CHARGES

SEND PREPAID BILLS TO:

COMPUTREX, INC.
P.O. BOX 13020
LEXINGTON, KY 40583

SIGNATURE (RECEIVED BY)

NAME (PLEASE PRINT)

COMPANY

DATE

LOADED BY

CARRIER

TRAILER NO.

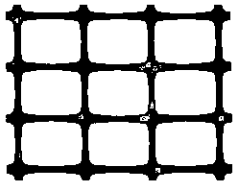
PER

DATE

PER

DATE

CUSTOMER PACKING LIST



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 03, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 60067

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

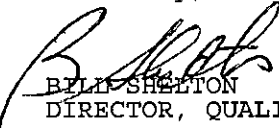
FARMINGDALE, NY 11735

SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

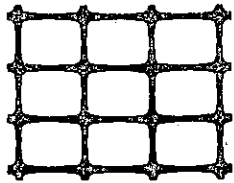
HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,


BILL SHELTON
DIRECTOR, QUALITY ASSURANCE


Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

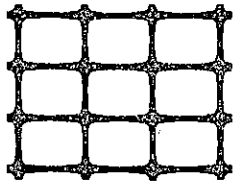
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0408-01	6.63	1062.6	306	2.24
5-0408-05	6.63	1166.2	304	2.48
5-0409-01	6.67	1159.3	303	2.14
5-0409-05	6.70	1284.9	302	2.57
5-0410-01	6.77	1188.8	307	2.54
5-0410-05	6.71	1234.8	306	2.51
5-0411-01	6.64	1138.8	302	2.44
5-0411-05	6.71	1177.2	301	2.70
5-0412-01	6.59	1138.8	298	2.51
5-0412-05	6.73	1208.7	300	2.58
5-0413-01	6.57	1222.5	310	2.53



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
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5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
5-0410-04 A	4469	4689
5-0410-07 A	4228	2807
5-0410-10 A	3240	3026
5-0411-07 C	3961	3293
5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

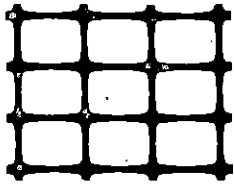
DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
• Transmissivity @ 10,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	25 (11.2)
• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
- Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
- Test values are for drainage net prior to bonding process.
- All test values are nominal, unless otherwise indicated.
- MD - Machine (roll) Direction.
- Minimum value.
- Inside dimensions in each principal direction are measured by calipers.
- Outside dimensions in each principal direction are measured by calipers.
- Thickness is measured by placing the specimen flat on a comparator base and lowering a round 1/2 inch diameter flat end contact surface squarely over a junction.
- Geotextile splices within each roll of finished goods shall be considered acceptable product. The splicing methods shall include, but are not limited to, stitching or heat bonding. The finished splice shall maintain the continuity of the filtration function of the geotextile. These methods will be considered viable and acceptable unless otherwise specified.
- Minimum value of a random 5 sample (MD) average between the polyethylene geonet and the needle punched geotextile.



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 03, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 60134

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

FARMINGDALE, NY 11735

SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,

BILL SHELTON
DIRECTOR, QUALITY ASSURANCE

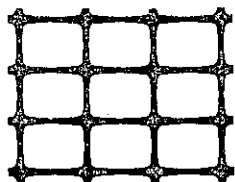
Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



**1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255**

Ship Date: Oct. 25, 1995
 Sold To: J. D. Posillico, INC
 Ship To: Huntington / Northport L.F
 Bill of Lading: 60134
 Product Code: DC 6205 T671 A2

[illegible]



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

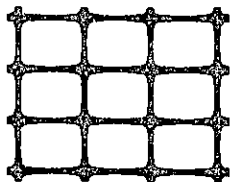
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0408-01	6.63	1062.6	306	2.24
5-0408-05	6.63	1166.2	304	2.48
5-0409-01	6.67	1159.3	303	2.14
5-0409-05	6.70	1284.9	302	2.57
5-0410-01	6.77	1188.8	307	2.54
5-0410-05	6.71	1234.8	306	2.51
5-0411-01	6.64	1138.8	302	2.44
5-0411-05	6.71	1177.2	301	2.70
5-0412-01	6.59	1138.8	298	2.51
5-0412-05	6.73	1208.7	300	2.58
5-0413-01	6.57	1222.5	310	2.53



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
5-0409-03 A	4298	4027
5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
5-0410-04 A	4469	4689
5-0410-07 A	4228	2807
5-0410-10 A	3240	3026
5-0411-07 C	3961	3293
5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

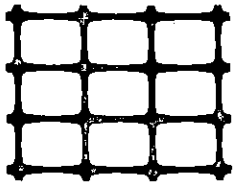
DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
• Transmissivity @ 10,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	25 (11.2)
• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

1. Test values are for the core net only.
2. Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
3. Test values are for drainage net prior to bonding process.
4. All test values are nominal, unless otherwise indicated.
5. MD - Machine (roll) Direction.
6. Minimum value.
7. Inside dimensions in each principal direction are measured by calipers.
8. Outside dimensions in each principal direction are measured by calipers.
9. Thickness is measured by placing the specimen flat on a comparator base and lowering a round 1/2 inch diameter flat end contact surface squarely over a junction.
10. Geotextile splices within each roll of finished goods shall be considered acceptable product. The splicing methods shall include, but are not limited to, stitching or heat bonding. The finished splice shall maintain the continuity of the filtration function of the geotextile. These methods will be considered viable and acceptable unless otherwise specified.
11. Minimum value of a random 5 sample (MD) average between the polyethylene geonet and the needle punched geotextile.



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

NOVEMBER 09, 1995

J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401426
PURCHASE ORDER NUMBER: 7301
BILL OF LADING NUMBER: 22134

SOLD TO: J.D. POSILLICO, INC
1610 NEW HIGHWAY

SHIP TO: J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

FARMINGDALE, NY 11735

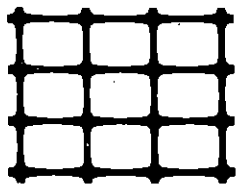
HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671A2 geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,

BILL SHELTON
DIRECTOR, QUALITY ASSURANCE

Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

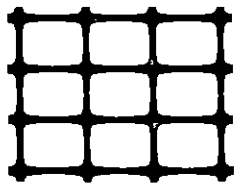
J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
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5-0408-05	6.63	1166.2	304	2.48
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Tensar

The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel. 404 • 968 • 3255

J. D. Posillico, Inc

Huntington / Northport Landfill

DC6205T671A2

Bond Strength Addendum

(gm/in)

Test No.	Top	Bottom
5-0408-05 D	3019	2914
5-0408-04 A	3708	3138
5-0408-07 B	2895	1832
5-0409-03 A	4298	4027
5-0409-06 A	3014	2561
5-0409-04 A	3935	3213
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5-0412-02 A	3204	2779
5-0412-08 A	3588	2897
5-0413-01 B	4248	2350

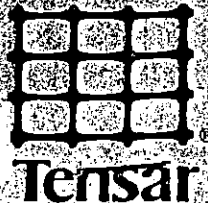
DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

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• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
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- Minimum value.
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PAGE 1

TENSAR ENVIRONMENTAL SYSTEMS
1035 FRED DRIVE
MORRIS, GEORGIA 30260
(404) 961-2399
UNIFORM STRAIGHT BILL OF LADING
NOT NEGOTIABLE

BL NO. 22134

DATE 10/09/95

TENSAR SO NO. 401426

SOLD J.D. POSILLICO, INC.
TO 1610 NEW HIGHWAY
FARMINGDALE, NY 11735

SHIP J.D. POSILLICO, INC.
TO JDE FIELD OFFICE
HUNTINGTON/NORTHPORT, LF
HUNTINGTON, NY 11743

CUSTOMER PO NUMBER

IF ANY PROBLEMS CONTACT:

SHIP DATE

SHIP VIA

FOR

FREIGHT

WAREHOUSE

NO. OF PACKAGES

KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS

SHIPPED

*WT. (Sub to Cor)

CLASS I

01 DC6205T671A2

14'X 225'

NS1605/1125/1120

50 SF/RL 2-SIDED

PS 45440-6"/21-6"

MILL CERTS WITH LOT AND TOLL NUMBERS REQUIRED.
SAME MATERIAL GUARANTEE AS TENSAR UN1500HS &
UN1700HS GEDERIO

DELIVER ASAP. CONTACT IS JIM SEYMOUR AT
916-247-1822.

FAX BILL OF LADING TO JOE SCHAEFER AT
616-249-8124 FROM SHIPPER.

5-6409 64D

1992 SQ

600222222

5-0410 05B

3112 SQ

RECEIVED
17 NOV 95
Dm Cr

2341071

TOTAL SHIPMENT

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated above which said carrier (the word "tariffs" being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if by its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Contract of applicable bill of lading, if the shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

FREIGHT CHARGES

SEND PREPAID BILLS TO:

COMPUTREX, INC.
P.O. BOX 13020
LEXINGTON, KY 40583

URE (RECEIVED BY)

NAME (PLEASE PRINT)

COMPANY

DATE

CHECKED/LOADED BY

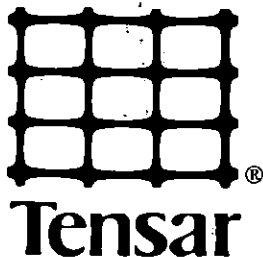
CARRIER

TRAILER NO

PER

PER

DATE



The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
(404) 968-3255

APRIL 04, 1996

J.D. POSILILICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401525
PURCHASE ORDER NUMBER: 7301 ADDITION
BILL OF LADING NUMBER: 64098

SOLD TO: J.D. POSILILICO, INC
1610 NEW HIGHWAY

SHIP TO: J.D. POSILILICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

FARMINGDALE, NY 11735

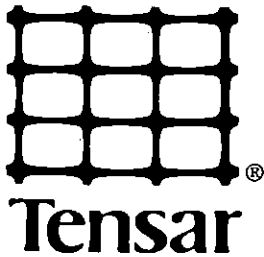
HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671AD geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,

BILL SHELTON
DIRECTOR, QUALITY ASSURANCE

Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
(404) 968-3255

APRIL 04, 1996

J.D. POSILICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

REFERENCE: TENSAR ORDER NUMBER: 401525
PURCHASE ORDER NUMBER: 7301 ADDITION
BILL OF LADING NUMBER: 64098

SOLD TO: J.D. POSILICO, INC
1610 NEW HIGHWAY

SHIP TO: J.D. POSILICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF

FARMINGDALE, NY 11735

HUNTINGTON, NY 11743

This is to certify that TENSAR DC6205T671AD geocomposite as manufactured by the TENSAR Corporation, meets the characteristics and properties per the attached specification sheet.

Sincerely,

BILL SHELTON
DIRECTOR, QUALITY ASSURANCE

Notary Public, Clayton County, Georgia
My Commission Expires May 10, 1998



1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 968-3255

Product Code:

March 26, 1996

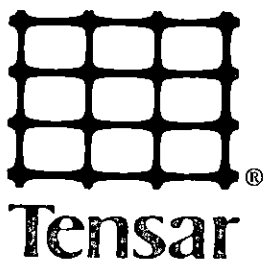
J.D. Posillico, INC

Huntington/Northport LF

64098

DC6205T671AD

[illegible]



The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
(404) 968-3255

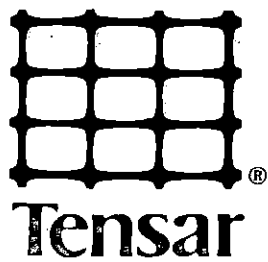
J D POSILLICO, INC

Huntington / Northport Landfill

DC6205T671AD

NS1605 Geonet Data

Test No.	Thickness (mm)	Tensile Strength (lb/ft)	Wt. Area (lb/1000ft ²)	% CB
5-0464-01	6.29	1049.6	269	2.15
5-0464-05	6.35	1092.1	272	2.38
5-0464-09	6.74	1213.5	300	2.42
5-0464-13	6.71	1142.8	303	2.45



The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
(404) 968-3255

J. D. POSILLICO, INC

Huntington / Northport Landfill

DC6205T671AD

Bond Strength
(g/in)

Lot Number	Top	Bottom
5-0464-03 A	4643	3846
5-0464-04 B	3788	3878
5-0464-07 A	1504	1735
5-0464-09 A	5084	2796
5-0464-11 A	4638	3371

DRAINAGE COMPOSITE DC6205

The drainage composite shall consist of a geotextile bonded to both sides of a drainage net. The drainage composite shall have a low compressibility in order to maintain high flow capacity over a wide range of confining pressures. The bonding process shall not introduce adhesives or other foreign products. The strength of the bond between the drainage net and the geotextile shall be greater than the friction developed between the geotextile and a soil. The drainage composite shall maintain a high flow under long term loading conditions and shall be resistant to all forms of biological or chemical degradation normally encountered in a soil environment. The drainage composite shall be made from the drainage net and geotextile products whose property requirements are listed below.

PROPERTY	TEST METHOD	NOTES	UNITS	VALUE
Flow Capacity	ASTM 4716	1		
• Gradient of 1				
• Transmissivity @ 500 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	30 (13.5)
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• Transmissivity @ 20,000 psf			$\times 10^{-3} \text{ ft}^2/\text{sec}$ (gpm/ft)	17 (7.6)
Mechanical Properties		3,4,5		
• Compression @ 20,000 psf	ASTM	1,2	%	50
• Peak Tensile Strength-MD	ASTM D5035	6	lbs/ft	685
Drainage Net				
• Aperture Size	I.D. Calipered	7	inches	0.30
• Thickness	O.D. Calipered	8,9	inches	0.25
• Polyethylene Polymer				
-Specific Gravity	ASTM D792		g/cm^3	0.940
-Carbon Black Stabilization	ASTM D4218		%	2.5
Geotextile		10		
• Grab Tensile Strength	ASTM D4632		lbs	120
• AOS	ASTM D4751		US Std.Sv.Sz.	100
• Weight			oz/sy	4.0,4.5,6.0,8.0
Composite				
• Laminate Bond Strength	ASTM F904	11	g/in	400
• Dimensions - Finished Product				
-Thickness			in	0.29
-Roll Length			ft	225
-Roll Width (Drainage Net)			ft	14
• Roll Weight			lbs	1100

Notes

- Test values are for the core net only.
- Compression Tests are performed on a 2-inch square sample loaded at a 1mm/minute constant rate of strain.
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Tensar 21606
J.O. POSILLICO, INC.
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

1035 FRED DRIVE
MORROW, GEORGIA 30260
(404) 961-2599

B/L NO. **64098**
DATE **12/13/95**
401525
TENSAR SO NO. 15 41

UNIFORM STRAIGHT BILL OF LADING
NOT NEGOTIABLE 02

SHIP TO J.O. POSILLICO, INC.
JOP FIELD OFFICE
HUNTINGTON/NORTHPORT LF
HUNTINGTON, NY 11743

USA

CUSTOMER PO NUMBER 7301 ADDITION	CONTACT: JOE SEPLAYZA	IF ANY PROBLEMS CONTACT: 516-261-2058
SHIP DATE 03/26/96	SHIP VIA	DESTINATION
FOB	FREIGHT PD	WAREHOUSE
	547789	AW

NO. OF PACKAGES	KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS	SHIPPED	*WT (Sub to Cor)	CLASS
159250 SQFT	01 DC62051421AD (SQFT) 14' X 175' FT NS1605 / 1125 / 1120 2450 SF/RL 2-SIDED PS 454/0-6"/U-6"	64,982	25,000	
6000 EACH	02 OP350000 3/4" X 3/4" INCH WHITE NYLON CABLE TIES DRAINAGE NET CONNECTORS	0		
	HILL CERTS WITH LOT AND ROLL NUMBERS REQUIRED. FAX TO BRIAN 516-752-6641 AND THEN FAX TO SOLD TO. - COPY TES CUST SVC. DELIVER 2 TRUCKS 3-28, 2 TRUCKS 3-29. CALL JOE SEPALAZA 24 HRS PRIOR TO DELIVERY. (516)249-1822. ****FAX B/L TO BRIAN DUGGAN UPON SHIPMENT 516-752-6641.***** **SHIP TIES VIA UPS 3 DAY TO ARRIVE 3-28-96** C/U			
	TOTAL SHIPMENT	27 RLS		

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

FREIGHT CHARGES
SEND PREPAID BILLS TO:
COMPUTREX, INC.
P.O. BOX 13020
LEXINGTON, KY 40583

SIGNATURE (RECEIVED BY) <i>W. Roberts</i>	NAME (PLEASE PRINT)	COMPANY	DATE
LOADED BY <i>T. Mune</i>	DATE 3-26-96	CARRIER <i>Southern Cargo</i> PER <i>George White</i>	TRAILER NO. <i>4820</i> DATE <i>4/8/96</i>

CUSTOMER PACKING LIST

Shipper No. 011665

ICC #MC 247576
U.E.S. Transport

Carrier No.

Date 2/26/96

(Name of Carrier)

Signee JD Bos, Hues Trac		FROM: Shipper So Chgo	
Street 101 1/2 1st Ave		Street	
Destination Northampton, MA		Origin Northampton, MA	
Route Northampton, MA		Emergency Response Phone No.	
Vehicle Number			

No. Shipping Units	HM	Kind of Packaging, Description of Articles, Special Marks and Exceptions	Weight (subject to correction)	Rate	CHARGES
11		112 Tied Lill 1/2 1/2 1/2	22.5		

When transporting hazardous materials, the shipper must comply with the Department of Transportation's (DOT) Hazardous Materials Regulations (HMR) and the International Air Transport Association's (IATA) Dangerous Goods Regulations (DGR). The shipper must also comply with the Department of Transportation's (DOT) Emergency Communication Standard (ECS) and the International Air Transport Association's (IATA) Dangerous Goods Regulations (DGR).

REMIT C.O.D. TO: ADDRESS:	COD Amt: \$	C.O.D. FEE: PREPAID ☐ \$ COLLECT ☐ \$
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____.	This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.	TOTAL CHARGES: \$
Signature _____		FREIGHT CHARGES: FREIGHT PREPAID ☐ except when box at right is checked. Check box if large amount to be collected.

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of destination at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any part of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any other alleged or asserted oral or written contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes the lawful contract carriage and is signed by authorized representatives of both parties to the contract.

SHIPPER	CARRIER United Express Service, Inc. d/b/a U.E.S. Transport
PER	PER 799 State Road P.O. Box 79576
	DATE North Dartmouth, MA 02747 (508) 997 6105

1035 FRED DRIVE
MURROW, GEORGIA 30260
(404) 961-2599

B/L NO. 64107
12/13/95
DATE
401525

UNIFORM STRAIGHT BILL OF LADING
NOT NEGOTIABLE 02

TENSAR SO NO.

15 40

21606
J.D. POSILLICO, INC
1610 W HIGHWAY
TO FARMINGDALE, NY 11735

SHIP TO J.D. POSILLICO, INC
JDP FIELD OFFICE
HUNTINGTON/NORTHPORT LF
HUNTINGTON, NY 11743

USA

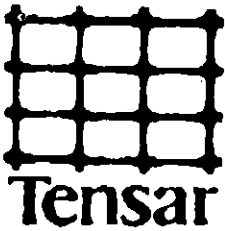
CUSTOMER PO NUMBER 7301 ADDITION		CONTACT: JOE SEPALAZA		IF ANY PROBLEMS CONTACT: 516-261-2058	
SHIP DATE 03/26/96	SHIP VIA	DESTINATION	FOB PD	FREIGHT PD	WAREHOUSE S47789 AW
NO. OF PACKAGES	KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS			SHIPPED	*WT (Sub to Cor)
159250 SQFT	01 DC6205T671AD 910# (SQFT) 14FTX175FT NS1605 / 1125 / 1120 2450 SF/RL 2-SIDED PS 454/0-6"/U-6"			30,485	11830 #
6000 EACH	02 DP350000 5-1/2 INCH WHITE NYLON CABLE TIES DRAINAGE NET CONNECTORS			O	
MILL CERTS WITH LOT AND ROLL NUMBERS REQUIRED: FAX TO BRIAN 516-757-6641 AND THEN FED X TO SOLD TO. - COPY TES CUST SVC. DELIVER 2 TRUCKS 3-28, 2 TRUCKS 3-29. CALL JOE SEPALAZA 24 HRS PRIOR TO DELIVERY. (516)246-1872. ****FAX B/L TO BRIAN DUGGAN UPON SHIPMENT 516-757-6641.***** **SHIP TIES VIA UPS 3 DAY TO ARRIVE 3-28-96** C/O					
TOTAL SHIPMENT				13 ROLLS	11830 #

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

FREIGHT CHARGES
SEND PREPAID BILLS TO:
COMPUTREX, INC
P.O. BOX 13020
LEXINGTON, KY 40583

SIGNATURE (RECEIVED BY)		NAME (PLEASE PRINT)		COMPANY		DATE	
LOADED BY		CARRIER		TRAILER NO.			
DATE		PER		DATE			
CARRIER							



The Tensar Corporation

1210 Citizens Parkway
Morrow, Georgia 30260
Tel (404) 888-3255

Ship Date:**Sold To:****Ship To:**

Bill of Lading:

Product Code:

March 27, 1996
J. D. Posillico Inc
Huntington / Northport LA
64107
DC 6205 T671 AD

[illegible]



Jones Motor Co., Inc.

900 West Bridge St.
Spring City, PA 19475
800-825-6637

PRO. No. 6540498
TERMINAL NO. 705
B/L NO.

MEMO BILLING

UNIT NO. 95001	TRAILER NO. 15	DATE 3/27/96	NAME [Signature]
SIGNEE		TO Position in Job Field Office	
TC		Huntington, W. Va.	
SHIPPER		Tan 1st International	
TC		Madison, Ga.	
INTERLINE	TO	AT	INTERLINE FROM
			PRQ.

NO. PCS. 13	ROLLS	WEIGHT 30485	RATE	PPD.	COLL.	IMPORTANT: IF MATERIAL IS C.O.D. GET A CERTIFIED CHECK BEFORE UNLOADING
"FOR DELIVERY PURPOSES ONLY" THIS IS NOT A FREIGHT INVOICE						

RECEIVED IN
GOOD CONDITION

SIGN FULL NAME NO INITIALS ACCEPTED

[Signature]

DATE 3/27/96

NO.
OF
PIECES

77 CONSIGNEE COPY - DRIVER - GIVE TO CONSIGNEE



1035 FRED DRIVE
MORROW, GEORGIA 30260
(404) 961-2599

B/L NO. **64097**
12/13/95
DATE
401525

UNIFORM STRAIGHT BILL OF LADING
NOT NEGOTIABLE 02

TENSAR SO NO.

Tensar 21606
J.D. POSILLICO, INC
1610 NEW HIGHWAY
FARMINGDALE, NY 11735

J.D. POSILLICO, INC
SHIP TO JOP FIELD OFFICE
HUNTINGTON/NORTHPORT LF
HUNTINGTON, NY 11743

USA

CUSTOMER PO NUMBER 7301 ADDITION		CONTACT: JOE SEPLAYZA		IF ANY PROBLEMS CONTACT: 516-261-2058	
SHIP DATE 03/26/96	SHIP VIA	DESTINATION	FOR	FREIGHT PD	WAREHOUSE S47789 AW
NO. OF PACKAGES	KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS			SHIPPED	*WT (Sub to Cor)
159250 SQFT	01 DC6205T321AD (SQFT) 14FTX175FT NS1605 / 1125 / 1120 2450 SF/RL 2-SIDED PS 454/0-6"/U-6"			64,127	25,000
6000 EACH	02 OP350000 5-1/2 INCH WHITE NYLON CABLE TIES DRAINAGE NET CONNECTORS				
MILL CERTS WITH LOT AND ROLL NUMBERS REQUIRED. FAX TO BRIAN 516-757-6641 AND THEN FAX TO SOLD TO. - COPY TES CUST SVC.					
DELIVER 2 TRUCKS 3-28, 2 TRUCKS 3-29. CALL JOE SEPALAZA 24 HRS PRIOR TO DELIVERY. (516)246-1972. ****FAX B/L TO BRIAN DUGGAN UPON SHIPMENT 516-757-6641.*****					
SHIP TIES VIA UPS 3 DAY TO ARRIVE 3-28-96					
C/O					
TOTAL SHIPMENT				27 RLS	

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

FREIGHT CHARGES
SEND PREPAID BILLS TO:
COMPUTREX, INC.
P.O. BOX 13020
LEXINGTON, KY 40583

SIGNATURE (RECEIVED BY): <i>[Signature]</i>	NAME (PLEASE PRINT) J.D. POSILLICO	COMPANY J.D. POSILLICO, INC	DATE 12/13/95
ORDERED BY: <i>[Signature]</i>	CARRIER Southern Cargo	TRAILER NO. 1B024A	DATE 3-26-96
R T Moore	DATE 3-26-96	PER S. J. L.	DATE 12/13/95

CUSTOMER PACKING LIST



1210 Citizens Parkway
Morrow, Georgia 30260
Tel. (404) 958-3255

Product Code:

DC 6205 T671AD

[illegible]

SHIPPER
PLEASE NOTEFREIGHT CHARGES ARE PREPAID ON THIS
BILL OF LADING UNLESS MARKED COLLECT.**American ★★★★★
Transport, Inc.**

THIS SHIPPING ORDER must be legibly filled in, in ink, indelible pencil, or in carbon and retained by the Agent.

NORTHERN HILLS TRANSPORT DIVISION
P.O. BOX 819
STURGIS, SD 57735

SHIPPER NO. 64097	
UNIT NO. 18024	DATE 3-26-96
LOAD CONTROL NO. 144546	

FROM: (SHIPPER) <i>Tensar</i>		TO: (CONSIGNEE) <i>JD Pasillico, Inc</i>	
STREET		STREET <i>Field Office</i>	
CITY, STATE <i>Morrow Ga</i>	ZIP CODE	CITY, STATE <i>Huntington NY</i>	ZIP CODE
BILL TO:			
NUMBER SHIPPING UNITS	HM	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (SUBJECT TO CORRECTION)
27		(SQFT) 14FT x 175FT. NS1605 / 1125 / 1120 2450 SF / RL 2-Sided PS 454 / 0-6" / 46"	25,000
"UNLESS A GREATER VALUE IS DECLARED HEREIN, THE SHIPPER HEREBY RELEASES THE VALUE TO \$1.50 PER POUND FOR EACH ARTICLE." IF A VALUE IN EXCESS OF \$1.50 PER POUND IS DECLARED, TARIFF/CONTRACT RULES AND REGULATIONS REQUIRE THAT 72 HOURS' ADVANCE NOTICE BE PRESENTED IN WRITING TO THE CORPORATE HEADQUARTERS OF AMERICAN TRANSPORT, INC.			
MIT C.O.D.		COD AMT.: \$	C.O.D. FEE PREPAID ☐ \$ COLLECT ☐
TO		TOTAL CHARGES \$	
ADDRESS		FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked. Check box if charges are to be collect.	
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____		Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the shipper the shipper shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (Signature of Shipper)	
RECEIVED, subject to the tariffs/contract in effect, and on file at American Transport, Inc.'s general office on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route of said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the Bill of Lading terms and conditions in the governing tariff/contract on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing tariff/contract and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. If the rate on this Bill of Lading is different than rate in tariff maintained at the general office of American Transport, Inc., the parties to this Bill of Lading agree that the shipment will move via carrier's contract authority and the parties agree to be bound by the terms and conditions contained on the reverse side of this Bill of Lading. If there is any dispute concerning the billed freight charges, shipper will notify American Transport, Inc. in writing by telefax at (800) 284 1907 within 72 hours of receipt of the freight bill. Otherwise these rates and charges will be final and binding.			
This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the D.O.T.		CARRIER AMERICAN TRANSPORT, INC.	
SHIPPER		PER	
PER		DATE	TIME
		PIECES	

EQUAL OPPORTUNITY CONDITION: This contract contains the provisions of Sec. 202 of Executive Order 11246, Paragraphs 1 through 7.

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

RECEIVED THE ABOVE DESCRIBED PROPERTY IN GOOD CONDITION EXCEPT AS NOTED		NOTE: American Transport, Inc. WILL NOT ACCEPT ANY RESPONSIBILITY FOR DAMAGE, SHORTAGE, ETC. NOTATION BY CONSIGNEE ON THIS DELIVERY RECEIPT WITHOUT APPROVAL OF GENERAL OFFICE AT PITTSBURGH, PA. CALL 800-284-1900 OR CALL COLLECT (412) 789-8878.	
FIRM	DATE DELIVERED	TIME DELIVERED	A.M. P.M.
<i>Mike Nelson</i> Show Complete Company Name and Signature - Initials Not Accepted	3 27 96		

NOTE: If shipper or consignee refuses to sign drivers signature will prevail.

1. Original shipping order (white), signed by shipper where indicated and retained by shipper for its records. 2. Original Delivery Receipt (green), to be returned to General Office in trip envelope provided or turned in at terminal and terminal will submit with terminal payoff. 3. Consignee copy (pink) to be retained by consignor. 4. Driver copy (yellow) to be retained by driver. 5. Terminal copy (gold) to be returned by issuing terminal.