Golder Associates Inc.

400 Commercial Street
Manchester, NH USA 03101-1113
Telephone (603) 668-0880
Fax (603) 668-1199

Golder Associates

I-PLEX

REPORT ON
RTC COVER CERTIFICATION
INDUSTRI-PLEX SITE
WOBURN, MASSACHUSETTS
(VOLUME 2 of 2)

Prepared for:

Industri-Plex Site Remedial Trust

23 Atlantic Avenue

Woburn, Massachusetts

Prepared by:

Golder Associates Inc.

400 Commercial Street

Manchester, New Hampshire

Distribution:

1 Copy – D. Michael Light
6 Copies - John Fiore
2 Copies - Joe LeMay, U.S. EPA
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April 1998

Project No.: 933-6143

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APPENDIX H

SOIL AND ROCK MATERIALS

APPENDIX H.1

SOIL LABORATORY TEST RESULTS

APPENDIX H.1

SUMMARY OF COVER SOIL & SUBBASE LAB TEST RESULTS

SITE SAMPLE NUMBER	LAB SAMPLE NUMBER	DATE	SOURCE	GRADATION (% PASSING) ASTM D422								ASTM D 4318	Organic Content	PROCTOR TESTS			
				6"	3"	2"	3/4"	#4	#10	#50	#200	PI	(Percent)	ASTM D 698 (PCF)	MOIST (%)	ASTM D 1557 (PCF)	MOIST (%)
SD-1	C-271	5/16/96	BRADFORD					99	97	57	13.0	NP				115.7	12.5
SD-2	C-387	6/13/96	BRADFORD					100	96	57	10.9					113.3	12.8
SD-3	C-540a	7/17/96	BRADFORD					100	99	93	13	NP				102.0	14.7
SD-4	C-540b	7/17/96	BRADFORD						100	95	15	NP				100.9	15.9
SD-5	C-639a	8/8/96	BRADFORD					100	99	95	9.8					101.2	14.8
SD-6	C-639b	8/12/96	BRADFORD						100	85	8.7					104.4	15.0
SD-7	C-639c	8/12/96	BRADFORD					98	96	82	11.6					105.7	13.8
SD-8	SD-8	8/16/96	BRADFORD			100	100	99	98	87	18	NP	0.3			106.0	11.8
SD-9	C-782	9/13/96	REVERE			100	96	91	88	53	17.3	NP				121.6	9.3
SD-10			RESERVED														
SD-11	C-832a	9/30/96	REVERE				99	96	93	50	10.8	NP				117.2	10.7
SD-12	C-832b	9/30/96	REVERE			100	97	93	90	48	9.9	NP				117.6	10.4
SD-13	C-832c	9/30/96	BRADFORD							98	26.6	NP				112.4	11.5
SD-14	SD-14	9/26/96	REVERE													119.5	10.0
SD-15	C-865a	10/18/96	BRAD/REVERE				100	98	97	76	16.8	NP				110.1	12.8
SD-16	C-865b	10/18/96	BRAD/REVERE				100	99	98	80	15.3	NP				106.6	13.6
SD-17	C-865c	10/18/96	BRAD/REVERE				100	98	95	63	13.7	NP				114.0	11.5
SD-18	C-865d	10/18/96	REVERE			100	98	93	90	44	7.7	NP				115.5	11.8
SD-19	C-865e	10/18/96	REVERE				100	98	95	62	14.1	NP				115.1	10.7
SD-20	C-898a	10/24/96	REVERE				100	98	95	48	7.9	NP				114.6	11.7
SD-21	C-898b	10/24/96	REVERE					98	95	44	6.4	NP				113.4	11.1
SD-22	C-898c	10/24/96	REVERE				100	97	93	48	12.1	NP				119.0	11.0
SD-23	C-898d	10/24/96	BRADFORD						100	95	30.0	NP				101.5	16.6
SD-24	C-898e	10/24/96	BRADFORD						100	96	10.6	NP				98.8	17.1
SD-25	C-923a	10/28/96	BRADFORD			100	92	82	76	27	4.2	NP				115.5	10.6
SD-26	C-923b	10/28/96	BRADFORD							98	27	NP				101.6	15.3
SD-27	C-923c	10/28/96	REVERE			100	95	89	85	41	8.6	NP				116.3	9.8
SD-28	C-984a	11/1/96	REVERE			100	98	94	90	47	8.1					115.0	11.0
SD-29	C-984b	11/1/96	REVERE			100	99	95	92	49	9.6					115.5	11.4

Notes:

1. See Abbreviation Table 2.
2. Gardner source is from same source as Hubbardston.
3. Sample Numbers SS-1.1, SS-3.1, SS-4.1, SS-5.1 and SD-36.1 are corrected Proctor tests to account for aggregate in the samples.
4. Soils with the site sample number prefix "SD" meet gradation requirements for compacted fill and ordinary borrow.
5. Soils with the site sample number prefix "SS" meet the compacted fill requirement or were improved by blending to meet the compacted fill requirements.
6. Soils with the site sample number prefix "CL" did not meet the ordinary borrow criteria but did meet compacted fill specifications.
7. Soils with the site sample number prefix "C" met the compacted fill criteria and were used in the remedy for Presidential and Commerce Way Extensions.
8. Materials with the site sample number prefix "GB" met the criteria for either gravel borrow or road structural fill as described under the heading "source".

APPENDIX H.1

SUMMARY OF COVER SOIL & SUBBASE LAB TEST RESULTS

SITE SAMPLE NUMBER	LAB SAMPLE NUMBER	DATE	SOURCE	GRADATION (% PASSING) ASTM D422								ASTM D 4318 PI	Organic Content (Percent)	PROCTOR TESTS			
				6"	3"	2"	3/4"	#4	#10	#60	#200			ASTM D 698 (PCF)	MOIST (%)	ASTM D 1557 (PCF)	MOIST (%)
SD-30	C-984c	11/1/96	BRADFORD						100	97	26.1					102.4	15.3
SD-31	C-1012a	11/8/96	BRADFORD					100	99	92	25.1					103.4	15.5
SD-32	C-1012b	11/8/96	REVERE				100	96	95	78	16.8					111.0	11.7
SD-33	C-1052a	11/20/96	BRADFORD						100	90	23.0					103.5	14.5
SD-34	C-1052b	11/20/96	REVERE				100	97	93	49	9.0					114.1	11.1
SD-35	C-1052c	11/20/96	BRADFORD				100	100	99	94	30.0					103.2	14.9
SD-36	C-1084	12/4/96	HUBBARDSTON			100	95	64	60	34	5.0	NP				122.0	11.2
SD-36.1		12/11/96	HUBBARDSTON													129.9	8.7
SD-37	C-1091	12/9/96	BRADFORD				100	100	100	95	22.8	NP				100.5	16.9
SD-38A	SD-38A	12/16/96	GARDNER													115.4	14.2
SD-38	C-1114	12/18/96	GARDNER		100	97	95	93	90	58	11.4	NP				110.3	14.0
SD-39	C-1120	12/26/96	BRADFORD						100	97	23.6	NP				102.5	15.3
SD-40	SD-40	12/31/96	PLYMOUTH													115.8	12.0
SD-41	C-1a	1/2/97	HUBBARDSTON			100	99	99	98	71	14.2	NP				105.0	12.5
SD-42	C-2a	1/3/97	PLYMOUTH				100	98	96	54	12.0	NP				113.5	12.1
SD-43	C-2b	1/3/97	HUB/BRAD MIX				100	99	99	74	18.7	NP				106.9	12.8
SD-44	SD-44	1/6/97	HUB/BRD/PLYM													111.0	13.7
SD-45	SD-45	1/6/97	HUB/BRD/PLYM													111.2	12.0
SD-46	SD-46	1/6/97	HUB/BRD/PLYM													111.0	13.0
SD-47	SD-47	1/23/97	COMMERCE WAY													126.2	10.2
SD-48	C-226	5/1/97	HUBBARDSTON			100	99	97	96	83	20.5					107.0	12.7
SD-49	867	10/16/97	HUBBARDSTON													123.0	8.0
SS-1	C-456a	6/26/96	WIA STOCK PILE		100	98	88	75	69	36	13.5	1				117.4	8.9
SS-1.1		11/11/96	WIA STOCK PILE													121.8	7.8
SS-2	C-456b	6/26/96	WIA STOCK PILE		100	100	98	96	94	47	5.2	NP				107.5	9.8
SS-3	C-456c	6/26/96	SOUTH AAD			100	91	85	79	46	15.0	1				114.3	9.1
SS-3.1		11/11/96	SOUTH AAD													117.7	8.3
SS-4	C-456d	6/26/96	SOUTH AAD			100	89	73	64	27	7.9	NP				123.6	9.1
SS-4.1		11/11/96	SOUTH AAD													127.3	8.1
SS-5	C-456c	6/28/96	E JANPET		100	98	89	70	59	32	8.2	NP				116.0	11.6
SS-5.1		11/11/96	E JANPET													120.1	10.3
SS-6	SS-6	6/18/96	E JANPET													119.8	9.5
SS-7	SS-7	6/20/96	SE CORN. PROP.													125.8	8.7
SS-8	SS-8	6/26/96	UGT W JANPET													106.0	14.5
SS-9	C-540c	7/17/96	N JANPET			100	93	88	84	55	20	NP				115.5	14.3
SS-10	C-550a	7/17/96	S UTIL CORRIDOR			100	80	59	51	28	10.0	NP				131.7	8.2
SS-11	C-550b	7/17/96	S JANPET				91	61	48	19	6.2	NP				131.2	5.6

APPENDIX H.1

SUMMARY OF COVER SOIL & SUBBASE LAB TEST RESULTS

SITE SAMPLE NUMBER	LAB SAMPLE NUMBER	DATE	SOURCE	GRADATION (% PASSING) ASTM D422								ASTM D 4318 PI	Organic Content (Percent)	PROCTOR TESTS ASTM D 698 (PCF)	MOIST (%)	ASTM D 1557 (PCF)	MOIST (%)
				6"	3"	2"	3/4"	#4	#10	#50	#200						
SS-12	C-566	7/17/96	VINING CO.		100	98	85	75	68	38	13.9	NP				130.7	6.5
SS-13	SS-13	7/24/96	SOUTH AAD													123	10
SS-14	C-639d	8/12/96	PROC. SOIL			100	91	74	59	17	3.6					110.0	10.3
SS-15	SS-15	8/10/96	SOUTH AAD			100	95	87	78	41	21	5	7			93.5	16
SS-16	SS-16	8/15/96	SOUTH AAD			100	98	87	80	58	33	9	8.7			102.6	17.5
SS-17	SS-17	8/15/96	DET BASIN			100	99	88	79	57	31	2				114	20
SS-18	C-649	8/16/96	SCRND SITE SOIL			100	95	84	78	50	24.9	NP				101.2	13.5
SS-19	C-719	9/11/96	SCRND SITE SOIL			100	97	92	89	50	15.2	NP				120.1	8.7
SS-20	C-683a	9/5/96	SCRND SITE SOIL				100	91	82	50	24.4	NP				106.7	18.0
SS-21	C-683b	9/5/96	DET BASIN				94	80	72	30	10.4	NP				112.6	13.1
SS-22	C-683c	9/5/96	DET BASIN				98	95	93	43	6.1	NP				115.1	12.8
SS-23	SS-23	8/16/96	DET BASIN													115.8	8.2
SS-24	SS-24	8/17/96	SCRND SITE SOIL								15.8					115.8	11.5
SS-25	SS-25	8/16/96	1/2 SD/ 1/2 SS								14.5					113.2	7.3
SS-26	SS-26	8/16/96	2/3 SD/ 1/3 SS								10.1					109.9	7.0
SS-27	SS-27	9/4/96	NE JANPET			100	89	73	62	31	14	NP				98.6	17.5
SS-28	C-755	9/13/96	1/2 SD/ 1/2 SS			100	98	92	88	67	14.3	NP	2.6			108.5	14.2
SS-29	C-761a	9/13/96	1/2 SD/ 1/2 SS		100	97	92	89	88	72	11.6	NP	1			107.1	13.3
SS-30	C-761b	9/13/96	1/2 SD/ 1/2 SS			100	95	86	82	57	14.5	NP	4.4			113.0	9.9
SS-31	SS-31	9/10/96	MID MBTA													110.1	18.9
SS-32	C-807b	9/20/96	NORTH MBTA		97	97	85	70	61	32	16	NP				110.1	16.8
SS-33	C-807a	9/13/96	SOUTH MBTA		100	100	96	76	70	39	10.1	NP				123.8	12.1
SS-34	C-1064	11/25/96	PRES. WAY EXT.		100	96	88	69	59	35	12.4	NP				132.8	9.9
SS-35	C-1093	12/10/96	COMM. WAY EXT.			100	89	74	69	44	8.2	NP				127.5	7.9
SS-36	SS-36	12/18/96	WIA STOCK PILE													131.4	11
SS-37	C-24a	1/15/97	ECHP STK. PILE			100	85	55	45	26	10.9	NP				122.9	10
SS-38	C-24b	1/15/97	ECHP STK. PILE			100	84	60	53	32	12.0	NP				126.6	10
SS-39	C-24c	1/15/97	ECHP STK. PILE			100	86	64	55	34	12.7	NP				127.0	9.2
CL-1	C-15a	1/24/96	HAVERHILL			96	90	82	78	64	42	NP				134.8	6.7
CL-2	C-15b	1/24/96	HAVERHILL		100	97	90	80	77	60	38.9	NP				133.7	6.9
CL-3	C-15c	1/24/96	HAVERHILL			100	94	82	78	61	33.4	NP				132.5	7.4
CL-4	C-15d	1/24/96	HAVERHILL		100	92	86	76	72	57	34.0	NP				132.2	6.2
CL-5	C079a	3/14/96	HAVERHILL		93	93	87	78	74	61	39	NP				135.2	7.0
CL-6	C-79b	3/14/96	HAVERHILL		100	92	85	76	72	59	38	NP				133.8	7.9
CL-7	C-79c	3/14/96	HAVERHILL		93	93	90	84	81	71	46	NP				130.5	8.7

APPENDIX H.1

SUMMARY OF COVER SOIL & SUBBASE LAB TEST RESULTS

SITE SAMPLE NUMBER	LAB SAMPLE NUMBER	DATE	SOURCE	GRADATION (% PASSING) ASTM D422								ASTM D 4318 PI	Organic Content (Percent)	PROCTOR TESTS			
				6"	3"	2"	3/4"	#4	#10	#50	#200			ASTM D 698 (PCF)	MOIST (%)	ASTM D 1557 (PCF)	MOIST (%)
C-261A	C-261A	5/31/94	ECHP		100	97	85	69	62	27	11.5			124.1	10		
C-400	C-400	7/6/94	HUBBARDSTON			100	99	96	95	61	7.3			110.3	10.3		
C-419	C-419	7/12/94	ROCK CRUSHER	100	91		46	26	21	12	6	NP		137.9	7.5		
C-854	C-854	10/21/94	HUBBARDSTON			100	98	95	94	58	7.3			109.5	8.4		
C-992	C-992	11/30/94	HUBBARDSTON				100	97	96	71	10.9			107	12.8		
C-137C	C-137C	3/31/95	HUBBARDSTON			100	98	96	93	57	8.8			113.9	12.5		
C-321A	C-321A	5/26/95	HUBBARDSTON			100	98	94	96	58	8.1			113.6	10.6		
				(3")	(2")	(3/4")	(1/2")	(#4)	(#10)	(#50)	(#200)						
GB-1	C-593c	7/18/96	GRAV BORROW		100	95	70	46	32	13	7.5	NP				145.9	6.8
GB-4	C-923d	10/14/96	GRAV BORROW		100	99	83	46	30	13	7.6	NP				148.2	6.3
GB-7	C-1b	1/2/97	ROAD STR. FILL	100	100	74	72	68	48	20	9.9	NP				140.1	7.5
GB-10	C-86	2/14/97	GRAV BORROW											144.8	7.2		

APPENDIX H.2

ANGULAR STONE LABORATORY TEST RESULTS

APPENDIX H.2

SUMMARY OF ANGULAR STONE LABORATORY TEST RESULTS

SITE SAMPLE NUMBER	LAB SAMPLE NUMBER	DATE	SOURCE	GRADATION (% PASSING) ASTM D422								ABRASION TEST (%) ASTM C535/C131
				2"	1"	3/4"	1/2"	3/8"	#4	#10	#50	
GB-6	C-1045	11/18/96	Bardon Tri		100	89	20	5	1	0.8		16.9
GB-8	C-80a	2/12/97	Bardon Tri		100	92	14	3	1	1		13
GB-9	C-80b	2/12/97	Bardon Tri		100	85	11	2	1	1		12

Note:
1. See abbreviation Table 2.

APPENDIX H.3

RIP-RAP LABORATORY TEST RESULTS

APPENDIX H.3

SUMMARY OF RIP RAP & BALLAST LABORATORY TEST RESULTS

SITE SAMPLE NUMBER	LAB SAMPLE NUMBER	DATE	SOURCE	GRADATION (% PASSING)												ABRASION TEST (%) ASTM C535	FREEZE THAW AASHTO T103 (%)	SPECIFIC GRAVITY ASTM C-127
				18"	12"	8"	7"	6"	5"	4"	3"	2"	-1/2	1"	3/4"			
Saugus Quarry Ledge Stone	-	7/20/95	Bardon Trimount													17.4	1.07	
Stockyard	C-603b	8/16/95	Bardon Trimount								100	50	7	2				
LRS Certification	-	7/8/96	Bardon Trimount													17-18		2.78-2.94
RR-1	C-539b	7/18/96	Bardon Trimount								100	78	12	2	1			
RR-2	C-807c	9/13/96	Bardon Trimount			100	83	72	51	41	12	1	0.2	0	0			
RR-3	C-865f	10/1/96	Ballast	NOTE 2												12.0		
RR-4	FIELD	12/16/96	Bardon Trimount		100													
RR-5	FIELD	12/20/96	Heffron		80													

Note:
1. See abbreviation Table 2.
2. Meets AREA Size No. 4 Requirements.

APPENDIX H.4

TOPSOIL LABORATORY TEST RESULTS

APPENDIX H.4

SUMMARY OF TOPSOIL LABORATORY TEST RESULTS

SITE SAMPLE NUMBER	LAB SAMPLE NUMBER	DATE	SOURCE	GRADATION (% PASSING)															Organic Cont. (%)
				2"	1"	3/4"	1/2"	3/8"	#4	#10	#20	#40	#200	.05m	.03m	.01m	.005mm	.002mm	
TS-1	C-77c	2/28/96	Bradford	100	97	97	96	95	94	94	91	73	25	24	17	9	5	2	4.2
TS-2	C-342	5/21/96	Bradford	100	92	92	89	86	81	76	69	56	16	14	12	9	5	2	5.6
TS-3	TS-3	7/2/96	Bradford		100	96		96	92	88	84	76	43		26	15	5	3	6.8
TS-4	TS-4	7/2/96	Bradford	100	92	92		89	87	83	79	71	40		26	14	6	2	6.8
TS-5	TS-5	7/2/96	Bradford			100		96	92	88	84	75	43		27	12	5	3	6.9
C-178b	C-178b	4/18/95	Manchester	100	96	95	93	92	91	87	86	65	15	13	8	4	2	2	7.4
C-452b	C-452b	7/10/95	Manchester		100	99	96	95	91	86	76	61	14	11	9	4	3	1	Note 3
C-452c	C-452c	7/10/95	Manchester	100	99	98	97	95	92	88	79	65	15	12	8	5	4	2	Note 3
C-471	C-471	7/14/95	Manchester			100	95	93	89	79	59	38	11.5	7	5	3	2	1	Note 3

SITE SAMPLE NUMBER	LAB SAMPLE NUMBER	DATE	SOURCE	GRADATION			Organic Cont. (%)
				SAND	SILT	CLAY	
S970529-112		6/5/97	Cape Cod	65	30	5	5.8

Note:
1. See abbreviation Table 2
2. Topsoil pH tests are included with Baker Soil Test results.
3. Organic Content % for July 1995 samples of Manchester topsoil were not performed.

BAKER SOIL TEST RESULTS

DATE	LAB NO.	SERIAL NO.	COUNTY	ACRES	FIELD	SOIL
06/04/96	8295	016496	OUT OF STATE	00	BRADFD	TURF ESTAB

AGRICULTURAL ANALYTICAL SERVICES LABORATORY
COLLEGE OF AGRICULTURAL SCIENCES
THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PA 16802
(814 863-0841)

SOIL TEST REPORT FOR:

P NEUMAN/GOLDER ASSC
400 COMMERCIAL ST
MANCHESTER NH 03101

COPY SENT TO:

DALE E BAKER/LMD
3048 RESEARCH DR
STATE COLLEGE PA 16801

SOIL NUTRIENT LEVELS:

		LOW	OPTIMUM	HIGH	EXCESSIVE
Soil pH		X			
Phosphate	(P_2O_5)	XXXXXXXXXXXXXXXXXXXX			
Potash	(K_2O)	XXXXXXXXXXX			
Magnesium	(MgO)	XXXXX			
Calcium	(Ca)	X			

RECOMMENDATIONS FOR: *PARK AREA - TO PLANT (KY. BLUE OR RYEGRASS)*

See Back For Comments

LIMESTONE: *7800* LBS PER ACRE — 1,3

ORGANIC MATTER: *NONE* CU. YDS. PER ACRE

APPLY THE FOLLOWING FERTILIZER NUTRIENTS AS INDICATED - AMOUNTS ARE IN LBS/ACRE

		NITROGEN (N)	PHOSPHATE (P_2O_5)	POTASH (K_2O)	
BASIC FERTILIZER		*NONE*	*80*	*240*	3,4
PLUS STARTER FERTILIZER	QUICKLY AVAILABLE NITROGEN	*60*			
	OR		*30*	*30*	5,6
	SLOWLY AVAILABLE NITROGEN	*120*			

MESSAGES:

CONTACT YOUR COUNTY AGENT IF YOU NEED ASSISTANCE IN INTERPRETING THIS RECOMMENDATION.

LABORATORY RESULTS:

SOIL pH	P lb/A	ACIDITY	K	Mg	Ca	CEC	K	Mg	Ca
5.3	109	7.8	0.14	0.3	1.0	9.2	1.5	3.2	10.8
		EXCHANGEABLE CATIONS (meq/100 g)					% SATURATION		

OTHER TESTS:

ORGANIC MATTER - 3.6 %

INDUSTRY COPY

SOIL3! TURF ESTAB.

PETER NEUMAN/GOLDER ASSOC.

400 COMMERCIAL ST.
MANCHESTER NH 03101

LAND MANAGEMENT DECISIONS, INC.
3048 RESEARCH DRIVE
STATE COLLEGE, PA 16801
SOIL CHEMISTRY, LAND & WASTE MANAGEMENT DECISIONS USING
CHEMICAL ANALYSES FROM CENTRE ANALYTICAL LABORATORIES,

TM

LMD INTERPRETATION OF BAKER SOIL TEST (BST) DATA.

THE BST IS ASTM OFFICIAL METHOD # D5435-93. STANDARD DIAGNOSTIC SOIL TEST FOR PLANT GROWTH AND FOOD CHAIN PROTECTION.

IDENTIFICATION	DATE	LAB NO	COUNTY	SOIL	LIME REQ.(T/AC)	SOIL PH	BST PH	CEC (MEQ/100 G)	SP. COND.
NEUMAN96	06-14-1996	8295	OOS	L11469	3.90	5.30	5.30	9.20	0.00

TEST LEVEL		LOW	NORMAL	HIGH
PHOSPHORUS:				
CALCULATED EPC(PPB)	65.81	**********		
Mehlich 3 P (PPM)	54.50	**********		
BAKER SOIL TEST POTASSIUM:				
BST pK	3.53	**********		
BST K (PPM)	13.40	**********		
Exchangeable (ppm)	54.60	**********		
Percent Of CEC	1.52	**********		
BAKER SOIL TEST MAGNESIUM:				
BST pMg	3.17	**********		
BST Mg (PPM)	29.00	**********		
Exchangeable (PPM)	36.00	*****		
Percent of CEC	3.26	*		
BAKER SOIL TEST CALCIUM:				
BST pCa	2.59	**********		
BST Ca (PPM)	192.50	**********		
Exchangeable (PPM)	200.00	*		
Percent of CEC	10.87	*		
BAKER SOIL TEST CATION RATIOS:				
(Ca plus Mg)/H	4.05	*		
Mg/K	1.94	**********		
Ca/Mg	0.58	**********		
		LOW	NORMAL	
BAKER SOIL TEST MANGANESE:				
BST pMn	9.32	*		
BST Mn (PPM)	0.30	*		
BAKER SOIL TEST IRON:				
BST pFe	21.77	**		
BST Fe (PPM)	0.20	*		
BAKER SOIL TEST COPPER:				
BST pCu	14.93	**********		
BST Cu (PPM)	0.50	******		
BAKER SOIL TEST ZINC:				
BST pZn	12.40	*********		
BST Zn (PPM)	0.45	***		
		LOW	NORMAL	HIGH

PETER NEUMAN/GOLDER ASSOCFILE NEUMAN96

```
                                  |----------LOW----------|---------------------NORMAL--------------------|----------HIGH----------|
 NON-ESSENTIAL ELEMENTS           |                       |                                            |                        |
                                  |                       |                                            |                        |
 BAKER SOIL TEST SODIUM:          |                       |                                            |                        |
  BST  Na (PPM)        13.90      *******                 |                                            |                        |
                                  |                       |                                            |                        |
 BAKER SOIL TEST ALUMINUM:        |                       |                                            |                        |
  BST  Al (PPM)         0.34      **                      |                                            |                        |
  BST  pAl             12.68      ******************      |                                            |                        |
                                  |                       |                                            |                        |
 BAKER SOIL TEST LEAD:            |                       |                                            |                        |
  BST  Pb (PPM)         0.06      *                       |                                            |                        |
  BST  pPb             13.58      *                       |                                            |                        |
                                  |                       |                                            |                        |
 BAKER SOIL TEST FOR NICKEL:      |                       |                                            |                        |
  BST  Ni (PPM)         0.05      **                      |                                            |                        |
  BST  pNi             15.25      *                       |                                            |                        |
                                  |                       |                                            |                        |
 BAKER SOIL TEST FOR CADMIUM:     |                       |                                            |                        |
  BST  Cd (PPM)         0.00      *                       |                                            |                        |
  BST  pCd             99.99      *                       |                                            |                        |
                                  |                       |                                            |                        |
                                  |----------LOW----------|---------------------NORMAL--------------------|----------HIGH----------|
```

PK, PMG, PCA, PAL, ETC. INDICATE THE AVAILABILITY OF RESPECTIVE ELEMENTS AND ARE CALCULATED NEGATIVE LOGARITHMS OF IONIC ACTIVITIES WHICH ARE ANALOGOUS TO PH, ACTIVITY OF THE HYDROGEN ION.

NOTE: BAKER SOIL TEST WITHOUT TOTAL SORBED METALS

EXCEPT FOR LIME REQUIREMENT, VALUES OF 0.0 INDICATE THAT THE SAMPLE WAS NOT ANALYZED FOR THAT PARAMETER.

pLIGAND=15.59 DILUTION FACTOR= 1.00

DATE	LAB NO.	SERIAL NO.	COUNTY	ACRES	FIELD	SOIL
04/27/95	8280	069975	CENTRE	00	MAN	UNSPECIFIED

AGRICULTURAL ANALYTICAL SERVICES LABORATORY
COLLEGE OF AGRICULTURAL SCIENCES
THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PA 16802
(814 863-0841)

SOIL TEST REPORT FOR:

LMD INC
3048 RESEARCH DR
STATE COLLEGE PA 16801

COPY SENT TO:

00000

SOIL NUTRIENT LEVELS:

		Value	Unit	LOW / OPTIMUM / HIGH / EXCESSIVE
Soil pH		4.8		X
Phosphate	(P_2O_5)	351	lb/A	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Potash	(K_2O)	84	lb/A	XXXXXX
Magnesium	(MgO)	114	lb/A	XXXX

RECOMMENDATIONS FOR: *PLANTING MIXED GRASSES* (For other crops see ST 2 column: 7)

See Back For Comments

YIELD GOAL 5.0 TONS (PER ACRE)

LIMESTONE: *11300* lb/A Calcium Carbonate Equivalent 1,2 3,4

FOR A 9 - 11" PLOW DEPTH, THE LIMESTONE RECOMMENDATION WAS MULTIPLIED BY 1.5

PLANT NUTRIENT NEEDS:

NITROGEN (N)	PHOSPHATE (P_2O_5)	POTASH (K_2O)	MAGNESIUM (MgO)	
20 lb/A	*0* lb/A	*290* lb/A	*290* lb/A	5

MESSAGES:

* USE A STARTER FERTILIZER (FOR DETAILS, SEE COMMENTS ON BACK--->) 6
* FOR ALFALFA AND BARLEY, THE PH GOAL IS 7.0. FOR ALL OTHER CROPS, THE LIMESTONE RECOMMENDATION, IF ANY, IS TO BRING THE PH TO 6.5. TO ESTIMATE THE LIME REQUIREMENT FOR PH 7.0 FOR THESE CROPS, MULTIPLY THE EXCHANGEABLE ACIDITY BY 1000.
* RECOMMENDED LIMESTONE CONTAINING 2.5% MGO WILL MEET THE MG REQUIREMENT.
* IF MANURE WILL BE APPLIED, SEE ST-10 "USE OF MANURE". 9
* AN ADDITIONAL 30 LB. OF NITROGEN CAN BE APPLIED IN THE LATE SUMMER IF PRODUCTION WARRANTS.
* IN FOLLOWING YEARS, APPLY 40 LBS. OF N PER TON OF YIELD EXPECTED FROM EACH CUTTING. FOR OPTIMUM EFFICIENCY, THE NITROGEN SHOULD BE APPLIED SEPERATELY FOR EACH CUTTING.

LABORATORY RESULTS:

SOIL pH	P lb/A	ACIDITY	K	Mg	Ca	CEC	K	Mg	Ca
		EXCHANGEABLE CATIONS (meq/100 g)					% SATURATION		
4.8	153	9.0	0.09	0.3	1.0	10.4	0.8	2.8	9.6

OTHER TESTS:

SOIL0 1 AGRONOMIC

INDUSTRI-PLEX SITE REMEDIAL TRUST
ATTN PETER NEUMANN
41 ATLANTIC AVE
BURN MA 01801

LAND MANAGEMENT DECISIONS, INC.
3048 RESEARCH DRIVE
STATE COLLEGE, PA 16801

LMD™ INTERPRETATION OF BAKER SOIL TEST (BST) DATA.

THE BST IS ASTM OFFICIAL METHOD # D5435-93. STANDARD DIAGNOSTIC SOIL TEST FOR PLANT GROWTH AND FOOD CHAIN PROTECTION.

IDENTIFICATION	DATE	LAB NO	COUNTY	SOIL	LIME REQ.(T/AC)	SOIL PH	BST PH	CEC (MEQ/100 G)	SP. COND.
B31	04-28-1995	8280			5.70	4.80	5.10	10.40	0.00

	TEST LEVEL	LOW	NORMAL	HIGH
PHOSPHORUS:				
CALCULATED EPC(PPB)	101.22			
Mehlich 3 P (PPM)	76.50			
BAKER SOIL TEST POTASSIUM:				
BST pK	3.60			
BST K (PPM)	11.30			
Exchangeable (ppm)	35.10			
Percent Of CEC	0.87			
BAKER SOIL TEST MAGNESIUM:				
BST pMg	3.27			
BST Mg (PPM)	23.00			
Exchangeable (PPM)	36.00			
Percent of CEC	2.88			
BAKER SOIL TEST CALCIUM:				
BST pCa	2.66			
Ca (PPM)	156.00			
angeable (PPM)	200.00			
cent of CEC	9.62			
BAKER SOIL TEST CATION RATIOS:				
(Ca plus Mg)/H	3.82			
Mg/K	1.97			
Ca/Mg	0.60			

		LOW	NORMAL OPTIMUM	HIGH
BAKER SOIL TEST MANGANESE:				
BST pMn	7.20			
BST Mn (PPM)	9.50			
BAKER SOIL TEST IRON:				
BST pFe	18.69			
BST Fe (PPM)	55.00			
BAKER SOIL TEST COPPER:				
BST pCu	13.90			
BST Cu (PPM)	1.50			
BAKER SOIL TEST ZINC:				
BST pZn	11.29			
Zn (PPM)	1.90			
		LOW	NORMAL OPTIMUM	HIGH

INDUSTRI-PLEX SITE REMEDIFILE B31

```
                                                          NORMAL
                              |----------LOW----------|--------------------OPTIMUM--------------------|----------HIGH----------|
 ON-ESSENTIAL ELEMENTS        |                       |                                            |                        |
                              |                       |                                            |                        |
BAKER SOIL TEST SODIUM:       |                       |                                            |                        |
 BST  Na (PPM)        78.00   ****************************************          |                   |                        |
                              |                       |                                            |                        |
BAKER SOIL TEST ALUMINUM:     |                       |                                            |                        |
 BST  Al (PPM)        61.00   ******************************************************************************************|
 BST  pAl              9.81   ******************************************************************************************
                              |                       |                                            |                        |
BAKER SOIL TEST LEAD:         |                       |                                            |                        |
 BST  Pb (PPM)         4.50   ********************************                |                   |                        |
 BST  pPb             11.08   ********************************                |                   |                        |
                              |                       |                                            |                        |
BAKER SOIL TEST FOR NICKEL:   |                       |                                            |                        |
 BST  Ni (PPM)         0.60   *************************                         |                   |                        |
 BST  pNi             13.69   ************************************              |                   |                        |
                              |                       |                                            |                        |
BAKER SOIL TEST FOR CADMIUM:  |                       |                                            |                        |
 BST  Cd (PPM)         0.10   *************************|                        |                   |                        |
 BST  pCd             12.71   ****************************************************                |                        |
                              |                       |                                            |                        |
                              |----------LOW----------|--------------------NORMAL-------------------|----------HIGH----------|
                                                                          OPTIMUM
```

PK, PMG, PCA, PAL, ETC. INDICATE THE AVAILABILITY OF RESPECTIVE ELEMENTS AND ARE CALCULATED NEGATIVE LOGARITHMS OF IONIC ACTIVITIES WHICH ARE ANALOGOUS TO PH, ACTIVITY OF THE HYDROGEN ION.

OTE: SAMPLE ID: TOPSOIL FROM MANCHESTER NH
VOLATILE SOLIDS (APPROS. ORGANIC MATTER) 4.8%
BST Cd <0.1 PPM

EXCEPT FOR LIME REQUIREMENT, VALUES OF 0.0 INDICATE THAT THE SAMPLE WAS NOT ANALYZED FOR THAT PARAMETER.

pLIGAND=16.29 DILUTION FACTOR= 1.00
IF pLIGAND IS GREATER THAN 15.5, THE pMETALS WILL BE HIGH, AND RESULTS FOR METALS WILL BE LOW. ACCURATE RESULTS CAN BE OBTAINED FOR HIGH METAL SOILS BY TESTING HALF AS MUCH SOIL AND INCLUDE A DILUTION FACTOR OF 2 FOR CALCULATIONS.

UNIVERSITY OF MASSACHUSETTS
EXTENSION

West Experiment Station
Box 38010
Amherst, MA 01003-8010

Agroecology Program
Soil and Plant Tissue Testing Laboratory
413-545-2311
413-545-1931 Fax

TEXTURAL ANALYSIS RESULTS

Customer Name: Monsanto Industrial Chemical
Ken Lafferty/John Fione
1 Mystic Veiw Road
Everett, MA 02149

Sample ID: S970529-112

Customer Designation: AAW-001

Percentages based on less than 2 mm fraction

Fraction	Percent
Sand	65.0
Silt	29.8
Clay	5.2
	100.0

Sand Subfractions	
Very Coarse	8.3
Coarse	13.9
Medium	17.0
Fine	18.2
Very Fine	7.5
	65.0

Silt subfractions	
Coarse	15.6
Medium	10.4
Fine	3.8
	29.8

Under USDA criteria this sample classifies as a sandy loam. Classification is based on particles that are sand size and finer (i.e. less than 2 millimeters in diameter). Those particles greater than 2 mm are included in the textural name as a modifier (ex. gravelly). The sample submitted contained 17.9 % gravel on a weight basis. Any questions pertaining to these results may asked by calling the Soil Testing Lab.

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SOIL ANALYSIS REPORT FOR NEW LAWN 06/03/97

SOIL AND PLANT TISSUE TESTING LAB
WEST EXPERIMENT STATION
UNIVERSITY OF MASSACHUSETTS
AMHERST, MA 01003

LAB NUMBER: S970529-112
BAG NUMBER: 33112

DATE SENT: / /

SOIL FROM COUNTY

SOIL WEIGHT: 6.42 g/5cc
CROP: ANNUALS

KEN LAFFERTY
1 MYSTIC VIEW ROAD
EVERETT, MA 02149

COMMENTS: FAX RESULTS: 617-387-612
5.

SAMPLE ID: AAW 001/MONSONTO

LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR NEW LAWN CONSTRUCTION

Apply 96 lb of limestone/1000 sq ft.
Incorporate lime thoroughly into top 6 inches of soil.

Fertilizer (per 1000 sq ft): 1-2 lbs N, 4 lbs P2O5, and 1 lbs K2O.

Many fertilizer sources and rates may combine to provide acceptable turfgrass establishment either from seed or sod. One or two options based on this soil test follow:

Incorporate a 15-25-10 starter lawn fertilizer at 15 lbs/1000 sq ft into the top 3 to 4 inches of soil. Retest soil one year after turf establishment.

PLEASE read the enclosed fact sheets for more specific information on fertilization and liming procedures.

SOIL pH 5.9 NITROGEN: NO3-N = 46 ppm NH4-N = 7 ppm
BUFFER pH 6.6 ORGANIC MATTER: 5.8 % (Desirable range 4-10%)

NUTRIENT LEVELS:	PPM	Low Medium High Very High
Phosphorus (P)	5	XXXXXXXX
Potassium (K)	121	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Calcium (Ca)	1032	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Magnesium (Mg)	128	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

CATION EXCH CAP
8.4 Meq/100g

PERCENT BASE SATURATION
K= 2.9 Mg= 9.9 Ca=48.4

MICRONUTRIENT LEVELS
ALL NORMAL

EXTRACTABLE ALUMINUM: 101 ppm (Soil range: 10-250 ppm)

The lead level in this soil is low.

COMPUTER PROGRAM & RECOMMENDATIONS BY DEPT OF PLANT & SOIL SCI UMASS-AMHERST.
For further information contact the Soil Testing Lab at (413) 545-2311.

SOIL ANALYSIS REPORT FOR BROADLEAF EVERGREENS 06/03/97

SOIL AND PLANT TISSUE TESTING LAB
WEST EXPERIMENT STATION
UNIVERSITY OF MASSACHUSETTS
AMHERST, MA 01003

LAB NUMBER: S970529-112
BAG NUMBER: 33112

DATE SENT: / /

SOIL FROM COUNTY

SOIL WEIGHT: 6.42 g/5cc
CROP: ANNUALS

KEN LAFFERTY
1 MYSTIC VIEW ROAD
EVERETT, MA 02149

COMMENTS: FAX RESULTS: 617-387-612
5.

SAMPLE ID: AAW 001/MONSONTO

RECOMMENDATIONS FOR BROADLEAF EVERGREEN SHRUBS AND GROUND COVERS:

SOIL PH ADJUSTMENT:

Soil pH is too high. For new plantings you may incorporate sulfur at 3 cups per cubic yard of soil; OR consider plants better adapted to this soil pH.
For established plantings you may carefully topdress soil with sulfur at 2 cups/100 sq ft and maintain an acidic organic mulch. such as pine needles.

FERTILIZER:

* Your soil may contain a sufficient quantity of available nitrogen. For established plantings you may decrease your recommendation by 1/2 or delay fertilizing for one year.

The organic matter in this soil is adequate for many woody ornamentals. Maintaining a mulch will, however, conserve moisture and protect the soil surface.

PREPLANT PREPARATION: In the early fall preceeding planting incorporate 1 part finished compost or leaf mold into 10 parts soil along with 2 cups bone meal per cubic yard of backfill;
OR in early spring incorporate 1 part finished compost or leaf mold into 10 parts soil along with 1 cup dried blood and 2 cups bone meal per cubic yard of backfill.

ESTABLISHED PLANTINGS: In the early fall topdress with 12 cups cottonseed meal or millorganite-type fertilizer along with 1 cup bone meal per 100 square feet and gently scratch into the soil surface; OR in early spring topdress 1 cup 10-6-4 fertilizer per 100 square feet.

SOIL pH 5.9 NITROGEN: NO3-N = 46 ppm NH4-N = 7 ppm
BUFFER pH 6.6 ORGANIC MATTER: 5.8 % (Desirable range 4-10%)

NUTRIENT_LEVELS:	PPM	Low	Medium	High	Very High
Phosphorus (P)	5	XXXXXXXX			
Potassium (K)	121	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			
Calcium (Ca)	1032	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
Magnesium (Mg)	128	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			

CATION EXCH CAP 8.4 Meq/100g

PERCENT BASE SATURATION K= 2.9 Mg= 9.9 Ca=48.4

MICRONUTRIENT LEVELS ALL NORMAL

EXTRACTABLE ALUMINUM: 101 ppm (Soil range: 10-250 ppm)

SOIL ANALYSIS REPORT FOR HOME GARDENS 06/03/97

SOIL AND PLANT TISSUE TESTING LAB
WEST EXPERIMENT STATION
UNIVERSITY OF MASSACHUSETTS
AMHERST, MA 01003

LAB NUMBER: S970529-112
BAG NUMBER: 33112

DATE SENT: / /

SOIL FROM COUNTY

SOIL WEIGHT: 6.42 g/5cc
CROP: ANNUALS

KEN LAFFERTY
1 MYSTIC VIEW ROAD
EVERETT, MA 02149

COMMENTS: FAX RESULTS: 617-387-612
5.

SAMPLE ID: AAW 001/MONSONTO

RECOMMENDATIONS FOR HOME GARDENS:

LIME: Total lime required is 13 lbs of ground limestone per 100 sq ft.
When NEEDED, up to 20 lbs/100 sq ft of lime maybe applied at one time if it is incorporated into the top 7 inches of soil; otherwise apply 5 lbs/100 sq ft to the surface in the early spring and in the fall.
Test the soil again next year.
** Potatoes should not be limed.

FERTILIZER:
** Your soil contains sufficient levels of potassium. You may apply the standard recommendations below, or you may provide sufficient nitrogen and phosphorus by using alternate sources to provide about 1/4 lb nitrogen and about 1/4 lb phosphorus per 100 sq ft.

** VEGETABLES: Apply 3-4 lbs 5-10-5 per 100 sq ft in early spring.

** ANNUAL FLOWERS: Apply 1.5 lbs 5-10-5 per 100 sq ft in early spring. Alternatively you may use one-half the ORGANIC recommendation given above.

** ROSE BUSHES: Apply 4 tablespoons of 5-10-5 per bush in early June and early August. None after August 15.

Avoid overfertilizing which can cause plant toxicity and can contribute to insect and disease problems.

SOIL pH 5.9 NITROGEN: NO3-N = 46 ppm NH4-N = 7 ppm
BUFFER pH 6.6 ORGANIC MATTER: 5.8 % (Desirable range 4-10%)

NUTRIENT_LEVELS:	PPM	Low Medium High Very High
Phosphorus (P)	5	XXXXXXXX
Potassium (K)	121	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Calcium (Ca)	1032	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Magnesium (Mg)	128	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

CATION EXCH CAP
8.4 Meq/100g

PERCENT BASE SATURATION
K= 2.9 Mg= 9.9 Ca=48.4

MICRONUTRIENT LEVELS
ALL NORMAL

EXTRACTABLE ALUMINUM: 101 ppm (Soil range: 10-250 ppm)

The lead level in this soil is low.

COMPUTER PROGRAM & RECOMMENDATIONS BY DEPT OF PLANT & SOIL SCI UMASS-AMHERST.
For further information contact the Soil Testing Lab at (413) 545-2311.

APPENDIX H.5

SOIL AND ROCK MATERIAL QUANTITIES

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
MAC 300 PUMP (Concrete)	9/17/96	120	CY	3 - U.G.T
MAC 300 PUMP (Concrete)	9/20/96	230		3 - U.G.T
1" LYNPAC DG	9/20/96	33.26	TONS	DRAINAGE STR. GRAVEL BORROW
		31.03		DRAINAGE STR. GRAVEL BORROW
		32.35		DRAINAGE STR. GRAVEL BORROW
		32.26		DRAINAGE STR. GRAVEL BORROW
		31.25		DRAINAGE STR. GRAVEL BORROW
		31.16		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	9/23/96	33.11		DRAINAGE STR. GRAVEL BORROW
		36.22		DRAINAGE STR. GRAVEL BORROW
		34.85		DRAINAGE STR. GRAVEL BORROW
		35.03		DRAINAGE STR. GRAVEL BORROW
		36.9		DRAINAGE STR. GRAVEL BORROW
		34.13		DRAINAGE STR. GRAVEL BORROW
		34.83		DRAINAGE STR. GRAVEL BORROW
		33.40		DRAINAGE STR. GRAVEL BORROW
		33.92		DRAINAGE STR. GRAVEL BORROW
		33.32		DRAINAGE STR. GRAVEL BORROW
		34.66		DRAINAGE STR. GRAVEL BORROW
		31.59		DRAINAGE STR. GRAVEL BORROW
AREA #4	9/25/96	31.86		RR BALLAST
		31.54		
MAC 50 (Concrete)	9/27/96	36	CY	MANHOLES WEST OF BLDG.
20-3/4-HYC (Concrete)	10/3/96	4.5	CY	U.G. STR. NEAR COAL TUNNEL
MAC 50 (Concrete)	10/3/96	9	CY	U.G. STR. NEAR COAL TUNNEL
1" LYNPAC DG	10/9/96	34.47	TONS	DRAINAGE STR. GRAVEL BORROW
		32.5		DRAINAGE STR. GRAVEL BORROW
		32.51		DRAINAGE STR. GRAVEL BORROW
		32.94		DRAINAGE STR. GRAVEL BORROW
		33.94		DRAINAGE STR. GRAVEL BORROW
40-3/4-HYC (Concrete)	10/18/96	11	CY	SED STR. FOOTING
		5		SED. STR. FOOTING
1" LYNPAC DG	10/17/96	35.77	TONS	DRAINAGE STR. GRAVEL BORROW
		35.12		DRAINAGE STR. GRAVEL BORROW
		34.46		DRAINAGE STR. GRAVEL BORROW
		35.56		DRAINAGE STR. GRAVEL BORROW
		35.86		DRAINAGE STR. GRAVEL BORROW
		35.45		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	10/31/96	35.2		DRAINAGE STR. GRAVEL BORROW
		34.79		DRAINAGE STR. GRAVEL BORROW
		33.36		DRAINAGE STR. GRAVEL BORROW
		34.41		DRAINAGE STR. GRAVEL BORROW
		34.64		DRAINAGE STR. GRAVEL BORROW
		33.57		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	10/8/96	34.24		DRAINAGE STR. GRAVEL BORROW
		32.72		DRAINAGE STR. GRAVEL BORROW
		35.24		DRAINAGE STR. GRAVEL BORROW

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY	PLACEMENT
1" LYNPAC DG	10/8/96	34.36 TONS	DRAINAGE STR. GRAVEL BORROW
		36.04	DRAINAGE STR. GRAVEL BORROW
		35.77	DRAINAGE STR. GRAVEL BORROW
1 1/2" AREA 4	10/16/96	30.15	RR BALLAST
		30.4	RR BALLAST
1" LYNPAC DG	10/15/96	32.66	DRAINAGE STR. GRAVEL BORROW
		31.58	DRAINAGE STR. GRAVEL BORROW
		33.22	DRAINAGE STR. GRAVEL BORROW
AREA #4	10/15/96	33.18	RR BALLAST
1" LYNPAC DG	11/5/96	35.18	DRAINAGE STR. GRAVEL BORROW
		33.62	DRAINAGE STR. GRAVEL BORROW
		35.62	DRAINAGE STR. GRAVEL BORROW
		35.55	DRAINAGE STR. GRAVEL BORROW
		35.34	DRAINAGE STR. GRAVEL BORROW
1 1/2" AREA 4	11/5/96	21.3	RR BALLAST
		21.75	RR BALLAST
1" LYNPAC DG	11/8/96	36.98	DRAINAGE STR. GRAVEL BORROW
		34.54	DRAINAGE STR. GRAVEL BORROW
		34.55	DRAINAGE STR. GRAVEL BORROW
		35.98	DRAINAGE STR. GRAVEL BORROW
		34.51	DRAINAGE STR. GRAVEL BORROW
1 1/2" AREA 4	11/14/96	12.60	RR BALLAST
		30.60	RR BALLAST
		32.10	RR BALLAST
1 1/2" AREA 4	11/14/96	14.55	RR BALLAST
		15.45	RR BALLAST
		12.60	RR BALLAST
		15.00	RR BALLAST
		14.10	RR BALLAST
1" LYNPAC DG	11/15/96	36.63	DRAINAGE STR. GRAVEL BORROW
		32.43	DRAINAGE STR. GRAVEL BORROW
		34.76	DRAINAGE STR. GRAVEL BORROW
		35.46	DRAINAGE STR. GRAVEL BORROW
		35.84	DRAINAGE STR. GRAVEL BORROW
SURGE STONE	11/15/96	32.07	ATLANTIC AVENUE DRAINWAY
		31.53	ATLANTIC AVENUE DRAINWAY
		33.47	ATLANTIC AVENUE DRAINWAY
		33.96	ATLANTIC AVENUE DRAINWAY
		34.24	ATLANTIC AVENUE DRAINWAY
SURGE STONE	11/16/96	29.88	ATLANTIC AVENUE DRAINWAY
		26.18	ATLANTIC AVENUE DRAINWAY
SURGE STONE	11/18/96	35.79	ATLANTIC AVENUE DRAINWAY
		34.59	ATLANTIC AVENUE DRAINWAY
		34.40	ATLANTIC AVENUE DRAINWAY
		32.74	ATLANTIC AVENUE DRAINWAY
		35.81	ATLANTIC AVENUE DRAINWAY
		26.77	ATLANTIC AVENUE DRAINWAY

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
SURGE STONE	11/18/96	35.19	TONS	ATLANTIC AVENUE DRAINWAY
		28.50		ATLANTIC AVENUE DRAINWAY
		33.21		ATLANTIC AVENUE DRAINWAY
		32.79		ATLANTIC AVENUE DRAINWAY
		35.80		ATLANTIC AVENUE DRAINWAY
40-3/4-HYC (Concrete)	11/18/96	60	CY	SED STR. WALLS
1" LYNPAC DG	11/18/96	34.14	TONS	DRAINAGE STR. GRAVEL BORROW
		33.60		DRAINAGE STR. GRAVEL BORROW
		35.34		DRAINAGE STR. GRAVEL BORROW
		34.34		DRAINAGE STR. GRAVEL BORROW
		34.69		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	11/18/96	35.37		DRAINAGE STR. GRAVEL BORROW
		35.34		DRAINAGE STR. GRAVEL BORROW
		35.76		DRAINAGE STR. GRAVEL BORROW
		35.60		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	11/18/96	34.48	TONS	DRAINAGE STR. GRAVEL BORROW
		34.79		DRAINAGE STR. GRAVEL BORROW
		36.42		DRAINAGE STR. GRAVEL BORROW
		34.85		DRAINAGE STR. GRAVEL BORROW
		34.93		DRAINAGE STR. GRAVEL BORROW
		34.14		DRAINAGE STR. GRAVEL BORROW
		34.61		DRAINAGE STR. GRAVEL BORROW
		33.74		DRAINAGE STR. GRAVEL BORROW
		34.14		DRAINAGE STR. GRAVEL BORROW
3/4" STONE	11/19/96	29.90		ALT COVER SURFACE
		30.69		ALT COVER SURFACE
SURGE STONE	11/19/96	35.46		ATLANTIC AVENUE DRAINWAY
		34.63		ATLANTIC AVENUE DRAINWAY
		34.71		ATLANTIC AVENUE DRAINWAY
		31.14		ATLANTIC AVENUE DRAINWAY
		31.09		ATLANTIC AVENUE DRAINWAY
		26.87		ATLANTIC AVENUE DRAINWAY
		29.20		ATLANTIC AVENUE DRAINWAY
		26.94		ATLANTIC AVENUE DRAINWAY
		26.89		ATLANTIC AVENUE DRAINWAY
		34.32		ATLANTIC AVENUE DRAINWAY
		30.91		ATLANTIC AVENUE DRAINWAY
		30.51		ATLANTIC AVENUE DRAINWAY
		30.61		ATLANTIC AVENUE DRAINWAY
		29.35		ATLANTIC AVENUE DRAINWAY
		29.28		ATLANTIC AVENUE DRAINWAY
		30.81		ATLANTIC AVENUE DRAINWAY
		34.69		ATLANTIC AVENUE DRAINWAY
		31.63		ATLANTIC AVENUE DRAINWAY
		31.71		ATLANTIC AVENUE DRAINWAY
		30.11		ATLANTIC AVENUE DRAINWAY
		29.80		ATLANTIC AVENUE DRAINWAY

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
SURGE STONE	11/19/96	29.25	TONS	ATLANTIC AVENUE DRAINWAY
		33.28		ATLANTIC AVENUE DRAINWAY
		31.39		ATLANTIC AVENUE DRAINWAY
		30.50		ATLANTIC AVENUE DRAINWAY
		30.95		ATLANTIC AVENUE DRAINWAY
		29.26		ATLANTIC AVENUE DRAINWAY
		30.63		ATLANTIC AVENUE DRAINWAY
		30.30		ATLANTIC AVENUE DRAINWAY
		34.69		ATLANTIC AVENUE DRAINWAY
		30.77		ATLANTIC AVENUE DRAINWAY
		31.19		ATLANTIC AVENUE DRAINWAY
SURGE STONE	11/19/96	28.40		ATLANTIC AVENUE DRAINWAY
		30.69		ATLANTIC AVENUE DRAINWAY
		34.08		ATLANTIC AVENUE DRAINWAY
		30.24		ATLANTIC AVENUE DRAINWAY
SURGE STONE	11/19/96	31.74	TONS	ATLANTIC AVENUE DRAINWAY
		29.62		ATLANTIC AVENUE DRAINWAY
		29.39		ATLANTIC AVENUE DRAINWAY
		29.25		ATLANTIC AVENUE DRAINWAY
		27.29		ATLANTIC AVENUE DRAINWAY
		26.38		ATLANTIC AVENUE DRAINWAY
		26.87		ATLANTIC AVENUE DRAINWAY
		25.06		ATLANTIC AVENUE DRAINWAY
		27.84		ATLANTIC AVENUE DRAINWAY
		25.80		ATLANTIC AVENUE DRAINWAY
1" LYNPAC DG	11/20/96	34.56		DRAINAGE STR. GRAVEL BORROW
		34.11		DRAINAGE STR. GRAVEL BORROW
		34.84		DRAINAGE STR. GRAVEL BORROW
		34.91		DRAINAGE STR. GRAVEL BORROW
		35.02		DRAINAGE STR. GRAVEL BORROW
		33.80		DRAINAGE STR. GRAVEL BORROW
		35.64		DRAINAGE STR. GRAVEL BORROW
		35.12		DRAINAGE STR. GRAVEL BORROW
		33.71		DRAINAGE STR. GRAVEL BORROW
		35.00		DRAINAGE STR. GRAVEL BORROW
		34.19		DRAINAGE STR. GRAVEL BORROW
		34.82		DRAINAGE STR. GRAVEL BORROW
		35.36		DRAINAGE STR. GRAVEL BORROW
		34.23		DRAINAGE STR. GRAVEL BORROW
		34.92		DRAINAGE STR. GRAVEL BORROW
		33.66		DRAINAGE STR. GRAVEL BORROW
		34.62		DRAINAGE STR. GRAVEL BORROW
		34.58		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	11/21/96	33.28		DRAINAGE STR. GRAVEL BORROW
		35.34		DRAINAGE STR. GRAVEL BORROW
		34.22		DRAINAGE STR. GRAVEL BORROW
		35.75		DRAINAGE STR. GRAVEL BORROW

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1" LYNPAC DG	11/21/96	36.72	TONS	DRAINAGE STR. GRAVEL BORROW
		34.95		DRAINAGE STR. GRAVEL BORROW
		35.75		DRAINAGE STR. GRAVEL BORROW
		34.40		DRAINAGE STR. GRAVEL BORROW
		34.13		DRAINAGE STR. GRAVEL BORROW
		33.52		DRAINAGE STR. GRAVEL BORROW
		34.69		DRAINAGE STR. GRAVEL BORROW
		35.13		DRAINAGE STR. GRAVEL BORROW
		34.69		DRAINAGE STR. GRAVEL BORROW
		35.42		DRAINAGE STR. GRAVEL BORROW
		34.86		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	11/21/96	34.99		DRAINAGE STR. GRAVEL BORROW
		35.08		DRAINAGE STR. GRAVEL BORROW
		35.26		DRAINAGE STR. GRAVEL BORROW
3/4" STONE	11/21/96	35.27		ALT COVER SURFACE
3/4" STONE	11/21/96	34.70	TONS	ALT COVER SURFACE
		34.01		ALT COVER SURFACE
		33.33		ALT COVER SURFACE
		33.96		ALT COVER SURFACE
40-3/4-HYC (Concrete)	11/21/96	14	CY	AAD HEADWALL FOOTING
1" LYNPAC DG	11/22/96	31.30	TONS	DRAINAGE STR. GRAVEL BORROW
		32.94		DRAINAGE STR. GRAVEL BORROW
		33.58		DRAINAGE STR. GRAVEL BORROW
		32.26		DRAINAGE STR. GRAVEL BORROW
		31.46		DRAINAGE STR. GRAVEL BORROW
		33.82		DRAINAGE STR. GRAVEL BORROW
3/4" STONE	11/25/96	31.65		ALT. COVER SURFACE
		31.58		ALT. COVER SURFACE
		35.24		ALT. COVER SURFACE
		33.64		ALT. COVER SURFACE
		35.40		ALT. COVER SURFACE
1" LYNPAC DG	11/25/96	34.94		DRAINAGE STR. GRAVEL BORROW
		34.13		DRAINAGE STR. GRAVEL BORROW
		35.51		DRAINAGE STR. GRAVEL BORROW
		34.55		DRAINAGE STR. GRAVEL BORROW
		34.76		DRAINAGE STR. GRAVEL BORROW
		33.81		DRAINAGE STR. GRAVEL BORROW
SURGE STONE	11/25/96	32.19		ATLANTIC AVENUE DRAINWAY
TYPE C 12" MINUS	11/25/96	32.5		ATLANTIC AVENUE DRAINWAY
		32.51		ATLANTIC AVENUE DRAINWAY
		32.21		ATLANTIC AVENUE DRAINWAY
		32.15		ATLANTIC AVENUE DRAINWAY
		32.64		ATLANTIC AVENUE DRAINWAY
3/4" STONE	11/25/96	35.27		ALT COVER SURFACE
		33.86		ALT COVER SURFACE
		35.26		ALT COVER SURFACE
		31.95		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	11/25/96	34.24	TONS	ALT COVER SURFACE
		34.53		ALT COVER SURFACE
		34.23		ALT COVER SURFACE
		31.12		ALT COVER SURFACE
		35.81		ALT COVER SURFACE
		35.36		ALT COVER SURFACE
1" LYNPAC DG	11/26/96	35.38		DRAINAGE STR. GRAVEL BORROW
		35.12		DRAINAGE STR. GRAVEL BORROW
		34.78		DRAINAGE STR. GRAVEL BORROW
		35.47		DRAINAGE STR. GRAVEL BORROW
		36.48		DRAINAGE STR. GRAVEL BORROW
		34.64		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	11/27/96	35.36		DRAINAGE STR. GRAVEL BORROW
		34.61		DRAINAGE STR. GRAVEL BORROW
		34.85		DRAINAGE STR. GRAVEL BORROW
		35.81		DRAINAGE STR. GRAVEL BORROW
		33.36		DRAINAGE STR. GRAVEL BORROW
		36.39		DRAINAGE STR. GRAVEL BORROW
		35.11		DRAINAGE STR. GRAVEL BORROW
		32.05		DRAINAGE STR. GRAVEL BORROW
		35.84		DRAINAGE STR. GRAVEL BORROW
		35.93		DRAINAGE STR. GRAVEL BORROW
TYPE C 12" MINUS	11/27/96	32.41		ATLANTIC AVENUE DRAINWAY
		32.40		ATLANTIC AVENUE DRAINWAY
		32.20		ATLANTIC AVENUE DRAINWAY
		32.08		ATLANTIC AVENUE DRAINWAY
		32.57		ATLANTIC AVENUE DRAINWAY
		32.17		ATLANTIC AVENUE DRAINWAY
		29.51		ATLANTIC AVENUE DRAINWAY
		28.79		ATLANTIC AVENUE DRAINWAY
		32.08		ATLANTIC AVENUE DRAINWAY
		31.62		ATLANTIC AVENUE DRAINWAY
3/4" STONE	11/29/96	35.14	TONS	ALT COVER SURFACE
		35.73		ALT COVER SURFACE
		35.23		ALT COVER SURFACE
		32.62		ALT COVER SURFACE
		30.22		ALT COVER SURFACE
		30.53		ALT COVER SURFACE
		34.59		ALT COVER SURFACE
		34.25		ALT COVER SURFACE
		33.02		ALT COVER SURFACE
		25.99		ALT COVER SURFACE
		30.12		ALT COVER SURFACE
		32.56		ALT COVER SURFACE
		29.76		ALT COVER SURFACE
		35.86		ALT COVER SURFACE
		32.27		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY	PLACEMENT
3/4" STONE	11/29/96	32.77 TONS	ALT COVER SURFACE
		33	ALT COVER SURFACE
		25.26	ALT COVER SURFACE
		31.99	ALT COVER SURFACE
		34.62	ALT COVER SURFACE
		31.1	ALT COVER SURFACE
		34.46	ALT COVER SURFACE
		33.79	ALT COVER SURFACE
		34.5	ALT COVER SURFACE
		34.56	ALT COVER SURFACE
		26.23	ALT COVER SURFACE
		30.79	ALT COVER SURFACE
		34.45	ALT COVER SURFACE
		30.96	ALT COVER SURFACE
		33.77	ALT COVER SURFACE
		34.67	ALT COVER SURFACE
		31.53	ALT COVER SURFACE
		35.18	ALT COVER SURFACE
		33.79	ALT COVER SURFACE
		25.24	ALT COVER SURFACE
		31.46	ALT COVER SURFACE
		35.03	ALT COVER SURFACE
		34.33	ALT COVER SURFACE
		33.38	ALT COVER SURFACE
		33.81	ALT COVER SURFACE
		36.04	ALT COVER SURFACE
		30.96	ALT COVER SURFACE
		31.21	ALT COVER SURFACE
		32.32	ALT COVER SURFACE
		33.53	ALT COVER SURFACE
		32.62	ALT COVER SURFACE
		29.89	ALT COVER SURFACE
3/4" STONE	11/29/96	29.89 TONS	ALT COVER SURFACE
		34.35	ALT COVER SURFACE
		24.75	ALT COVER SURFACE
		30.61	ALT COVER SURFACE
		31.91	ALT COVER SURFACE
		31.41	ALT COVER SURFACE
		33.13	ALT COVER SURFACE
		31.26	ALT COVER SURFACE
3/4" STONE	11/30/96	33.82	ALT COVER SURFACE
		36.57	ALT COVER SURFACE
		34.57	ALT COVER SURFACE
		32.78	ALT COVER SURFACE
		36.4	ALT COVER SURFACE
		34.45	ALT COVER SURFACE
		30.85	ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	11/30/96	34.75	TONS	ALT COVER SURFACE
		35.62		ALT COVER SURFACE
		33.52		ALT COVER SURFACE
		33.5		ALT COVER SURFACE
		36.37		ALT COVER SURFACE
		31.98		ALT COVER SURFACE
		34.7		ALT COVER SURFACE
		35.25		ALT COVER SURFACE
		32.64		ALT COVER SURFACE
		36.05		ALT COVER SURFACE
		32.59		ALT COVER SURFACE
		35.81		ALT COVER SURFACE
		32.69		ALT COVER SURFACE
		35.47		ALT COVER SURFACE
		36.31		ALT COVER SURFACE
		33.21		ALT COVER SURFACE
		31.93		ALT COVER SURFACE
		35.76		ALT COVER SURFACE
		34.85		ALT COVER SURFACE
		32.82		ALT COVER SURFACE
		34.1		ALT COVER SURFACE
		35.55		ALT COVER SURFACE
		32.61		ALT COVER SURFACE
		32.78		ALT COVER SURFACE
		35.31		ALT COVER SURFACE
		34.11		ALT COVER SURFACE
1" LYNPAC DG	11/30/96	36.4		DRAINAGE STR. GRAVEL BORROW
		37.41		DRAINAGE STR. GRAVEL BORROW
		31.79		DRAINAGE STR. GRAVEL BORROW
		35.39		DRAINAGE STR. GRAVEL BORROW
		35		DRAINAGE STR. GRAVEL BORROW
		31.11		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	11/30/96	34.23	TONS	DRAINAGE STR. GRAVEL BORROW
		31.97		DRAINAGE STR. GRAVEL BORROW
		30.07		DRAINAGE STR. GRAVEL BORROW
		36.69		DRAINAGE STR. GRAVEL BORROW
		34.64		DRAINAGE STR. GRAVEL BORROW
		33.34		DRAINAGE STR. GRAVEL BORROW
		36.94		DRAINAGE STR. GRAVEL BORROW
		34.52		DRAINAGE STR. GRAVEL BORROW
		33.45		DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	12/3/96	33.59		DRAINAGE STR. GRAVEL BORROW
		35.34		DRAINAGE STR. GRAVEL BORROW
		33.64		DRAINAGE STR. GRAVEL BORROW
		34.49		DRAINAGE STR. GRAVEL BORROW
		36.5		DRAINAGE STR. GRAVEL BORROW
		34.94		DRAINAGE STR. GRAVEL BORROW

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY	PLACEMENT
1" LYNPAC DG	12/3/96	32.89 TONS	DRAINAGE STR. GRAVEL BORROW
		33.84	DRAINAGE STR. GRAVEL BORROW
1" LYNPAC DG	12/4/96	35.16	DRAINAGE STR. GRAVEL BORROW
		35.07	DRAINAGE STR. GRAVEL BORROW
		35.95	DRAINAGE STR. GRAVEL BORROW
		36.5	DRAINAGE STR. GRAVEL BORROW
		34.89	DRAINAGE STR. GRAVEL BORROW
		35.07	DRAINAGE STR. GRAVEL BORROW
		36	DRAINAGE STR. GRAVEL BORROW
		34.47	DRAINAGE STR. GRAVEL BORROW
		35.2	DRAINAGE STR. GRAVEL BORROW
		34.91	DRAINAGE STR. GRAVEL BORROW
		35.11	DRAINAGE STR. GRAVEL BORROW
		35.04	DRAINAGE STR. GRAVEL BORROW
3/4" STONE	12/3/96	33.71	ALT. COVER SURFACE
		33.24	ALT. COVER SURFACE
		34.08	ALT. COVER SURFACE
		36.79	ALT. COVER SURFACE
3/4" STONE	12/6/96	34.44	ALT. COVER SURFACE
		35.19	ALT. COVER SURFACE
		36.95	ALT. COVER SURFACE
		34.82	ALT. COVER SURFACE
		34.46	ALT. COVER SURFACE
		35.35	ALT. COVER SURFACE
		34.87	ALT. COVER SURFACE
		34.91	ALT. COVER SURFACE
		33.91	ALT. COVER SURFACE
		33.61	ALT. COVER SURFACE
3/4" STONE	12/1/96	31.24	ALT. COVER SURFACE
		34.37	ALT. COVER SURFACE
		31.56	ALT. COVER SURFACE
		33.99	ALT. COVER SURFACE
3/4" STONE	12/1/96	32.01	ALT. COVER SURFACE
3/4" STONE	12/2/96	31.71	ALT. COVER SURFACE
		32.11	ALT. COVER SURFACE
		33.65	ALT. COVER SURFACE
		33.68	ALT. COVER SURFACE
		32.01	ALT. COVER SURFACE
		35.37	ALT. COVER SURFACE
		31.56	ALT. COVER SURFACE
		32.5	ALT. COVER SURFACE
		34.83	ALT. COVER SURFACE
		34.47	ALT. COVER SURFACE
		35.63	ALT. COVER SURFACE
		30.01	ALT. COVER SURFACE
		31.43	ALT. COVER SURFACE
		34.79	ALT. COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	12/2/96	34.9	TONS	ALT. COVER SURFACE
		36.67		ALT. COVER SURFACE
		31.6		ALT. COVER SURFACE
		32.43		ALT. COVER SURFACE
		34.21		ALT. COVER SURFACE
		34.01		ALT. COVER SURFACE
		37.08		ALT. COVER SURFACE
		34.42		ALT. COVER SURFACE
		31.59		ALT. COVER SURFACE
		34.21		ALT. COVER SURFACE
		32.06		ALT. COVER SURFACE
		33.18		ALT. COVER SURFACE
40-3/4-HYC (Concrete)	12/9/96	8	CY	BASE OF NEW MANHOLE & 4'X6' BOX CULVERT
3" STONE	12/9/96	34.94	TONS	ATLANTIC AVENUE DRAINWAY
		33.44		ATLANTIC AVENUE DRAINWAY
		34.42		ATLANTIC AVENUE DRAINWAY
		34.71		ATLANTIC AVENUE DRAINWAY
		34.58		ATLANTIC AVENUE DRAINWAY
		33.31		ATLANTIC AVENUE DRAINWAY
TYPE C 12" MINUS	12/12/96	32.66		ATLANTIC AVENUE DRAINWAY
		34.11		ATLANTIC AVENUE DRAINWAY
		35.83		ATLANTIC AVENUE DRAINWAY
		35.5		ATLANTIC AVENUE DRAINWAY
		33		ATLANTIC AVENUE DRAINWAY
		36.02		ATLANTIC AVENUE DRAINWAY
TYPE C 12" MINUS	12/13/96	32.18		ATLANTIC AVENUE DRAINWAY
		32.59		ATLANTIC AVENUE DRAINWAY
		32.6		ATLANTIC AVENUE DRAINWAY
		32.94		ATLANTIC AVENUE DRAINWAY
		32.57		ATLANTIC AVENUE DRAINWAY
1" LYNPAC DG	12/13/96	31.74		ROAD STR. FILL DETENTION BASIN
		31.95		ROAD STR. FILL DETENTION BASIN
1" LYNPAC DG	12/13/96	32.26	TONS	ROAD STR. FILL DETENTION BASIN
		32.25		ROAD STR. FILL DETENTION BASIN
		31.11		ROAD STR. FILL DETENTION BASIN
40-3/4-HYC (Concrete)	12/13/96	6	CY	MANHOLE & CATCH BASIN INVERTS
1" LYNPAC DG	12/13/96	31.86	TONS	DRAINAGE STR. GRAVEL BORROW
6" MINUS	12/16/96	32.73		ATLANTIC AVENUE DRAINWAY
		33.59		ATLANTIC AVENUE DRAINWAY
		32.87		ATLANTIC AVENUE DRAINWAY
		31.53		ATLANTIC AVENUE DRAINWAY
		32.69		ATLANTIC AVENUE DRAINWAY
		32.68		ATLANTIC AVENUE DRAINWAY
		32.9		ATLANTIC AVENUE DRAINWAY
		31.54		ATLANTIC AVENUE DRAINWAY
		33.69		ATLANTIC AVENUE DRAINWAY
		32.31		ATLANTIC AVENUE DRAINWAY

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY	PLACEMENT
6" MINUS	12/16/96	32.48 TONS	ATLANTIC AVENUE DRAINWAY
		31.8	ATLANTIC AVENUE DRAINWAY
		32.89	ATLANTIC AVENUE DRAINWAY
		31.86	ATLANTIC AVENUE DRAINWAY
1" LYNPAC DG	12/16/96	36.13	ROAD STR. FILL DETENTION BASIN
		35.03	ROAD STR. FILL DETENTION BASIN
		35.58	ROAD STR. FILL DETENTION BASIN
		31.25	ROAD STR. FILL DETENTION BASIN
		31.75	ROAD STR. FILL DETENTION BASIN
		33.33	ROAD STR. FILL DETENTION BASIN
		32.46	ROAD STR. FILL DETENTION BASIN
		32.73	ROAD STR. FILL DETENTION BASIN
		36.19	ROAD STR. FILL DETENTION BASIN
		33.93	ROAD STR. FILL DETENTION BASIN
		34.05	ROAD STR. FILL DETENTION BASIN
		32.1	ROAD STR. FILL DETENTION BASIN
		31.91	ROAD STR. FILL DETENTION BASIN
		33.81	ROAD STR. FILL DETENTION BASIN
		35.61	ROAD STR. FILL DETENTION BASIN
		34.43	ROAD STR. FILL DETENTION BASIN
		35.27	ROAD STR. FILL DETENTION BASIN
		34.53	ROAD STR. FILL DETENTION BASIN
		35.53	ROAD STR. FILL DETENTION BASIN
		33.54	ROAD STR. FILL DETENTION BASIN
		33.84	ROAD STR. FILL DETENTION BASIN
		34.11	ROAD STR. FILL DETENTION BASIN
		35.72	ROAD STR. FILL DETENTION BASIN
		34.06	ROAD STR. FILL DETENTION BASIN
		34.39	ROAD STR. FILL DETENTION BASIN
		35.22	ROAD STR. FILL DETENTION BASIN
		33.48	ROAD STR. FILL DETENTION BASIN
		31.73	ROAD STR. FILL DETENTION BASIN
1" LYNPAC DG	12/16/96	34.62 TONS	ROAD STR. FILL DETENTION BASIN
		34.88	ROAD STR. FILL DETENTION BASIN
		33.17	ROAD STR. FILL DETENTION BASIN
		31.85	ROAD STR. FILL DETENTION BASIN
		33.73	ROAD STR. FILL DETENTION BASIN
		32.75	ROAD STR. FILL DETENTION BASIN
1" LYNPAC DG	12/17/96	36.01	ROAD STR. FILL DETENTION BASIN
		35.85	ROAD STR. FILL DETENTION BASIN
		35.01	ROAD STR. FILL DETENTION BASIN
		24.57	ROAD STR. FILL DETENTION BASIN
		26.2	ROAD STR. FILL DETENTION BASIN
		34.07	ROAD STR. FILL DETENTION BASIN
		34.44	ROAD STR. FILL DETENTION BASIN
		34.28	ROAD STR. FILL DETENTION BASIN
		36.4	ROAD STR. FILL DETENTION BASIN

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1" LYNPAC DG	12/17/96	25.33	TONS	ROAD STR. FILL DETENTION BASIN
		24.65		ROAD STR. FILL DETENTION BASIN
		34.6		ROAD STR. FILL DETENTION BASIN
		35		ROAD STR. FILL DETENTION BASIN
		35.39		ROAD STR. FILL DETENTION BASIN
		24.52		ROAD STR. FILL DETENTION BASIN
		25.37		ROAD STR. FILL DETENTION BASIN
		36.05		ROAD STR. FILL DETENTION BASIN
		35.06		ROAD STR. FILL DETENTION BASIN
		33.71		ROAD STR. FILL DETENTION BASIN
		34.99		ROAD STR. FILL DETENTION BASIN
		25.53		ROAD STR. FILL DETENTION BASIN
		35.64		ROAD STR. FILL DETENTION BASIN
		24.94		ROAD STR. FILL DETENTION BASIN
		33.75		ROAD STR. FILL DETENTION BASIN
		35.46		ROAD STR. FILL DETENTION BASIN
		36.09		ROAD STR. FILL DETENTION BASIN
		24.46		ROAD STR. FILL DETENTION BASIN
		33.35		ROAD STR. FILL DETENTION BASIN
		33.75		ROAD STR. FILL DETENTION BASIN
		28.4		ROAD STR. FILL DETENTION BASIN
		35.42		ROAD STR. FILL DETENTION BASIN
		34.26		ROAD STR. FILL DETENTION BASIN
		25.01		ROAD STR. FILL DETENTION BASIN
		35.41		ROAD STR. FILL DETENTION BASIN
		33.93		ROAD STR. FILL DETENTION BASIN
		26.61		ROAD STR. FILL DETENTION BASIN
		35.6		ROAD STR. FILL DETENTION BASIN
		24.78		ROAD STR. FILL DETENTION BASIN
		32.5		ROAD STR. FILL DETENTION BASIN
40-3/4-HYC (Concrete)	12/17/96	38	CY	SED. STR. SLAB
TYPE C 12" MINUS	12/18/96	28.61		ATLANTIC AVENUE DRAINWAY
		31.57	TONS	ATLANTIC AVENUE DRAINWAY
TYPE C 12" MINUS	12/18/96	32.96	TONS	ATLANTIC AVENUE DRAINWAY
		32.23		ATLANTIC AVENUE DRAINWAY
40-3/4-HYC (Concrete)	12/18/96	27	CY	AAD HEADWALL
40-3/4-HYC (Concrete)	12/19/96	19	CY	MH/CB INVERT
RIPRAP	12/19/96	16.42	TONS	ATLANTIC AVENUE DRAINWAY
		18.85		ATLANTIC AVENUE DRAINWAY
		16.45		ATLANTIC AVENUE DRAINWAY
		14.3		ATLANTIC AVENUE DRAINWAY
		15.2		ATLANTIC AVENUE DRAINWAY
		16.95		ATLANTIC AVENUE DRAINWAY
		15.8		ATLANTIC AVENUE DRAINWAY
		15.35		ATLANTIC AVENUE DRAINWAY
1" LYNPAC DG	12/19/96	35.15		ROAD STR. FILL/DETENTION BASIN
		34.56		ROAD STR. FILL/DETENTION BASIN

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1" LYNPAC DG	12/19/96	34.83	TONS	ROAD STR. FILL/DETENTION BASIN
		34.37		ROAD STR. FILL/DETENTION BASIN
		36.64		ROAD STR. FILL/DETENTION BASIN
		34.45		ROAD STR. FILL/DETENTION BASIN
		36.42		ROAD STR. FILL/DETENTION BASIN
		35.28		ROAD STR. FILL/DETENTION BASIN
		37.21		ROAD STR. FILL/DETENTION BASIN
		35.29		ROAD STR. FILL/DETENTION BASIN
		32.35		ROAD STR. FILL/DETENTION BASIN
		31.97		ROAD STR. FILL/DETENTION BASIN
		34.57		ROAD STR. FILL/DETENTION BASIN
1" LYNPAC DG	12/20/96	35.72		ROAD STR. FILL/DETENTION BASIN
		35.25		ROAD STR. FILL/DETENTION BASIN
		36.34		ROAD STR. FILL/DETENTION BASIN
1" LYNPAC DG	12./23/96	25.29		ROAD STR. FILL/DETENTION BASIN
		24.93		ROAD STR. FILL/DETENTION BASIN
		25.71		ROAD STR. FILL/DETENTION BASIN
		24.88		ROAD STR. FILL/DETENTION BASIN
		23.93		ROAD STR. FILL/DETENTION BASIN
		26.02		ROAD STR. FILL/DETENTION BASIN
		25.26		ROAD STR. FILL/DETENTION BASIN
		24.71		ROAD STR. FILL/DETENTION BASIN
		24.54		ROAD STR. FILL/DETENTION BASIN
		25.36		ROAD STR. FILL/DETENTION BASIN
		25.15		ROAD STR. FILL/DETENTION BASIN
		25.31		ROAD STR. FILL/DETENTION BASIN
		25.19		ROAD STR. FILL/DETENTION BASIN
		25.61		ROAD STR. FILL/DETENTION BASIN
		25.83		ROAD STR. FILL/DETENTION BASIN
		25.37		ROAD STR. FILL/DETENTION BASIN
		24.89		ROAD STR. FILL/DETENTION BASIN
		25.63		ROAD STR. FILL/DETENTION BASIN
1" LYNPAC DG	12/24/96	35.05		ROAD STR. FILL/DETENTION BASIN
		34..07		ROAD STR. FILL/DETENTION BASIN
		25.1		ROAD STR. FILL/DETENTION BASIN
		33.36		ROAD STR. FILL/DETENTION BASIN
1" LYNPAC DG	12/24/96	25.78	TONS	ROAD STR. FILL/DETENTION BASIN
		35.47		ROAD STR. FILL/DETENTION BASIN
		33.93		ROAD STR. FILL/DETENTION BASIN
		24.1		ROAD STR. FILL/DETENTION BASIN
		25.21		ROAD STR. FILL/DETENTION BASIN
		34.09		ROAD STR. FILL/DETENTION BASIN
		24.8		ROAD STR. FILL/DETENTION BASIN
		34.94		ROAD STR. FILL/DETENTION BASIN
		25.08		ROAD STR. FILL/DETENTION BASIN
		24.79		ROAD STR. FILL/DETENTION BASIN
		33.64		ROAD STR. FILL/DETENTION BASIN

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1" LYNPAC DG	12/24/96	26.44	TONS	ROAD STR. FILL/DETENTION BASIN
		35.16		ROAD STR. FILL/DETENTION BASIN
1" LYNPAC DG	12/26/96	33.35		ROAD STR. FILL/DETENTION BASIN
		34.21		ROAD STR. FILL/DETENTION BASIN
		24.44		ROAD STR. FILL/DETENTION BASIN
		25.55		ROAD STR. FILL/DETENTION BASIN
		35.24		ROAD STR. FILL/DETENTION BASIN
		25.3		ROAD STR. FILL/DETENTION BASIN
		25.15		ROAD STR. FILL/DETENTION BASIN
		34.68		ROAD STR. FILL/DETENTION BASIN
		24.18		ROAD STR. FILL/DETENTION BASIN
		25.74		ROAD STR. FILL/DETENTION BASIN
		33.62		ROAD STR. FILL/DETENTION BASIN
		34.93		ROAD STR. FILL/DETENTION BASIN
		24.51		ROAD STR. FILL/DETENTION BASIN
		25.25		ROAD STR. FILL/DETENTION BASIN
		33.67		ROAD STR. FILL/DETENTION BASIN
		36.19		ROAD STR. FILL/DETENTION BASIN
		25.67		ROAD STR. FILL/DETENTION BASIN
		34.85		ROAD STR. FILL/DETENTION BASIN
		25.62		ROAD STR. FILL/DETENTION BASIN
		35.74		ROAD STR. FILL/DETENTION BASIN
		33.94		ROAD STR. FILL/DETENTION BASIN
		25.56		ROAD STR. FILL/DETENTION BASIN
1" LYNPAC DG	12/31/96	35.84		ROAD STR. FILL/DETENTION BASIN
		33.14		ROAD STR. FILL/DETENTION BASIN
		35.6		ROAD STR. FILL/DETENTION BASIN
		34.19		ROAD STR. FILL/DETENTION BASIN
		35.58		ROAD STR. FILL/DETENTION BASIN
		35.01		ROAD STR. FILL/DETENTION BASIN
		34.53		ROAD STR. FILL/DETENTION BASIN
1" LYNPAC DG	1/2/97	24.52		PRESIDENTIAL WAY EXT.
		24.69		PRESIDENTIAL WAY EXT.
		26.58		PRESIDENTIAL WAY EXT.
		25.22		PRESIDENTIAL WAY EXT.
		25.33		PRESIDENTIAL WAY EXT.
1" LYNPAC DG	1/2/97	25.33	TONS	PRESIDENTIAL WAY EXT.
		25.14		PRESIDENTIAL WAY EXT.
		25.06		PRESIDENTIAL WAY EXT.
		25.08		PRESIDENTIAL WAY EXT.
		25.48		PRESIDENTIAL WAY EXT.
		24.97		PRESIDENTIAL WAY EXT.
		25.02		PRESIDENTIAL WAY EXT.
1" LYNPAC DG	1/3/97	34.59		PRESIDENTIAL WAY EXT.
		34.78		PRESIDENTIAL WAY EXT.
		34.03		PRESIDENTIAL WAY EXT.
		33.64		PRESIDENTIAL WAY EXT.

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1" LYNPAC DG	1/3/97	34.76	TONS	PRESIDENTIAL WAY EXT.
		34.62		PRESIDENTIAL WAY EXT.
		34.85		PRESIDENTIAL WAY EXT.
		34.92		PRESIDENTIAL WAY EXT.
		34.52		PRESIDENTIAL WAY EXT.
		35.33		PRESIDENTIAL WAY EXT.
		33.89		PRESIDENTIAL WAY EXT.
		34.35		PRESIDENTIAL WAY EXT.
		32.56		PRESIDENTIAL WAY EXT.
6" STONE	1/3/97	34.71		SOUTH AAD
		34.86		SOUTH AAD
		32.48		SOUTH AAD
		31.54		SOUTH AAD
		33.9		SOUTH AAD
		33.86		SOUTH AAD
		34.12		SOUTH AAD
		32.45		SOUTH AAD
		36.04		SOUTH AAD
		31.97		SOUTH AAD
		33.81		SOUTH AAD
		34.4		SOUTH AAD
		31.7		SOUTH AAD
		31.72		SOUTH AAD
		34.52		SOUTH AAD
		32		SOUTH AAD
		34.05		SOUTH AAD
		32.39		SOUTH AAD
		34.17		SOUTH AAD
		31.36		SOUTH AAD
		31.77		SOUTH AAD
		33.69		SOUTH AAD
		32.77		SOUTH AAD
		32.97		SOUTH AAD
		34.09		SOUTH AAD
		32.97		SOUTH AAD
		34.68		SOUTH AAD
6" STONE	1/3/97	25.81	TONS	SOUTH AAD
		32.53		SOUTH AAD
		31.61		SOUTH AAD
1" LYNPAC	1/6/97	24.73		ROAD STR. FILL/DETENTION BASIN
		25.45		ROAD STR. FILL/DETENTION BASIN
		24.42		ROAD STR. FILL/DETENTION BASIN
		25.71		ROAD STR. FILL/DETENTION BASIN
		25.24		ROAD STR. FILL/DETENTION BASIN
		25.13		ROAD STR. FILL/DETENTION BASIN
		25.07		ROAD STR. FILL/DETENTION BASIN
		24.74		ROAD STR. FILL/DETENTION BASIN

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1" LYNPAC	1/6/97	25.29	TONS	ROAD STR. FILL/DETENTION BASIN
		25.26		ROAD STR. FILL/DETENTION BASIN
		25.17		ROAD STR. FILL/DETENTION BASIN
		25.32		ROAD STR. FILL/DETENTION BASIN
		25.35		ROAD STR. FILL/DETENTION BASIN
		25.03		ROAD STR. FILL/DETENTION BASIN
		25.41		ROAD STR. FILL/DETENTION BASIN
		25.42		ROAD STR. FILL/DETENTION BASIN
		25.02		ROAD STR. FILL/DETENTION BASIN
		25.63		ROAD STR. FILL/DETENTION BASIN
3/4" STONE	1/8/97	33.55		ALT COVER SURFACE
		32.06		ALT COVER SURFACE
		26.71		ALT COVER SURFACE
		34.64		ALT COVER SURFACE
		32.8		ALT COVER SURFACE
		31.42		ALT COVER SURFACE
		24.92		ALT COVER SURFACE
		35.69		ALT COVER SURFACE
3/4" STONE	1/9/97	24.64		ALT COVER SURFACE
		33.04		ALT COVER SURFACE
		31.23		ALT COVER SURFACE
		31.35		ALT COVER SURFACE
		32.77		ALT COVER SURFACE
		34.02		ALT COVER SURFACE
		32.16		ALT COVER SURFACE
		35		ALT COVER SURFACE
		32.23		ALT COVER SURFACE
		34.81		ALT COVER SURFACE
		25.29		ALT COVER SURFACE
		34.36		ALT COVER SURFACE
		34.32		ALT COVER SURFACE
		25.36		ALT COVER SURFACE
		32.99		ALT COVER SURFACE
		32.16		ALT COVER SURFACE
		35.21		ALT COVER SURFACE
		33.49		ALT COVER SURFACE
3/4" STONE	1/9/97	24.79	TONS	ALT COVER SURFACE
		25.12		ALT COVER SURFACE
		33.13		ALT COVER SURFACE
		32.19		ALT COVER SURFACE
		33.08		ALT COVER SURFACE
		31.01		ALT COVER SURFACE
		31.7		ALT COVER SURFACE
		33.33		ALT COVER SURFACE
		35.17		ALT COVER SURFACE
		32.55		ALT COVER SURFACE
		33.91		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/9/97	32.08	TONS	ALT COVER SURFACE
		34.37		ALT COVER SURFACE
		31.15		ALT COVER SURFACE
		25.74		ALT COVER SURFACE
		33.78		ALT COVER SURFACE
		34.74		ALT COVER SURFACE
		25.3		ALT COVER SURFACE
		32.55		ALT COVER SURFACE
		31.98		ALT COVER SURFACE
		33.62		ALT COVER SURFACE
		35		ALT COVER SURFACE
		24.53		ALT COVER SURFACE
		32.96		ALT COVER SURFACE
		32.58		ALT COVER SURFACE
		24.96		ALT COVER SURFACE
		33.09		ALT COVER SURFACE
		31.01		ALT COVER SURFACE
		31.69		ALT COVER SURFACE
		32.6		ALT COVER SURFACE
		35.49		ALT COVER SURFACE
		31.77		ALT COVER SURFACE
		34.32		ALT COVER SURFACE
		34.32		ALT COVER SURFACE
		34.68		ALT COVER SURFACE
		32.47		ALT COVER SURFACE
		32.12		ALT COVER SURFACE
		33.17		ALT COVER SURFACE
		34.33		ALT COVER SURFACE
		34.96		ALT COVER SURFACE
		34.2		ALT COVER SURFACE
		32.12		ALT COVER SURFACE
		24.63		ALT COVER SURFACE
		33.19		ALT COVER SURFACE
		34.05		ALT COVER SURFACE
		25.59		ALT COVER SURFACE
		33.09		ALT COVER SURFACE
3/4" STONE	1/9/97	31.65	TONS	ALT COVER SURFACE
		35.03		ALT COVER SURFACE
		31.79		ALT COVER SURFACE
		35.19		ALT COVER SURFACE
		34.22		ALT COVER SURFACE
		32.43		ALT COVER SURFACE
		32.56		ALT COVER SURFACE
		31.39		ALT COVER SURFACE
		31.75		ALT COVER SURFACE
		25.27		ALT COVER SURFACE
		32.47		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/9/97	34.63	TONS	ALT COVER SURFACE
		33.4		ALT COVER SURFACE
		24.91		ALT COVER SURFACE
		34.13		ALT COVER SURFACE
		25.24		ALT COVER SURFACE
		34.82		ALT COVER SURFACE
		35.25		ALT COVER SURFACE
		31.56		ALT COVER SURFACE
		31.7		ALT COVER SURFACE
		24.83		ALT COVER SURFACE
		33.09		ALT COVER SURFACE
		31.73		ALT COVER SURFACE
		34.34		ALT COVER SURFACE
		33.97		ALT COVER SURFACE
		33.1		ALT COVER SURFACE
		34.37		ALT COVER SURFACE
		33.36		ALT COVER SURFACE
		33.1		ALT COVER SURFACE
		35.18		ALT COVER SURFACE
		24.7		ALT COVER SURFACE
		25.39		ALT COVER SURFACE
		32.98		ALT COVER SURFACE
		35.74		ALT COVER SURFACE
		34.92		ALT COVER SURFACE
		35.08		ALT COVER SURFACE
		34.21		ALT COVER SURFACE
		35.3		ALT COVER SURFACE
		32.21		ALT COVER SURFACE
		24.81		ALT COVER SURFACE
		32.52		ALT COVER SURFACE
		34.1		ALT COVER SURFACE
		31.3		ALT COVER SURFACE
		31.68		ALT COVER SURFACE
		33.63		ALT COVER SURFACE
		24.85		ALT COVER SURFACE
3/4" STONE	1/9/97	25.56	TONS	ALT COVER SURFACE
		25.37		ALT COVER SURFACE
		33.01		ALT COVER SURFACE
		32.38		ALT COVER SURFACE
		31.5		ALT COVER SURFACE
		35.14		ALT COVER SURFACE
		32.62		ALT COVER SURFACE
		34.15		ALT COVER SURFACE
		34.13		ALT COVER SURFACE
		34.44		ALT COVER SURFACE
		33.5		ALT COVER SURFACE
		34.39		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/10/97	33.28	TONS	ALT COVER SURFACE
		34.12		ALT COVER SURFACE
		24.24		ALT COVER SURFACE
		33.96		ALT COVER SURFACE
		33.33		ALT COVER SURFACE
		33.37		ALT COVER SURFACE
		34.88		ALT COVER SURFACE
		33.8		ALT COVER SURFACE
		33.56		ALT COVER SURFACE
		25.62		ALT COVER SURFACE
		25.27		ALT COVER SURFACE
		33.01		ALT COVER SURFACE
		25.4		ALT COVER SURFACE
		34.64		ALT COVER SURFACE
		33.99		ALT COVER SURFACE
		34.13		ALT COVER SURFACE
		34.88		ALT COVER SURFACE
		35.2		ALT COVER SURFACE
		25.21		ALT COVER SURFACE
		25.7		ALT COVER SURFACE
		32.98		ALT COVER SURFACE
		24.13		ALT COVER SURFACE
		34.23		ALT COVER SURFACE
		34.64		ALT COVER SURFACE
		34.75		ALT COVER SURFACE
		32.56		ALT COVER SURFACE
		33.27		ALT COVER SURFACE
		25.08		ALT COVER SURFACE
		34.03		ALT COVER SURFACE
		33.76		ALT COVER SURFACE
		24.49		ALT COVER SURFACE
		35.04		ALT COVER SURFACE
		24.92		ALT COVER SURFACE
		35.31		ALT COVER SURFACE
		34.14		ALT COVER SURFACE
3/4" STONE	1/10/97	34.49	TONS	ALT COVER SURFACE
		35.49		ALT COVER SURFACE
		31.57		ALT COVER SURFACE
		34.38		ALT COVER SURFACE
		34.13		ALT COVER SURFACE
		31.88		ALT COVER SURFACE
		25.62		ALT COVER SURFACE
		24.53		ALT COVER SURFACE
		25.37		ALT COVER SURFACE
		34.78		ALT COVER SURFACE
		33.43		ALT COVER SURFACE
		34.76		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/10/97	34.78	TONS	ALT COVER SURFACE
		34.82		ALT COVER SURFACE
		32.09		ALT COVER SURFACE
		24.91		ALT COVER SURFACE
		31.34		ALT COVER SURFACE
		35.11		ALT COVER SURFACE
		24.91		ALT COVER SURFACE
		36.24		ALT COVER SURFACE
		35		ALT COVER SURFACE
		25.35		ALT COVER SURFACE
		34.27		ALT COVER SURFACE
		34.15		ALT COVER SURFACE
		34.08		ALT COVER SURFACE
		32.39		ALT COVER SURFACE
		25.16		ALT COVER SURFACE
3/4" STONE	1/13/97	33.88		ALT COVER SURFACE
		33.34		ALT COVER SURFACE
		31.75		ALT COVER SURFACE
		24.23		ALT COVER SURFACE
		25.12		ALT COVER SURFACE
		24.99		ALT COVER SURFACE
		33.14		ALT COVER SURFACE
		33.37		ALT COVER SURFACE
		31.64		ALT COVER SURFACE
		24.8		ALT COVER SURFACE
		24.88		ALT COVER SURFACE
		25.59		ALT COVER SURFACE
		35.32		ALT COVER SURFACE
		35.28		ALT COVER SURFACE
		32.52		ALT COVER SURFACE
		24.59		ALT COVER SURFACE
		24.85		ALT COVER SURFACE
		25.1		ALT COVER SURFACE
		34.05		ALT COVER SURFACE
		34.54		ALT COVER SURFACE
3/4" STONE	1/13/97	32.66	TONS	ALT COVER SURFACE
		25.02		ALT COVER SURFACE
		24.61		ALT COVER SURFACE
		34.58		ALT COVER SURFACE
		34.8		ALT COVER SURFACE
		32.07		ALT COVER SURFACE
		24.13		ALT COVER SURFACE
		25.12		ALT COVER SURFACE
		24.62		ALT COVER SURFACE
		34.19		ALT COVER SURFACE
		34.88		ALT COVER SURFACE
		33.49		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/13/97	25.09	TONS	ALT COVER SURFACE
		35.88		ALT COVER SURFACE
		25.08		ALT COVER SURFACE
		25.06		ALT COVER SURFACE
		31.96		ALT COVER SURFACE
1 1/2" STONE	1/13/97	34.63	TONS	MBTA ROW
		32.67		MBTA ROW
		35		MBTA ROW
		32.78		MBTA ROW
		33.46		MBTA ROW
		35.55		MBTA ROW
		32.59		MBTA ROW
		35.69		MBTA ROW
		31.83		MBTA ROW
		34.61		MBTA ROW
		34.32		MBTA ROW
		33.44		MBTA ROW
3/4" STONE	1/14/97	34.29		ALT COVER SURFACE
		34.29		ALT COVER SURFACE
		24.92		ALT COVER SURFACE
		25.03		ALT COVER SURFACE
		34.12		ALT COVER SURFACE
		33.24		ALT COVER SURFACE
		32.43		ALT COVER SURFACE
		34.19		ALT COVER SURFACE
		34.73		ALT COVER SURFACE
		34.37		ALT COVER SURFACE
		34.89		ALT COVER SURFACE
		25.41		ALT COVER SURFACE
		34.68		ALT COVER SURFACE
		33.96		ALT COVER SURFACE
		26.27		ALT COVER SURFACE
		34.63		ALT COVER SURFACE
		34.8		ALT COVER SURFACE
1" LYNPAC DG	1/14/97	33.88		ROAD STR. FILL DETENTION BASIN
		32.87		ROAD STR. FILL DETENTION BASIN
		33.71		ROAD STR. FILL DETENTION BASIN
		24.22		ROAD STR. FILL DETENTION BASIN
		33.2		ROAD STR. FILL DETENTION BASIN
		33.96		ROAD STR. FILL DETENTION BASIN
		32.21		ROAD STR. FILL DETENTION BASIN
		33.58		ROAD STR. FILL DETENTION BASIN
		32.38		ROAD STR. FILL DETENTION BASIN
		25.54		ROAD STR. FILL DETENTION BASIN
		35.23		ROAD STR. FILL DETENTION BASIN
		32.03		ROAD STR. FILL DETENTION BASIN
		33.69		ROAD STR. FILL DETENTION BASIN

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1" LYNPAC DG	1/14/97	33.25	TONS	ROAD STR. FILL DETENTION BASIN
		26.42		ROAD STR. FILL DETENTION BASIN
		33.56		ROAD STR. FILL DETENTION BASIN
		31.91		ROAD STR. FILL DETENTION BASIN
		34.57		ROAD STR. FILL DETENTION BASIN
		32.61		ROAD STR. FILL DETENTION BASIN
		34.33		ROAD STR. FILL DETENTION BASIN
		32.64		ROAD STR. FILL DETENTION BASIN
		34.29		ROAD STR. FILL DETENTION BASIN
		32.92		ROAD STR. FILL DETENTION BASIN
		63.44		ROAD STR. FILL DETENTION BASIN
		33.67		ROAD STR. FILL DETENTION BASIN
		31.02		ROAD STR. FILL DETENTION BASIN
		32.7		ROAD STR. FILL DETENTION BASIN
		25.29		ROAD STR. FILL DETENTION BASIN
		24.93		ROAD STR. FILL DETENTION BASIN
		25.13		ROAD STR. FILL DETENTION BASIN
3" STONE	1/15/97	35.6		ATLANTIC AVENUE DRAINWAY
		34.01		ATLANTIC AVENUE DRAINWAY
		34.85		ATLANTIC AVENUE DRAINWAY
		36		ATLANTIC AVENUE DRAINWAY
3/4" STONE	1/15/97	36.42		ALT COVER SURFACE
		35.31		ALT COVER SURFACE
		33.08		ALT COVER SURFACE
		34.34		ALT COVER SURFACE
		33.58		ALT COVER SURFACE
		32.48		ALT COVER SURFACE
		34.34		ALT COVER SURFACE
		33.17		ALT COVER SURFACE
		34.58		ALT COVER SURFACE
		34.6		ALT COVER SURFACE
		31.9		ALT COVER SURFACE
		35.96		ALT COVER SURFACE
		33.99		ALT COVER SURFACE
		34.58		ALT COVER SURFACE
		32.59		ALT COVER SURFACE
		35.55		ALT COVER SURFACE
		32.07		ALT COVER SURFACE
1 1/2" STONE	1/15/97	33.47		MBTA ROW
		34.14		MBTA ROW
		34.03		MBTA ROW
		31.25		MBTA ROW
		31.84		MBTA ROW
		31.98		MBTA ROW
		36.18		MBTA ROW
		35.19		MBTA ROW
		34.45		MBTA ROW

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1 1/2" STONE	1/15/97	32	TONS	MBTA ROW
		32.43		MBTA ROW
		31.22		MBTA ROW
		34.12		MBTA ROW
		32.02		MBTA ROW
1 1/2" STONE	1/15/97	32.51	TONS	MBTA ROW
		33.33		MBTA ROW
		33.22		MBTA ROW
		33.8		MBTA ROW
		32.97		MBTA ROW
		33.45		MBTA ROW
		35.67		MBTA ROW
		32.42		MBTA ROW
		33.75		MBTA ROW
		32.9		MBTA ROW
		32.75		MBTA ROW
		34.85		MBTA ROW
		34.29		MBTA ROW
		33.71		MBTA ROW
		32.34		MBTA ROW
		31.64		MBTA ROW
		32.93		MBTA ROW
		34.49		MBTA ROW
1" LYNPAC DG	1/15/97	25.48		ROAD STR. FILL DETENTION BASIN
		25.23		ROAD STR. FILL DETENTION BASIN
		25.48		ROAD STR. FILL DETENTION BASIN
		25.47		ROAD STR. FILL DETENTION BASIN
		25.6		ROAD STR. FILL DETENTION BASIN
		24.99		ROAD STR. FILL DETENTION BASIN
		25.39		ROAD STR. FILL DETENTION BASIN
		25.23		ROAD STR. FILL DETENTION BASIN
		24.85		ROAD STR. FILL DETENTION BASIN
		25.48		ROAD STR. FILL DETENTION BASIN
		25.69		ROAD STR. FILL DETENTION BASIN
		25.39		ROAD STR. FILL DETENTION BASIN
		25.63		ROAD STR. FILL DETENTION BASIN
		25.15		ROAD STR. FILL DETENTION BASIN
		24.89		ROAD STR. FILL DETENTION BASIN
		25.38		ROAD STR. FILL DETENTION BASIN
		24.98		ROAD STR. FILL DETENTION BASIN
		25.34		ROAD STR. FILL DETENTION BASIN
1" LYNPAC DG	1/15/97	31.81	TONS	ROAD STR. FILL DETENTION BASIN
1" LYNPAC DG	1/16/97	31.58		ROAD STR. FILL DETENTION BASIN
		32.13		ROAD STR. FILL DETENTION BASIN
		31.74		ROAD STR. FILL DETENTION BASIN
		25.11		ROAD STR. FILL DETENTION BASIN
		32.39		ROAD STR. FILL DETENTION BASIN

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
1" LYNPAC DG	1/16/97	32.55	TONS	ROAD STR. FILL DETENTION BASIN
		31.96		ROAD STR. FILL DETENTION BASIN
		25.5		ROAD STR. FILL DETENTION BASIN
		25.59		ROAD STR. FILL DETENTION BASIN
		31.99		ROAD STR. FILL DETENTION BASIN
		32.32		ROAD STR. FILL DETENTION BASIN
1 " LYNPAC DG	1/16/97	34.29	TONS	ROAD STR. FILL DETENTION BASIN
		32.43		ROAD STR. FILL DETENTION BASIN
		31.87		ROAD STR. FILL DETENTION BASIN
		25.57		ROAD STR. FILL DETENTION BASIN
		26.69		ROAD STR. FILL DETENTION BASIN
		25.12		ROAD STR. FILL DETENTION BASIN
		32.21		ROAD STR. FILL DETENTION BASIN
		33.08		ROAD STR. FILL DETENTION BASIN
		34.68		ROAD STR. FILL DETENTION BASIN
		25.82		ROAD STR. FILL DETENTION BASIN
		31.58		ROAD STR. FILL DETENTION BASIN
		32.29		ROAD STR. FILL DETENTION BASIN
		27.56		ROAD STR. FILL DETENTION BASIN
		32.01		ROAD STR. FILL DETENTION BASIN
		33.05		ROAD STR. FILL DETENTION BASIN
		34.84		ROAD STR. FILL DETENTION BASIN
		34.23		ROAD STR. FILL DETENTION BASIN
		25.47		ROAD STR. FILL DETENTION BASIN
		25.11		ROAD STR. FILL DETENTION BASIN
		31.16		ROAD STR. FILL DETENTION BASIN
		25.75		ROAD STR. FILL DETENTION BASIN
		32.95		ROAD STR. FILL DETENTION BASIN
		31.66		ROAD STR. FILL DETENTION BASIN
		31.62		ROAD STR. FILL DETENTION BASIN
		34.79		ROAD STR. FILL DETENTION BASIN
		31.54		ROAD STR. FILL DETENTION BASIN
		33.89		ROAD STR. FILL DETENTION BASIN
		25.12		ROAD STR. FILL DETENTION BASIN
		25.44		ROAD STR. FILL DETENTION BASIN
		31.72		ROAD STR. FILL DETENTION BASIN
3/4" STONE	1/16/97	34.54		ALT COVER SURFACE
		34.26		ALT COVER SURFACE
		35.29		ALT COVER SURFACE
		34.66		ALT COVER SURFACE
		33.81		ALT COVER SURFACE
		34.11		ALT COVER SURFACE
		35.03		ALT COVER SURFACE
		34.54		ALT COVER SURFACE
		33.76		ALT COVER SURFACE
		33.96		ALT COVER SURFACE
		34.98		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/16/97	33.67	TONS	ALT COVER SURFACE
		35.46		ALT COVER SURFACE
		33.47		ALT COVER SURFACE
		32.89		ALT COVER SURFACE
		34.06		ALT COVER SURFACE
		33.17		ALT COVER SURFACE
3/4" STONE	1/16/97	34.52	TONS	ALT COVER SURFACE
		30.08		ALT COVER SURFACE
1 1/2" STONE	1/16/97	34.26		MBTA ROW
		33.26		MBTA ROW
		33.38		MBTA ROW
		34.3		MBTA ROW
		33.58		MBTA ROW
		31.31		MBTA ROW
		34.42		MBTA ROW
		34.2		MBTA ROW
		33.68		MBTA ROW
		32.89		MBTA ROW
		32.56		MBTA ROW
1 1/2" A.R.E.A.	1/16/97	32.6		MBTA ROW
		34.5		MBTA ROW
		33.85		MBTA ROW
		34.6		MBTA ROW
1" LYNPAC DG	1/17/97	24.51		ROAD STR. FILL DETENTION BASIN
		24.94		ROAD STR. FILL DETENTION BASIN
		24.85		ROAD STR. FILL DETENTION BASIN
		24.45		ROAD STR. FILL DETENTION BASIN
		24.98		ROAD STR. FILL DETENTION BASIN
		25.23		ROAD STR. FILL DETENTION BASIN
		34.89		ROAD STR. FILL DETENTION BASIN
		24.47		ROAD STR. FILL DETENTION BASIN
		24.28		ROAD STR. FILL DETENTION BASIN
		34.91		ROAD STR. FILL DETENTION BASIN
		25.44		ROAD STR. FILL DETENTION BASIN
		24.21		ROAD STR. FILL DETENTION BASIN
		34.93		ROAD STR. FILL DETENTION BASIN
		25.27		ROAD STR. FILL DETENTION BASIN
		24.28		ROAD STR. FILL DETENTION BASIN
		34.44		ROAD STR. FILL DETENTION BASIN
		32.49		ROAD STR. FILL DETENTION BASIN
		31.5		ROAD STR. FILL DETENTION BASIN
		34.36		ROAD STR. FILL DETENTION BASIN
		24.83		ROAD STR. FILL DETENTION BASIN
		25.12		ROAD STR. FILL DETENTION BASIN
		34.63		ROAD STR. FILL DETENTION BASIN
		32.21		ROAD STR. FILL DETENTION BASIN
		31.49		ROAD STR. FILL DETENTION BASIN

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/17/97	33.89	TONS	ALT COVER SURFACE
		31.31		ALT COVER SURFACE
		34.12		ALT COVER SURFACE
		31.76		ALT COVER SURFACE
		33.74		ALT COVER SURFACE
3/4" STONE	1/17/97	32.26	TONS	ALT COVER SURFACE
		34.26		ALT COVER SURFACE
		31.48		ALT COVER SURFACE
		33.7		ALT COVER SURFACE
		31.86		ALT COVER SURFACE
		34		ALT COVER SURFACE
		31.51		ALT COVER SURFACE
1 1/2" STONE	1/21/97	33.24		MBTA (in place of 3/4" stone)
		32.23		MBTA (in place of 3/4" stone)
		31.19		MBTA (in place of 3/4" stone)
		32.17		MBTA (in place of 3/4" stone)
		33.9		MBTA (in place of 3/4" stone)
		31.37		MBTA (in place of 3/4" stone)
		31.89		MBTA (in place of 3/4" stone)
		32.33		MBTA (in place of 3/4" stone)
		34.11		MBTA (in place of 3/4" stone)
		34.29		MBTA (in place of 3/4" stone)
		33.62		MBTA (in place of 3/4" stone)
1" LYNPAC DG	1/21/97	35.04		DETENTION BASIN BERM ROAD
		33.91		DETENTION BASIN BERM ROAD
		34.34		DETENTION BASIN BERM ROAD
		32.25		DETENTION BASIN BERM ROAD
		31.89		DETENTION BASIN BERM ROAD
		33.04		DETENTION BASIN BERM ROAD
		35.35		DETENTION BASIN BERM ROAD
		33.98		DETENTION BASIN BERM ROAD
		33.11		DETENTION BASIN BERM ROAD
		34.78		DETENTION BASIN BERM ROAD
		32.8		DETENTION BASIN BERM ROAD
		34.73		DETENTION BASIN BERM ROAD
		33.2		DETENTION BASIN BERM ROAD
3/4" STONE	1/21/97	37.37		ALT COVER SURFACE
		25.62		ALT COVER SURFACE
		25.08		ALT COVER SURFACE
		25.06		ALT COVER SURFACE
		24.91		ALT COVER SURFACE
		24.95		ALT COVER SURFACE
		24.66		ALT COVER SURFACE
		24.38		ALT COVER SURFACE
		24.24		ALT COVER SURFACE
		24.77		ALT COVER SURFACE
		24.97		ALT COVER SURFACE

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/21/97	24.19	TONS	ALT COVER SURFACE
		24.07		ALT COVER SURFACE
6" STONE	1/21/97	31.27		ATLANTIC AVENUE DRAINWAY
		31.47		ATLANTIC AVENUE DRAINWAY
		32.48		ATLANTIC AVENUE DRAINWAY
3 " STONE	1/22/97	31.52	TONS	ATLANTIC AVENUE DRAINWAY
		24.57		ATLANTIC AVENUE DRAINWAY
		24.98		ATLANTIC AVENUE DRAINWAY
		32.23		ATLANTIC AVENUE DRAINWAY
		25.12		ATLANTIC AVENUE DRAINWAY
		25.11		ATLANTIC AVENUE DRAINWAY
		25.05		ATLANTIC AVENUE DRAINWAY
		25.61		ATLANTIC AVENUE DRAINWAY
		32.47		ATLANTIC AVENUE DRAINWAY
		24.83		ATLANTIC AVENUE DRAINWAY
		24.26		ATLANTIC AVENUE DRAINWAY
		31.97		ATLANTIC AVENUE DRAINWAY
		24.4		ATLANTIC AVENUE DRAINWAY
		24.96		ATLANTIC AVENUE DRAINWAY
6" STONE	1/22/97	31.98		ATLANTIC AVENUE DRAINWAY
		31.56		ATLANTIC AVENUE DRAINWAY
		31.92		ATLANTIC AVENUE DRAINWAY
40-3/4-HYC (Concrete)	1/23/97	4	CY	SED. STRUCTURE, MANHOLE INVERTS
1" LYNPAC DG	1/23/97	32.08	TONS	DETENTION BASIN BERM ROAD
		32.35		DETENTION BASIN BERM ROAD
		31.07		DETENTION BASIN BERM ROAD
		31.68		DETENTION BASIN BERM ROAD
		33.47		DETENTION BASIN BERM ROAD
		32.38		DETENTION BASIN BERM ROAD
6" STONE	1/24/97	25.26		ATLANTIC AVENUE DRAINWAY
		25.56		ATLANTIC AVENUE DRAINWAY
		25.21		ATLANTIC AVENUE DRAINWAY
		31.92		ATLANTIC AVENUE DRAINWAY
		25.51		ATLANTIC AVENUE DRAINWAY
		31.96		ATLANTIC AVENUE DRAINWAY
		32.77		ATLANTIC AVENUE DRAINWAY
		31.12		ATLANTIC AVENUE DRAINWAY
		25.43		ATLANTIC AVENUE DRAINWAY
3/4" STONE	1/24/97	32.56		ALT COVER SURFACE
		32.32		ALT COVER SURFACE
		31.92		ALT COVER SURFACE
		25.15		ALT COVER SURFACE
1" LYNPAC DG	1/27/97	35.21		DRAINAGE STR. GRAVEL BORROW
		35.5		DRAINAGE STR. GRAVEL BORROW
		34.39		DRAINAGE STR. GRAVEL BORROW
		35.79		DRAINAGE STR. GRAVEL BORROW
		35.02		DRAINAGE STR. GRAVEL BORROW

MATERIAL SUMMARY

MATERIALS DESCRIPTION	DATE	QTY		PLACEMENT
3/4" STONE	1/27/97	33.08	TONS	ALT. COVER SURFACE
		33.44		ALT. COVER SURFACE
		33.43		ALT. COVER SURFACE
		35.49		ALT. COVER SURFACE
		34.4		ALT. COVER SURFACE
3/4" STONE	1/27/97	33.35	TONS	ALT. COVER SURFACE
		33.12		ALT. COVER SURFACE
3/4" STONE	1/29/97	24.78		ALT. COVER SURFACE
		24.28		ALT. COVER SURFACE
		24.94		ALT. COVER SURFACE
		25.19		ALT. COVER SURFACE
		25.48		ALT. COVER SURFACE
		24.84		ALT. COVER SURFACE
		35.02		ALT. COVER SURFACE
		24.84		ALT. COVER SURFACE
		25.09		ALT. COVER SURFACE
		25.06		ALT. COVER SURFACE
		25.18		ALT. COVER SURFACE
		30.98		ALT. COVER SURFACE
		24.76		ALT. COVER SURFACE
		25.05		ALT. COVER SURFACE
1" LYNPAC	1/30/97	32.42		DRAINAGE STR. GRAVEL BORROW
		32.06		DRAINAGE STR. GRAVEL BORROW
3" STONE	1/30/97	35.16		ATLANTIC AVENUE DRAINWAY
		32.42		ATLANTIC AVENUE DRAINWAY
		33.73		ATLANTIC AVENUE DRAINWAY
		33.06		ATLANTIC AVENUE DRAINWAY
		35.57		ATLANTIC AVENUE DRAINWAY
3/4" STONE	1/30/97	35.26		ALT. COVER SURFACE
		35.43		ALT. COVER SURFACE
		34.02		ALT. COVER SURFACE
40-3/4-HYC w/ 1% Polarset (concrete)	1/31/97	14	CY	T.O.U. BLDG. & GWT BLDG.
3/4" STONE	1/31/97	34.01	TONS	ALT COVER SURFACE
		35.02		ALT COVER SURFACE
		35.01		ALT COVER SURFACE
		35.71		ALT COVER SURFACE
		35.06		ALT COVER SURFACE
		34.54		ALT COVER SURFACE

APPENDIX H.5.1

SOIL MATERIAL QUANTITIES PURCHASED BY THE TRUST

APPENDIX H.5.1
SOIL AND TOPSOIL MATERIAL
QUANTITIES PURCHASED BY THE TRUST

MATERIAL DESCRIPTION	DATE	QUANTITY
Haverhill soil	2/96	5,148 cy (loose)
Haverhill soil	3/96	9,516 cy (loose)
	TOTAL:	14,664

APPENDIX H.5.1
SOIL AND TOPSOIL MATERIAL
QUANTITIES PURCHASED BY THE TRUST

MATERIAL DESCRIPTION	DATE	QUANTITY
Bradford Sand	5/96	1,014 cy (loose)
Bradford Sand	5/96	2,886 cy (loose)
Bradford Sand	5/96	208 cy (loose)
Bradford Sand	5/96	806 cy (loose)
Bradford Sand	6/96	3,224 cy (loose)
Bradford Sand	6/96	1,352 cy (loose)
Bradford Sand	6/96	1,534 cy (loose)
Bradford Sand	7/96	8,060 cy (loose)
Bradford Sand	7/96	3,952 cy (loose)
Bradford Sand	7/96	3,042 cy (loose)
Bradford Sand	8/96	5,070 cy (loose)
Bradford Sand	8/96	390 cy (loose)
Bradford Sand	8/96	5,564 cy (loose)
Bradford Sand	9/96	3,460 cy (loose)
Bradford Sand	9/96	4,394 cy (loose)
Bradford Sand	9/96	6,942 cy (loose)
Bradford Sand	9/96	9,334 cy (loose)
Bradford Sand	9/96	4,264 cy (loose)
Bradford Sand	10/96	5,122 cy (loose)
Bradford Sand	10/96	6,526 cy (loose)
Bradford Sand	10/96	6,734 cy (loose)
Bradford Sand	10/96	6,214 cy (loose)
Bradford Sand	11/96	6,682 cy (loose)
Bradford Sand	11/96	3,380 cy (loose)
Bradford Sand	11/96	8,580 cy (loose)
Bradford Sand	11/96	1,630 cy (loose)
Bradford Sand	12/96	6,006 cy (loose)
Bradford Sand	12/96	5,148 cy (loose)
Bradford Sand	12/96	4,836 cy (loose)
Bradford Sand	12/96	4,420 cy (loose)
Bradford Sand	12/96	8,710 cy (loose)
Bradford Sand	1/97	2,366 cy (loose)
Bradford Sand	1/97	9,802 cy (loose)
Bradford Sand	1/97	6,318 cy (loose)
Bradford Sand	1/97	4,420 cy (loose)
	TOTAL:	162,336

APPENDIX H.5.1
SOIL AND TOPSOIL MATERIAL
QUANTITIES PURCHASED BY THE TRUST

MATERIAL DESCRIPTION	DATE	QUANTITY
Revere sand	9/96	4,575 cy (loose)
Revere sand	9/96	15,650 cy (loose)
Revere sand	10/96	10,775 cy (loose)
Revere sand	10/96	6,025 cy (loose)
Revere sand	10/96	6,300 cy (loose)
Revere sand	11/96	2,950 cy (loose)
Revere sand	12/96	396 cy (loose)
Revere sand	12/96	400 cy (loose)
	TOTAL:	47,071

APPENDIX H.5.1
SOIL AND TOPSOIL MATERIAL
QUANTITIES PURCHASED BY THE TRUST

MATERIAL DESCRIPTION	DATE	QUANTITY
Plymouth sand	1/97	1,800 cy (loose)
	TOTAL:	1,800

APPENDIX H.5.1
SOIL AND TOPSOIL MATERIAL
QUANTITIES PURCHASED BY THE TRUST

MATERIAL DESCRIPTION	DATE	QUANTITY
Hubbardston/Gardner	12/96	1,612 cy (loose)
Hubbardston/Gardner	12/96	3,042 cy (loose)
Hubbardston/Gardner	12/96	4,264 cy (loose)
Hubbardston/Gardner	1/97	5,876 cy (loose)
Hubbardston/Gardner	1/97	3,484 cy (loose)
Hubbardston/Gardner	1/97	1,508 cy (loose)
Hubbardston/Gardner	1/97	702 cy (loose)
	TOTAL:	20,488

APPENDIX H.6

SOIL ANALYTICAL TESTS

HAVERHILL SOIL

Thermo Analytical
300 Second Avenue
P.O. Box 521
Waltham, MA 02254
Attn: Client Services
Phone: (617) 890-7200

Rust Remedial Services Inc.
41 Atlantic Ave
Woburn MA 01801

Attn: B. Spedding

Purchase Order: LP23263
Invoice Number: 42719

Order #: S5-12-025
Date: 01/31/96 17:55
Work ID: I-Plex
Date Received: 12/05/95
Date Completed: 01/31/96

Client Code: RUST_WOBURN

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	HAVERHILL	02	Semi-volatile Blank

Certified By

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Order # S5-12-025 Thermo Analytical Page 2
01/31/96 17:55 TEST RESULTS BY SAMPLE

Sample: 01D HAVERHILL Collected: 12/04/95 Category: SOIL
Job: TALMTS TAL Metals in Soil

Test Description	Result	Limit	Units	Analyzed	By
Aluminum - ICP	7100	15.0	mg/kg	12/12/95	JST
Antimony - ICP	U	10.0	mg/kg	12/12/95	JST
Arsenic - Trace Analyzer	4.95	1.00	mg/kg	12/12/95	JGS
Barium - ICP	17.2	2.00	mg/kg	12/12/95	JST
Beryllium - ICP	U	1.00	mg/kg	12/12/95	JST
Cadmium - ICP	U	1.00	mg/kg	12/12/95	JST
Calcium - ICP	1090	15.0	mg/kg	12/12/95	JST
Chromium - ICP	16.6	4.00	mg/kg	12/12/95	JST
Cobalt - ICP	3.68	2.00	mg/kg	12/12/95	JST
Copper - ICP	5.53	2.00	mg/kg	12/12/95	JST
Iron - ICP	6800	6.00	mg/kg	12/12/95	JST
Lead - Trace Analyzer	5.37	1.00	mg/kg	12/13/95	JGS
Magnesium - ICP	2110	15.0	mg/kg	12/12/95	JST
Manganese - ICP	77.6	2.00	mg/kg	12/12/95	JST
Mercury - Cold Vapor AA	U	0.11	mg/kg	12/07/95	QR
Nickel - ICP	12.4	3.00	mg/kg	12/12/95	JST
Potassium - ICP	725	15.0	mg/kg	12/12/95	JST
Selenium - Trace Analyzer	U	1.00	mg/kg	12/13/95	JGS
Silver - ICP	U	2.00	mg/kg	12/12/95	JST
Sodium - ICP	63.8	15.0	mg/kg	12/12/95	JST
Thallium - Trace Analyzer	U	1.00	mg/kg	12/13/95	JGS
Vanadium - ICP	11.6	2.00	mg/kg	12/12/95	JST
Zinc - ICP	20.2	4.00	mg/kg	12/12/95	JST

Sample: 01E HAVERHILL Collected: 12/04/95 Category: SOIL

Test Description	Result	Limit	Units	Analyzed	By
Cyanide Analysis - Solid	U	0.51	mg/kg	12/13/95	RB

Sample: 01F HAVERHILL Collected: 12/04/95 Category: SOIL

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbons	U	13.1	mg/kg	12/15/95	YLK

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TMA
Thermo Analytical
300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200 1-800-4LAB TEST Fax: (617) 890-3883

Order # SS-12-025 Thermo Analytical Page 3
01/31/96 17:55 TEST RESULTS BY SAMPLE

Sample Description: HAVERHILL Lab No: 01A
Test Description: Soil/VOA Method: SW846 8240 Test Code: 8240_S
Collected: 12/04/95 11:00 Category: SOIL

DATE INJECTED 12/07/95 DILUTION FACTOR 1.10
All results reported in ug/kg

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	U	11	Bromodichloromethane	U	5.5
Vinyl Chloride	U	11	2-Chloroethyl Vinyl Ether	U	5.5
Bromomethane	U	11	4-Methyl-2-pentanone	U	11
Chloroethane	U	11	cis-1,3-Dichloropropene	U	5.5
Trichlorofluoromethane	U	5.5	Toluene	U	5.5
Acetone	12	11	trans-1,3-Dichloropropene	U	5.5
1,1-Dichloroethene	U	5.5	1,1,2-Trichloroethane	U	5.5
Carbon Disulfide	U	5.5	2-Hexanone	U	11
Methylene Chloride	U	5.5	Tetrachloroethene	U	5.5
1,2-Dichloroethene (total)	U	5.5	Dibromochloromethane	U	5.5
1,1-Dichloroethane	U	5.5	Chlorobenzene	U	5.5
Vinyl Acetate	U	11	Ethylbenzene	U	5.5
2-Butanone	U	11	m and p-Xylene	U	5.5
Chloroform	U	5.5	o-Xylene	U	5.5
1,1,1-Trichloroethane	U	5.5	Styrene	U	5.5
Carbon Tetrachloride	U	5.5	Bromoform	U	5.5
Benzene	U	5.5	1,1,2,2-Tetrachloroethane	U	5.5
1,2-Dichloroethane	U	5.5	1,3-Dichlorobenzene	U	5.5
Trichloroethene	U	5.5	1,4-Dichlorobenzene	U	5.5
1,2-Dichloropropane	U	5.5	1,2-Dichlorobenzene	U	5.5

SURROGATE STANDARDS	% RECOVERY	LIMITS
1,2-Dichloroethane-D4	109	82 - 138
Toluene-D8	109	72 - 135
1-Bromo-4-fluorobenzene	104	74 - 119

NOTES AND DEFINITIONS FOR THIS REPORT
U = not detected at stated detection limit
Q = result exceeds quality control limit
B = Compound present in the method blank

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Thermo Analytical
300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200 1-800-4LAB TEST Fax: (617) 890-3883

Order # S5-12-025 Thermo Analytical Page 4
01/31/96 17:55 TEST RESULTS BY SAMPLE

Sample Description: HAVERHILL Lab No: 01B
Test Description: Soil/SVOA Method: SW846 8270 Test Code: 8270_S
Collected: 12/04/95 11:00 Category: SOIL

DATE INJECTED 12/12/95 DATE EXTRACTED 12/08/95 DILUTION FACTOR 1.10
All results reported in ug/kg on a dry basis

COMPOUND	RESULT	DET LIMIT
N-nitrosodimethylamine	U	360
phenol	U	360
2-chlorophenol	U	360
bis(2-chloroethyl)ether	U	360
1,3-dichlorobenzene	U	360
1,4-dichlorobenzene	U	360
benzyl alcohol	U	360
1,2-dichlorobenzene	U	360
2-methylphenol	U	360
bis(2-chloroisopropyl)ether	U	360
4-methylphenol	U	360
N-nitrosodi-n-propylamine	U	360
hexachloroethane	U	360
nitrobenzene	U	360
benzoic acid	U	1900
isophorone	U	360
2-nitrophenol	U	360
2,4-dimethylphenol	U	360
bis(2-chloroethoxy)methane	U	360
2,4-dichlorophenol	U	360
naphthalene	U	360
1,2,4-trichlorobenzene	U	360
4-chloroaniline	U	360
hexachlorobutadiene	U	360
4-chloro-3-methylphenol	U	360
2-methylnaphthalene	U	360
hexachlorocyclopentadiene	U	360
2,4,6-trichlorophenol	U	360
2,4,5-trichlorophenol	U	1900
2-chloronaphthalene	U	360
2-nitroaniline	U	1900
dimethyl phthalate	U	360
acenaphthylene	U	360
2,6-dinitrotoluene	U	360

COMPOUND	RESULT	DET LIMIT
3-nitroaniline	U	1900
acenaphthene	U	360
2,4-dinitrophenol	U	1900
4-nitrophenol	U	1900
dibenzofuran	U	360
2,4-dinitrotoluene	U	360
fluorene	U	360
diethyl phthalate	U	360
4-nitroaniline	U	1900
4-chlorophenyl phenyl ether	U	360
2-methyl-4,6-dinitrophenol	U	1900
N-nitrosodiphenylamine	U	360
4-bromophenyl phenyl ether	U	360
hexachlorobenzene	U	360
pentachlorophenol	U	1900
phenanthrene	U	360
anthracene	U	360
di-n-butyl phthalate	430 B	360
fluoranthene	U	360
benzidine	U	360
pyrene	U	360
butyl benzyl phthalate	U	360
3,3'-dichlorobenzidine	U	360
benzo(a)anthracene	U	360
chrysene	U	360
bis(2-ethylhexyl)phthalate	U	360
di-n-octyl phthalate	U	360
benzo(b)fluoranthene	U	360
benzo(k)fluoranthene	U	360
benzo(a)pyrene	U	360
indeno(1,2,3-cd)pyrene	U	360
dibenzo(a,h)anthracene	U	360
benzo(ghi)perylene	U	360

NOTES AND DEFINITIONS FOR THIS REPORT
U = not detected at stated detection limit
Q = recovery exceeds quality control limit
B = compound present in method blank
J = compound detected below quantitation limit

SURROGATE STDS.	%RECOVERY	LIMITS
nitrobenzene-D5	92	23 - 120
2-fluorobiphenyl	89	30 - 115
terphenyl-D14	93	18 - 137
2-fluorophenol	86	25 - 121
phenol-D5	92	24 - 113
2,4,6-tribromophenol	87	19 - 122

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Thermo Analytical
300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200 1-800-4LAB TEST Fax: (617) 890-3883

Order # S5-12-025 Thermo Analytical Page 5
01/31/96 17:55 TEST RESULTS BY SAMPLE

Sample Description: HAVERHILL Lab No: 01C
Test Description: PCBs and Pesticides/Solids Method: SW846 8080 Test Code: 8080_S
Collected: 12/04/95 11:00 Category: SOIL

PARAMETER	RESULT	LIMIT
Aldrin	U	1.8
Alpha-BHC	U	1.8
Beta-BHC	U	1.8
Delta-BHC	U	1.8
Gamma-BHC (Lindane)	U	1.8
Chlordane (Technical)	U	72
4,4'-DDD	U	3.6
4,4'-DDE	U	3.6
4,4'-DDT	U	3.6
Dieldrin	U	3.6
Endosulfan I	U	1.8
Endosulfan II	U	3.6
Endosulfan Sulfate	U	3.6
Endrin	U	3.6
Endrin Aldehyde	U	3.6
Heptachlor	U	1.8
Heptachlor Epoxide	U	1.8
Methoxychlor	U	18
Toxaphene	U	180
Aroclor-1016	U	36
Aroclor-1221	U	72
Aroclor-1232	U	36
Aroclor-1242	U	36
Aroclor-1248	U	36
Aroclor-1254	U	36
Aroclor-1260	U	36

Notes and Definitions for this Report:

Date Extracted 12/11/95
Date Analyzed 12/13/95
Conc Factor 1.08
Units ug/kg
U = Undetected at specified limit
J = Detected below quantitation limit

This report is rendered upon all of the following conditions: Thermo Analytical retains ownership of this report until associated submitted invoice is satisfied. Expert witness services shall be available in conjunction with this report only if prior notification of this potential requirement was made and accepted before the analysis. Client will be responsible for Thermo Analytical costs and consulting fees if our services are required by subpoena or otherwise in legal proceedings. Total liability is limited to the invoice amount. The results listed refer only to tested samples and applicable parameters. Samples are not analyzed in accordance with New York State protocol unless indicated. Product endorsement is neither inferred nor implied. Thermo Analytical will exercise due diligence but will not be responsible for lost or destroyed samples or evidence unless client makes appropriate insurance coverage arrangements. Samples are held for thirty days following issuance of report. Samples will be stored at client's expense, if authorized in writing.

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Order # S5-12-025 Thermo Analytical Page 6
01/31/96 17:55 TEST RESULTS BY SAMPLE

Sample Description: Semi-volatile Blank Lab No: 02A
Test Description: Soil/SVOA Category: SOILS 8270 Test Code: 8270_S

DATE INJECTED 12/11/95 DATE EXTRACTED 12/08/95 DILUTION FACTOR 1.00
All results reported in ug/kg on a dry basis

COMPOUND	RESULT	DET LIMIT
N-nitrosodimethylamine	U	330
phenol	U	330
2-chlorophenol	U	330
bis(2-chloroethyl)ether	U	330
1,3-dichlorobenzene	U	330
1,4-dichlorobenzene	U	330
benzyl alcohol	U	330
1,2-dichlorobenzene	U	330
2-methylphenol	U	330
bis(2-chloroisopropyl)ether	U	330
4-methylphenol	U	330
N-nitrosodi-n-propylamine	U	330
hexachloroethane	U	330
nitrobenzene	U	330
benzoic acid	U	1700
isophorone	U	330
2-nitrophenol	U	330
2,4-dimethylphenol	U	330
bis(2-chloroethoxy)methane	U	330
2,4-dichlorophenol	U	330
naphthalene	U	330
1,2,4-trichlorobenzene	U	330
4-chloroaniline	U	330
hexachlorobutadiene	U	330
4-chloro-3-methylphenol	U	330
2-methylnaphthalene	U	330
hexachlorocyclopentadiene	U	330
2,4,6-trichlorophenol	U	330
2,4,5-trichlorophenol	U	1700
2-chloronaphthalene	U	330
2-nitroaniline	U	1700
dimethyl phthalate	U	330
acenaphthylene	U	330
2,6-dinitrotoluene	U	330

COMPOUND	RESULT	DET LIMIT
3-nitroaniline	U	1700
acenaphthene	U	330
2,4-dinitrophenol	U	1700
4-nitrophenol	U	1700
dibenzofuran	U	330
2,4-dinitrotoluene	U	330
fluorene	U	330
diethyl phthalate	U	330
4-nitroaniline	U	1700
4-chlorophenyl phenyl ether	U	330
2-methyl-4,6-dinitrophenol	U	1700
N-nitrosodiphenylamine	U	330
4-bromophenyl phenyl ether	U	330
hexachlorobenzene	U	330
pentachlorophenol	U	1700
phenanthrene	U	330
anthracene	U	330
di-n-butyl phthalate	1100	330
fluoranthene	U	330
benzidine	U	330
pyrene	U	330
butyl benzyl phthalate	U	330
3,3'-dichlorobenzidine	U	330
benzo(a)anthracene	U	330
chrysene	U	330
bis(2-ethylhexyl)phthalate	U	330
di-n-octyl phthalate	U	330
benzo(b)fluoranthene	U	330
benzo(k)fluoranthene	U	330
benzo(a)pyrene	U	330
indeno(1,2,3-cd)pyrene	U	330
dibenzo(a,h)anthracene	U	330
benzo(ghi)perylene	U	330

NOTES AND DEFINITIONS FOR THIS REPORT
U = not detected at stated detection limit
Q = recovery exceeds quality control limit
B = compound present in method blank
J = compound detected below quantitation limit

SURROGATE STDS.	%RECOVERY	LIMITS
nitrobenzene-D5	79	23 - 120
2-fluorobiphenyl	75	30 - 115
terphenyl-D14	82	18 - 137
2-fluorophenol	72	25 - 121
phenol-D5	77	24 - 113
2,4,6-tribromophenol	71	19 - 122

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Thermo Analytical
300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200 1-800-4LAB TEST Fax: (617) 890-3883

SW846 Method 7471 - Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique). Percent solids determined and results reported on a dry weight basis.

The samples were composited per client request.

USEPA Test Methods for the Evaluation of Solid Waste (SW846, 3rd Edition)
Method 8080 -- Organochlorine Pesticides and PCBs (Gas Chromatography)

SW846 Method 6010 - Silver - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Aluminum - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Barium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Beryllium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Calcium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Cadmium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Cobalt - Inductively Coupled Plasma Spectroscopy

SW846 Method 6010 - Chromium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Copper - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Iron - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Potassium - Inductively Coupled Plasma Spectroscopy

SW846 Method 6010 - Magnesium - Inductivley Coupled Plasma Spectroscopy

SW846 Method 6010 - Manganese - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Sodium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Nickel - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Antimony - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Vanadium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Zinc - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Arsenic - Inductively Coupled Plasma Spectroscopy (ICP)
Using Thermo Jarrell Ash ICAP 61E Trace

SW846 Method 6010 - Lead - Inductively Coupled Plasma Spectroscopy (ICP)
Using Thermo Jarrell Ash ICAP 61E Trace

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SW846 Method 6010 - Selenium - Inductively Coupled Plasma Spectroscopy (ICP)
Using Thermo Jarrell Ash ICAP 61E Trace

SW846 Method 6010 - Thallium - Inductively Coupled Plasma Spectroscopy (ICP)
Using Thermo Jarrell Ash ICAP 61E Trace

SW846 Method 3050 - Acid Digestion of Sediments, Sludges and Soils
Percent Solids determined and results reported on a dry weight basis.

USEPA Test Methods for Evaluating Solid Wastes (SW846, Third Edition)
Method 8270 -- Gas Chromatography/Mass Spectrometry for Semi-Volatile Organics: Capillary Column Technique

USEPA Test Methods for Evaluating Solid Wastes (SW846, Third Edition)
Method 8240 -- Gas Chromatography/Mass Spectrometry for Volatile Organics

SW846 Method 3550 - Sonication Extraction of solids for PCB and/or pesticide analysis.

USEPA Test Methods for Evaluating Solid Waste (SW846, Third Edition)
Method 3550 -- Sonication Extraction

SW846 Method 9012 - Colorimetric, Automatic UV. Results reported on a dry weight basis.

Petroleum Hydrocarbons in Soil, Total Recoverable
EPA-600 Methods for Chemical Analysis of Water and Wastes
Method 418.1 (Spectrophotometric, Infrared)

TMA Thermo Analytical

P.O # LP23263
CONTACT WILLIAM SPEDDING

Chain of Custody Record

1 of 6

300 Second Avenue, P.O. Box 521 • Waltham MA 02254-0521 • (617) 890-7200 Fax: (617) 890-3883 DATE _____ PAGE ___ OF ___

CLIENT OHM
ADDRESS 41 ATLANTIC AVE.
WOBURN, MA. 01801

Project Name I-PLEX
Sampler (Signature) Eric P. Hammann FOR JEFF CRICHAM

Sample No.	Date	Time	COMP.	GRAB	Location	TCLP volatiles 8240	TCLP Semi volatile 8270	TCLP Pesticides, PCB's 8080	Total TAL Metals	Total CYANIDE	TPH 418.1				Iced	Filtered	Preservative	Sample Type	NUMBER OF CONTAINERS	Observations/ Comments
HAVERHILL	12-4-95	1100	X				X	X	X	X	X				X			Soil Matrix	1	
HAVERHILL VOA	12-4-95	1100		X		X									Y			Soil Matrix	5	LAB to composited
																				treat as one sample
																				"HAVERHILL VOA"
																				TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE	METHOD OF SHIPMENT
Signature: Eric P. Hammann	12-5-95	Signature		Signature		Signature		
Printed Name: Eric P. Hammann	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	
Company: RAS/OHM	10:45 A.M.	Company		Company		Company		SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS
RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (Laboratory)	DATE	
Signature		Signature		Signature		Signature: J. DeRosto	12/5/95	
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	
Company		Company		Company		Thermo Analytical	11:00	

Thermo Analytical
300 Second Avenue
P.O. Box 521
Waltham, MA 02254
Attn: Client Services
Phone: (617) 890-7200

Rust Remedial Services Inc.
41 Atlantic Ave
Woburn MA 01801

Attn: William Spedding

Purchase Order: LP23265
Invoice Number: 42983

Order #: S6-01-102
Date: 02/06/96 11:18
Work ID: I-Plex
Date Received: 01/24/96
Date Completed: 02/06/96

Client Code: RUST_WOBURN

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	HAVERHILL COMP	02	HAVERHILL VOA

Certified By

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Sample: 01C HAVERHILL COMP Collected: 01/17/96 Category: SOIL

Test Description	Result	Limit	Units	Analyzed	By
Cyanide Analysis - Solid	U	0.53	mg/kg	01/25/96	RB

Sample: 01D HAVERHILL COMP Collected: 01/17/96 Category: SOIL

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbons	U	12.7	mg/kg	01/26/96	YLK

Sample: 01E HAVERHILL COMP Collected: 01/17/96 Category: SOIL
Job: TALMTS TAL Metals in Soil

Test Description	Result	Limit	Units	Analyzed	By
Aluminum - ICP	7090	15.5	mg/kg	01/29/96	JST
Antimony - ICP	U	10.3	mg/kg	01/29/96	JST
Arsenic - Trace Analyzer	5.82	1.03	mg/kg	01/30/96	JST
Barium - ICP	31.5	2.06	mg/kg	01/29/96	JST
Beryllium - ICP	U	1.03	mg/kg	01/29/96	JST
Cadmium - ICP	U	1.03	mg/kg	01/29/96	JST
Calcium - ICP	2090	15.5	mg/kg	01/29/96	JST
Chromium - ICP	27.2	4.13	mg/kg	01/29/96	JST
Cobalt - ICP	5.72	2.06	mg/kg	01/29/96	JST
Copper - ICP	8.08	2.06	mg/kg	01/29/96	JST
Iron - ICP	8750	6.19	mg/kg	01/29/96	JST
Lead - Trace Analyzer	7.55	1.03	mg/kg	01/30/96	JST
Magnesium - ICP	3290	15.5	mg/kg	01/29/96	JST
Manganese - ICP	142	2.06	mg/kg	01/29/96	JST
Mercury - Cold Vapor AA	U	0.11	mg/kg	01/25/96	OR
Nickel - ICP	18.9	3.09	mg/kg	01/29/96	JST
Potassium - ICP	1670	15.5	mg/kg	01/29/96	JST
Selenium - Trace Analyzer	U	1.03	mg/kg	01/30/96	JST
Silver - ICP	U	2.06	mg/kg	01/29/96	JST
Sodium - ICP	154	15.5	mg/kg	01/29/96	JST
Thallium - Trace Analyzer	U	1.03	mg/kg	01/30/96	JST
Vanadium - ICP	16.5	2.06	mg/kg	01/29/96	JST
Zinc - ICP	30.0	4.13	mg/kg	01/29/96	JST

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TMA
Thermo Analytical
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Sample Description: HAVERHILL COMP Lab No: 01A
Test Description: Soil/SVOA Method: SW846 8270 Test Code: 8270_S
Collected: 01/17/96 09:45 Category: SOIL

DATE INJECTED 01/31/96 DATE EXTRACTED 01/29/96 DILUTION FACTOR 1.10
All results reported in ug/kg on a dry basis

COMPOUND	RESULT	DET LIMIT
N-nitrosodimethylamine	U	360
phenol	U	360
2-chlorophenol	U	360
bis(2-chloroethyl)ether	U	360
1,3-dichlorobenzene	U	360
1,4-dichlorobenzene	U	360
benzyl alcohol	U	360
1,2-dichlorobenzene	U	360
2-methylphenol	U	360
bis(2-chloroisopropyl)ether	U	360
4-methylphenol	U	360
N-nitrosodi-n-propylamine	U	360
hexachloroethane	U	360
nitrobenzene	U	360
benzoic acid	U	1900
isophorone	U	360
2-nitrophenol	U	360
2,4-dimethylphenol	U	360
bis(2-chloroethoxy)methane	U	360
2,4-dichlorophenol	U	360
naphthalene	U	360
1,2,4-trichlorobenzene	U	360
4-chloroaniline	U	360
hexachlorobutadiene	U	360
4-chloro-3-methylphenol	U	360
2-methylnaphthalene	U	360
hexachlorocyclopentadiene	U	360
2,4,6-trichlorophenol	U	360
2,4,5-trichlorophenol	U	1900
2-chloronaphthalene	U	360
2-nitroaniline	U	1900
dimethyl phthalate	U	360
acenaphthylene	U	360
2,6-dinitrotoluene	U	360

COMPOUND	RESULT	DET LIMIT
3-nitroaniline	U	1900
acenaphthene	U	360
2,4-dinitrophenol	U	1900
4-nitrophenol	U	1900
dibenzofuran	U	360
2,4-dinitrotoluene	U	360
fluorene	U	360
diethyl phthalate	U	360
4-nitroaniline	U	1900
4-chlorophenyl phenyl ether	U	360
2-methyl-4,6-dinitrophenol	U	1900
N-nitrosodiphenylamine	U	360
4-bromophenyl phenyl ether	U	360
hexachlorobenzene	U	360
pentachlorophenol	U	1900
phenanthrene	U	360
anthracene	U	360
di-n-butyl phthalate	U	360
fluoranthene	U	360
benzidine	U	360
pyrene	U	360
butyl benzyl phthalate	U	360
3,3'-dichlorobenzidine	U	360
benzo(a)anthracene	U	360
chrysene	U	360
bis(2-ethylhexyl)phthalate	U	360
di-n-octyl phthalate	U	360
benzo(b)fluoranthene	U	360
benzo(k)fluoranthene	U	360
benzo(a)pyrene	U	360
indeno(1,2,3-cd)pyrene	U	360
dibenzo(a,h)anthracene	U	360
benzo(ghi)perylene	U	360

NOTES AND DEFINITIONS FOR THIS REPORT
U = not detected at stated detection limit
Q = recovery exceeds quality control limit
B = compound present in method blank
J = compound detected below quantitation limit

SURROGATE STDS.	%RECOVERY	LIMITS
nitrobenzene-D5	100	23 - 120
2-fluorobiphenyl	103	30 - 115
terphenyl-D14	115	18 - 137
2-fluorophenol	84	25 - 121
phenol-D5	90	24 - 113
2,4,6-tribromophenol	112	19 - 122

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TMA
Thermo Analytical
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Sample Description: HAVERHILL COMP Lab No: 01B
Test Description: PCBs and Pesticides/Solids Method: SW846 8080 Test Code: 8080_S
Collected: 01/17/96 09:45 Category: SOIL

PARAMETER	RESULT	LIMIT
Aldrin	U	1.8
Alpha-BHC	U	1.8
Beta-BHC	U	1.8
Delta-BHC	U	1.8
Gamma-BHC (Lindane)	U	1.8
Chlordane (Technical)	U	73
4,4'-DDD	U	3.6
4,4'-DDE	U	3.6
4,4'-DDT	U	3.6
Dieldrin	U	3.6
Endosulfan I	U	1.8
Endosulfan II	U	3.6
Endosulfan Sulfate	U	3.6
Endrin	U	3.6
Endrin Aldehyde	U	3.6
Heptachlor	U	1.8
Heptachlor Epoxide	U	1.8
Methoxychlor	U	18
Toxaphene	U	180
Aroclor-1016	U	36
Aroclor-1221	U	73
Aroclor-1232	U	36
Aroclor-1242	U	36
Aroclor-1248	U	36
Aroclor-1254	U	36
Aroclor-1260	U	36

Notes and Definitions for this Report:

Date Extracted 01/29/96
Date Analyzed 01/31/96
Conc Factor 1.083
Units ug/kg
U = Undetected at specified limit
J = Detected below quantitation limit

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TEST RESULTS BY SAMPLE

Sample Description: HAVERHILL VOA
Test Description: Soil/VOA
Collected: 01/17/96 09:32

Lab No: 02A
Method: SW846 8240 Test Code: 8240_S
Category: SOIL

DATE INJECTED 01/26/95 DILUTION FACTOR 1.10
All results reported in ug/kg

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	U	11	Bromodichloromethane	U	5.5
Vinyl Chloride	U	11	2-Chloroethyl Vinyl Ether	U	5.5
Bromomethane	U	11	4-Methyl-2-pentanone	U	11
Chloroethane	U	11	cis-1,3-Dichloropropene	U	5.5
Trichlorofluoromethane	U	5.5	Toluene	U	5.5
Acetone	23	11	trans-1,3-Dichloropropene	U	5.5
1,1-Dichloroethene	U	5.5	1,1,2-Trichloroethane	U	5.5
Carbon Disulfide	U	5.5	2-Hexanone	U	11
Methylene Chloride	11	5.5	Tetrachloroethene	U	5.5
1,2-Dichloroethene (total)	U	5.5	Dibromochloromethane	U	5.5
1,1-Dichloroethane	U	5.5	Chlorobenzene	U	5.5
Vinyl Acetate	U	11	Ethylbenzene	U	5.5
2-Butanone	U	11	m and p-Xylene	U	5.5
Chloroform	U	5.5	o-Xylene	U	5.5
1,1,1-Trichloroethane	U	5.5	Styrene	U	5.5
Carbon Tetrachloride	U	5.5	Bromoform	U	5.5
Benzene	U	5.5	1,1,2,2-Tetrachloroethane	U	5.5
1,2-Dichloroethane	U	5.5	1,3-Dichlorobenzene	U	5.5
Trichloroethene	U	5.5	1,4-Dichlorobenzene	U	5.5
1,2-Dichloropropane	U	5.5	1,2-Dichlorobenzene	U	5.5

SURROGATE STANDARDS	% RECOVERY	LIMITS
1,2-Dichloroethane-D4	115	82 - 138
Toluene-D8	113	72 - 135
1-Bromo-4-fluorobenzene	106	74 - 119

NOTES AND DEFINITIONS FOR THIS REPORT
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Q = result exceeds quality control limit
B = Compound present in the method blank

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Thermo Analytical
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Sample Description: VOA Blank
Test Description: Soil/VOA
Collected: 01/17/96 09:32

Lab No: 02C
Method: SW846 8240 Test Code: 8240_S
Category: SOIL

DATE INJECTED 01/26/96 DILUTION FACTOR 1.00
All results reported in ug/kg

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
Chloromethane	U	10	Bromodichloromethane	U	5.0
Vinyl Chloride	U	10	2-Chloroethyl Vinyl Ether	U	5.0
Bromomethane	U	10	4-Methyl-2-pentanone	U	10
Chloroethane	U	10	cis-1,3-Dichloropropene	U	5.0
Trichlorofluoromethane	U	5.0	Toluene	U	5.0
Acetone	U	10	trans-1,3-Dichloropropene	U	5.0
1,1-Dichloroethene	U	5.0	1,1,2-Trichloroethane	U	5.0
Carbon Disulfide	U	5.0	2-Hexanone	U	10
Methylene Chloride	U	5.0	Tetrachloroethene	U	5.0
1,2-Dichloroethene (total)	U	5.0	Dibromochloromethane	U	5.0
1,1-Dichloroethane	U	5.0	Chlorobenzene	U	5.0
Vinyl Acetate	U	10	Ethylbenzene	U	5.0
2-Butanone	U	10	m and p-Xylene	U	5.0
Chloroform	U	5.0	o-Xylene	U	5.0
1,1,1-Trichloroethane	U	5.0	Styrene	U	5.0
Carbon Tetrachloride	U	5.0	Bromoform	U	5.0
Benzene	U	5.0	1,1,2,2-Tetrachloroethane	U	5.0
1,2-Dichloroethane	U	5.0	1,3-Dichlorobenzene	U	5.0
Trichloroethene	U	5.0	1,4-Dichlorobenzene	U	5.0
1,2-Dichloropropane	U	5.0	1,2-Dichlorobenzene	U	5.0

SURROGATE STANDARDS	% RECOVERY	LIMITS
1,2-Dichloroethane-D4	118	82 - 138
Toluene-D8	110	72 - 135
1-Bromo-4-fluorobenzene	110	74 - 119

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SW846 Method 7471 - Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique). Percent solids determined and results reported on a dry weight basis.

The samples were composited per client request.

USEPA Test Methods for the Evaluation of Solid Waste (SW846, 3rd Edition) Method 8080 -- Organochlorine Pesticides and PCBs (Gas Chromatography)

SW846 Method 6010 - Silver - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Aluminum - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Barium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Beryllium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Calcium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Cadmium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Cobalt - Inductively Coupled Plasma Spectroscopy

SW846 Method 6010 - Chromium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Copper - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Iron - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Potassium - Inductively Coupled Plasma Spectroscopy

SW846 Method 6010 - Magnesium - Inductivley Coupled Plasma Spectroscoey

SW846 Method 6010 - Manganese - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Sodium - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Nickel - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Antimony - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Vanadium - Inductively Coupled Plasma Spectroscopy (ICP)

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SW846 Method 6010 - Zinc - Inductively Coupled Plasma Spectroscopy (ICP)

SW846 Method 6010 - Arsenic - Inductively Coupled Plasma Spectroscopy (ICP)
Using Thermo Jarrell Ash ICAP 61E Trace

SW846 Method 6010 - Lead - Inductively Coupled Plasma Spectroscopy (ICP)
Using Thermo Jarrell Ash ICAP 61E Trace

SW846 Method 6010 - Selenium - Inductively Coupled Plasma Spectroscopy (ICP)
Using Thermo Jarrell Ash ICAP 61E Trace

SW846 Method 6010 - Thallium - Inductively Coupled Plasma Spectroscopy (ICP)
Using Thermo Jarrell Ash ICAP 61E Trace

SW846 Method 3050 - Acid Digestion of Sediments, Sludges and Soils
Percent Solids determined and results reported on a dry weight basis.

USEPA Test Methods for Evaluating Solid Wastes (SW846, Third Edition)
Method 8270 -- Gas Chromatography/Mass Spectrometry for Semi-Volatile
Organics: Capillary Column Technique

USEPA Test Methods for Evaluating Solid Wastes (SW846, Third Edition)
Method 8240 -- Gas Chromatography/Mass Spectrometry for Volatile Organics

SW846 Method 3550 - Sonication Extraction of solids for PCB and/or
pesticide analysis.-

USEPA Test Methods for Evaluating Solid Waste (SW846, Third Edition)
Method 3550 -- Sonication Extraction

SW846 Method 9012 - Colorimetric, Automatic UV. Results reported on a dry
weight basis.

Petroleum Hydrocarbons in Soil, Total Recoverable
EPA-600 Methods for Chemical Analysis of Water and Wastes
Method 418.1 (Spectrophotometric, Infrared)

TMA
Thermo Analytical

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300 Second Avenue, P.O. Box 521, Waltham, Massachusetts 02254-0521 (617) 890-7200 1-800-4LAB TEST Fax: (617) 890-3883

TMA
Thermo Analytical

Contact: William Spedding
P.O. # LP23265

5 Day TAT

Chain of Custody Record

1702

300 Second Avenue, P.O. Box 521 • Waltham MA 02254-0521 • (617) 890-7200 Fax: (617) 890-3883 DATE _____ PAGE ___ OF ___

CLIENT: OHM
ADDRESS: 71 Atlantic Ave.
Woburn, MA 01801
(617) 938-7190
Project Name: I-Plex
Sampler (Signature): W Spedding for Jeff Orchard

Sample No.	Date	Time	COMP	GRAB	Location	TCL Volatiles SW-846	TCL Semi-VOA 8270	TCL Pesticides + PCBs	Total TCL Metals	Total Cyanide	TPH IR / 418.1				Iced	Filtered	Preservative	Sample Type	NUMBER OF CONTAINERS	Observations/ Comments
Haverhill Comp	1-17-96	09:45	X				X	X	X	X	X				X			Soil Matrix	1	
Haverhill VCA	1-17-96	09:32		X		X									X			Soil Matrix	5	Lab to composite +
																				Treat as one
																				sample: "Haverhill VCA"
																				Need 5 Day
																				TAT
																				TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE	METHOD OF SHIPMENT
Signature: William Spedding	1-17-96	Signature: John Brassard		Signature: John Brassard		Signature: Rick Lyon	1/18/96	
Printed Name: William Spedding	TIME 14:00	Printed Name: John Brassard	TIME	Printed Name: John Brassard	TIME	Printed Name: Rick Lyon	TIME 2135	
Company: OHM		Company: OHM		Company:		Company: TMA		SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS
RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (Laboratory)	DATE	
Signature		Signature		Signature		Signature		
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	
Company		Company		Company		Thermo Analytical		

02/06/96 13:55 ☎617 890 3883 TMA-Waltham

REVERE SOIL

SCILAB BOSTON, INC.
25 Mathewson Drive
Weymouth, Massachusetts 02189
Telephone (781)337-9334
Fax (781)337-8237
MA-MA069, CT-PH0119, RI-A45, NH-201196-C, NJ-59744, CA-2050
SC-88013, NC-496, TN-02901, ME-MA069, NY-10982

Laboratory Report

----- Prepared for -----

RECON ENVIRONMENTAL CORP.
Field Services Department
25 Mathewson Drive
Weymouth MA 02189-0000
Ken Goddard

Permit No.
Cust. P.O.
Project No. W60337

Report Date 9/19/96
Date Received 9/13/96

Customer No. 7777-0
Work Order No. 9609-00113
Invoice No. LB 11746

Sampled Date 9/12/96
Sampled Time 16:30

Subject: 1 SOIL SAMPLE-KEN G.

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Qualifier	Specification
001 BORROW SAMPLE			Sample Date 9/12/1996					
Target Analyte Metals					TAL	9/16/96		
Aluminum	6010, EPA 1987	3210	mg/Kg	5	TAL	9/16/96		
Antimony	6010, EPA 1987	ND	mg/Kg	0.1	TAL	9/16/96		
Arsenic	6010, EPA 1987	7.4	mg/Kg	0.5	TAL	9/16/96		
Barium	6010, EPA 1987	10	mg/Kg	0.1	TAL	9/16/96		
Beryllium	6010, EPA 1987	0.15	mg/Kg	0.015	TAL	9/16/96		
Cadmium	6010, EPA 1987	ND	mg/Kg	0.2	TAL	9/16/96		
Chromium	6010, EPA 1987	1	mg/Kg	0.4	TAL	9/16/96		
Calcium	6010, EPA 1987	485	mg/Kg	0.3	TAL	9/16/96		
Cobalt	6010, EPA 1987	2	mg/Kg	0.2	CMT	9/16/96		
Iron	6010, EPA 1987	5710	mg/Kg	1.0	TAL	9/16/96		
Copper	6010, EPA 1987	6	mg/Kg	0.3	TAL	9/16/96		
Lead	6010, EPA 1987	ND	mg/Kg	5.0	TAL	9/16/96		
Magnesium	6010, EPA 1987	1150	mg/Kg	0.05	TAL	9/16/96		
Manganese	6010, EPA 1987	62	mg/Kg	0.5	TAL	9/16/96		
Mercury	7470, EPA 1986	ND	mg/Kg	0.01	JPC	9/18/96		
Nickel	6010, EPA 1987	5	mg/Kg	0.8	TAL	9/16/96		
Selenium	6010, EPA 1987	ND	mg/Kg	0.1	TAL	9/16/96		
Potassium	6010, EPA 1987	988	mg/Kg	0.01	TAL	9/16/96		
Silver	6010, EPA 1987	ND	mg/Kg	0.5	TAL	9/16/96		
Thallium, furnace	7841, EPA 1986	ND	mg/Kg	0.6	CMT	9/13/96		
Sodium	6010, EPA 1987	71	mg/Kg	2.0	TAL	9/16/96		
Vanadium	7910, EPA 1986	12	mg/Kg	10	TAL	9/16/96		
Zinc	6010, EPA 1987	18	mg/Kg	0.1	TAL	9/16/96		
B/NA Extractables EPA 8270					EMH	9/13/96		
Acenapthene	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Acenaphthylene	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		

---- Continued on Next Page ----

Laboratory Report

RECON ENVIRONMENTAL CORP. Report Date 9/19/96
Work Order No. 9609-00113

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Qualifier	Specification
001 BORROW SAMPLE			Sample Date 9/12/1996					
Anthracene	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Benzo(a)anthracene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Benzo(b)fluoranthene	EPA 8270	ND	ug/Kg	500	EMH	9/13/96		
Benzo(k)fluoranthene	EPA 8270	ND	ug/Kg	500	EMH	9/13/96		
Benzo(a)pyrene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Benzo (g,h,i) perylene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
bis(2-Chloroethyl)ether	EPA 8270	ND	ug/Kg	300	EMH	9/13/96		
bis (2-Chloroethoxy)	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
bis(2-Ethylhexyl)phthalate	EPA 8270	ND	ug/Kg	400	EMH	9/13/96		
bis(2-Chloroisopropyl)ether	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
4-Bromophenyl Phenyl Ether	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
2-Chloronaphthalene	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
4-Chlorophenyl Phenyl Ether	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Chrysene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Dibenzo(a,h)Anthracene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Di-n-butylphthalate	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
1,3-Dichlorobenzene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
1,2-Dichlorobenzene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
1,4-Dichlorobenzene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Diethyl Phthalate	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Dimethyl Phthalate	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
2,4-Dinitrotoluene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Di-n-octyl phthalate	EPA 8270	ND	ug/Kg	1000	EMH	9/13/96		
Fluoranthene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Fluorene	EPA 8270	ND	ug/Kg	300	EMH	9/13/96		
Hexachlorobenzene	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Hexachlorobutadiene	EPA 8270	ND	ug/Kg	300	EMH	9/13/96		
Hexachloroethane	EPA 8270	ND	ug/Kg	500	EMH	9/13/96		
Indeno (1,2,3-cd)Pyrene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Isophorone	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Naphthalene	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Nitrobenzene	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Phenanthrene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Pyrene	EPA 8270	ND	ug/Kg	300	EMH	9/13/96		
1,2,4-Trichlorobenzene	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
4-Chloro-3-methylphenol	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
2-Chlorophenol	EPA 8270	ND	ug/Kg	500	EMH	9/13/96		
2,4-Dichlorophenol	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
2,4-Dimethylphenol	EPA 8270	ND	ug/Kg	300	EMH	9/13/96		
2,4-Dinitrophenol	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
2-Methyl-4,6-dinitrophenol	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
2-Nitrophenol	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
4-Nitrophenol	EPA 8270	ND	ug/Kg	200	EMH	9/13/96		
Pentachlorophenol	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Phenol	EPA 8270	ND	ug/Kg	700	EMH	9/13/96		
2,4,6-Trichlorophenol	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		

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Laboratory Report

RECON ENVIRONMENTAL CORP. Report Date 9/19/96
Work Order No. 9609-00113

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Qualifier	Specificatio
001 BORROW SAMPLE			Sample Date 9/12/1996					
2,4,5-Trichlorophenol	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
Benzidine	EPA 8270	ND	ug/Kg	600	EMH	9/13/96		
Hexachlorocyclopentadiene	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
N-Nitrosodiphenylamine	EPA 8270	ND	ug/Kg	300	EMH	9/13/96		
Butyl Benzyl Phthalate	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
3,3'-Dichlorbenzidine	EPA 8270	ND	ug/Kg	100	EMH	9/13/96		
N-Nitroso-di-n-propylamine	EPA 8270	ND	ug/Kg	300	EMH	9/13/96		
2-FLUOROPHENOL (SURR)		90	%		EMH	9/13/96		
PHENOL-D5 (SURR)		80	%		EMH	9/13/96		
NITROBENZENE-D5 (SURR)		74	%		EMH	9/13/96		
2-FLUOROBIPHENYL (SURR)		55	%		EMH	9/13/96		
2,4,6-TRIBROMOPHENOL (SURR)		98	%		EMH	9/13/96		
TERPHENYL-D14 (SURR)		114	%		EMH	9/13/96		
Volatile Organics 8240					EMH	9/13/96		
Benzene	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
Bromoform	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
Bromomethane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
Carbon Tetrachloride	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
Chlorobenzene	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
Chloroethane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
2-Chloroethyl vinyl ether	EPA 8240	ND	ug/Kg	200	EMH	9/13/96		
Chloroform	EPA 8240	30	ug/Kg	20	EMH	9/13/96		
Chloromethane	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
Bromodichloromethane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
1,2-Dichlorobenzene	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
1,3-Dichlorobenzene	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
1,4-Dichlorobenzene	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
1,1-Dichloroethane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
1,2-Dichloroethane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
1,1-Dichloroethylene	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
trans-1,2-Dichloroethylene	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
1,2-Dichloropropane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
cis-1,3-Dichloropropene	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
trans-1,3-Dichloropropene	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
Ethylbenzene	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
Methylene Chloride	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
1,1,2,2-Tetrachloroethane	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
Acrylonitrile	EPA 8240	ND	ug/Kg	125	EMH	9/13/96		
Acetone	EPA 8240	ND	ug/Kg	125	EMH	9/13/96		
1,4-Dichloro-2-butane	EPA 8240	ND	ug/Kg	25	EMH	9/13/96		
Tetrachloroethylene	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
Toluene	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
1,1,1-Trichloroethane	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
1,1,2-Trichloroethane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
Trichloroethylene	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
Trichlorofluoromethane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		

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Laboratory Report

RECON ENVIRONMENTAL CORP. Report Date 9/1_ 96
Work Order No. 9609-00113

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Qualifier	Specificatic
001 BORROW SAMPLE			Sample Date 9/12/1996					
Vinyl Chloride	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
Acrolein	EPA 8240	ND	ug/Kg	3100	EMH	9/13/96		
Iodomethane	EPA 8240	ND	ug/Kg	620	EMH	9/13/96		
Total Xylenes	EPA 8240	ND	ug/Kg	100	EMH	9/13/96		
Styrene	EPA 8240	ND	ug/Kg	50	EMH	9/13/96		
4-Methyl-2-Pentanone (MIBK)	EPA 8240	ND	ug/Kg	6200	EMH	9/13/96		
2-Hexanone	EPA 8240	ND	ug/Kg	6200	EMH	9/13/96		
Dibromochloromethane	EPA 8240	ND	ug/Kg	20	EMH	9/13/96		
Methyl-Tert-Butylether	EPA 8240	ND	ug/Kg	620	EMH	9/13/96		
Carbon Disulfide	EPA 8240	ND	ug/Kg	620	EMH	9/13/96		
2-Butanone-(MEK)	EPA 8240	ND	ug/kg	2500	EMH	9/13/96		
DIBROMOFLUOROMETHANE (SURR)		78	%		EMH	9/13/96		
TOLUENE-D8 (SURROGATE)		104	%		EMH	9/13/96		
4-BROMOFLOUROBENZENE (SURR)		95	%		EMH	9/13/96		
TPH by GC	D3328, ASTM	<5.0	MG/KG	5.0	EMH	9/16/96		
Pesticides & PCBs	8080, EPA 1987				AMX	9/13/96		
4,4'-DDD	EPA 8080	ND	ug/Kg	0.055	EMH	9/13/96		
4,4'-DDE	EPA 8080	ND	ug/Kg	0.02	EMH	9/13/96		
4,4'-DDT	EPA 8080	ND	ug/Kg	0.06	EMH	9/13/96		
Aldrin	EPA 8080	ND	ug/Kg	0.02	EMH	9/13/96		
Chlordane	EPA 8080	ND	ug/Kg	0.35	EMH	9/13/96		
Dieldrin	EPA 8080	ND	ug/Kg	0.01	EMH	9/13/96		
Endosulfan I	EPA 8080	ND	ug/Kg	0.07	EMH	9/13/96		
Endosulfan II	EPA 8080	ND	ug/Kg	0.02	EMH	9/13/96		
Endosulfan Sulfate	EPA 8080	ND	ug/Kg	0.33	EMH	9/13/96		
Endrin	EPA 8080	ND	ug/Kg	0.03	EMH	9/13/96		
Endrin Aldehyde	EPA 8080	ND	ug/Kg	0.115	EMH	9/13/96		
Heptachlor	EPA 8080	ND	ug/Kg	0.015	EMH	9/13/96		
Heptachlor Epoxide	EPA 8080	ND	ug/Kg	0.415	EMH	9/13/96		
Methoxychlor	EPA 8080	ND	ug/Kg	0.04	EMH	9/13/96		
PCB-1016	EPA 8080	ND	ug/Kg	100	EMH	9/13/96		
PCB-1221	EPA 8080	ND	ug/Kg	1.25	EMH	9/13/96		
PCB-1232	EPA 8080	ND	ug/Kg	1.25	EMH	9/13/96		
PCB-1242	EPA 8080	ND	ug/Kg	1.25	EMH	9/13/96		
PCB-1248	EPA 8080	ND	ug/Kg	1.25	EMH	9/13/96		
PCB-1254	EPA 8080	ND	ug/Kg	1.25	EMH	9/13/96		
PCB-1260	EPA 8080	ND	ug/Kg	1.25	EMH	9/13/96		
PCB-1268	EPA 8080	ND	ug/Kg	100	EMH	9/13/96		
Toxaphene	EPA 8080	ND	ug/Kg	1.2	EMH	9/13/96		
alpha-BHC	EPA 8080	ND	ug/Kg	0.015	EMH	9/13/96		
beta-BHC	EPA 8080	ND	ug/Kg	0.03	EMH	9/13/96		
delta-BHC	EPA 8080	ND	ug/Kg	0.045	EMH	9/13/96		
gamma-BHC (Lindane)	EPA 8080	ND	ug/Kg	0.02	EMH	9/13/96		
TCMX (SURROGATE)		123	%		EMH	9/13/96		
DCB (SURROGATE)		119	%		EMH	9/13/96		
pH	4500-H-B SM 18TH, 1	6.49	S.U.		JJG	9/16/96		

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Laboratory Report

RECON ENVIRONMENTAL CORP. Report Date 9/19/96
Work Order No. 9609-00113

Test Performed	Method	Results	Units	MDL	Tech	Analy. Date	Qualifier	Specification
001 BORRON SAMPLE			Sample Date 9/12/1996					
Reactivity Cyanide	SW-846, EPA 1983	ND	mg/Kg		JJS	9/16/96		
Reactivity Sulfide	SW846, EPA 1983	ND	mg/Kg		JJS	9/16/96		

To the best of my knowledge this report is true and accurate.

Authorized by:
John J. Sulkowski
Manager, Laboratory Services

TOPSOIL FROM BRADFORD, MA

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81574
Received: 20 MAR 96
Reported: 25 MAR 96

Mr. Peter Neuwmann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81574-1	IT31996	03-19-96/1030

PARAMETER	81574-1
Volatiles by GC/MS (8240)	
Chloromethane, ug/kg dw	<14
Bromomethane, ug/kg dw	<14
Vinyl chloride, ug/kg dw	<14
Chloroethane, ug/kg dw	<14
Methylene chloride (Dichloromethane), ug/kg dw	<6.8
Acetone, ug/kg dw	<6.8
Carbon disulfide, ug/kg dw	<6.8
1,1-Dichloroethene, ug/kg dw	<6.8
1,1-Dichloroethane, ug/kg dw	<6.8
Cis/Trans-1,2-Dichloroethene, ug/kg dw	<6.8
Chloroform, ug/kg dw	<6.8
1,2-Dichloroethane, ug/kg dw	<6.8
2-Butanone (MEK), ug/kg dw	<34
1,1,1-Trichloroethane, ug/kg dw	<6.8
Carbon tetrachloride, ug/kg dw	<6.8
Bromodichloromethane, ug/kg dw	<6.8
1,1,2,2-Tetrachloroethane, ug/kg dw	<6.8
1,2-Dichloropropane, ug/kg dw	<6.8
trans-1,3-Dichloropropene, ug/kg dw	<6.8
Trichloroethene, ug/kg dw	<6.8
Dibromochloromethane, ug/kg dw	<6.8
1,1,2-Trichloroethane, ug/kg dw	<6.8
Benzene, ug/kg dw	<6.8

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81574
Received: 20 MAR 96
Reported: 25 MAR 96

Mr. Peter Neuwmann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81574-1	IT31996	03-19-96/1030

PARAMETER	81574-1
cis-1,3-Dichloropropene, ug/kg dw	<6.8
Bromoform, ug/kg dw	<68
2-Hexanone, ug/kg dw	<34
4-Methyl-2-pentanone (MIBK), ug/kg dw	<34
Tetrachloroethene, ug/kg dw	<6.8
Toluene, ug/kg dw	<6.8
Chlorobenzene, ug/kg dw	<6.8
Ethylbenzene, ug/kg dw	<6.8
Styrene, ug/kg dw	<6.8
Xylenes, ug/kg dw	<6.8
Surrogate - Toluene-d8	100 %
Surrogate - 4-Bromofluorobenzene	87 %
Surrogate - 1,2-Dichloroethane-d4	68 %
Date Analyzed	03.22.96

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81574
Received: 20 MAR 96
Reported: 25 MAR 96

Mr. Peter Neuwmann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81574-1	IT31996	03-19-96/1030

PARAMETER	81574-1
TCL Semivolatiles (8270)	
Phenol, ug/kg dw	<440
bis(2-Chloroethyl)ether, ug/kg dw	<440
2-Chlorophenol, ug/kg dw	<440
1,3-Dichlorobenzene, ug/kg dw	<440
1,4-Dichlorobenzene, ug/kg dw	<440
1,2-Dichlorobenzene, ug/kg dw	<440
2-Methylphenol (o-cresol), ug/kg dw	<440
2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether), ug/kg dw	<440
3-Methylphenol/4-Methylphenol(m&p-cresol), ug/kg dw	<440
N-Nitroso-di-n-propylamine, ug/kg dw	<440
Hexachloroethane, ug/kg dw	<440
Nitrobenzene, ug/kg dw	<440
Isophorone, ug/kg dw	<440
2-Nitrophenol, ug/kg dw	<440
2,4-Dimethylphenol, ug/kg dw	<440
bis(2-Chloroethoxy)methane, ug/kg dw	<440
2,4-Dichlorophenol, ug/kg dw	<440
1,2,4-Trichlorobenzene, ug/kg dw	<440
Naphthalene, ug/kg dw	<440
4-Chloroaniline, ug/kg dw	<890
Hexachlorobutadiene, ug/kg dw	<440
4-Chloro-3-methylphenol, ug/kg dw	<440

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Received: 20 MAR 96
Reported: 25 MAR 96

Mr. Peter Neuwmann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81574-1	IT31996	03-19-96/1030

PARAMETER	81574-1
2-Methylnaphthalene, ug/kg dw	<440
Hexachlorocyclopentadiene, ug/kg dw	<440
2,4,6-Trichlorophenol, ug/kg dw	<440
2,4,5-Trichlorophenol, ug/kg dw	<440
2-Chloronaphthalene, ug/kg dw	<440
2-Nitroaniline, ug/kg dw	<2300
Dimethylphthalate, ug/kg dw	<440
Acenaphthylene, ug/kg dw	<440
3-Nitroaniline, ug/kg dw	<2300
Acenaphthene, ug/kg dw	<440
2,4-Dinitrophenol, ug/kg dw	<2300
4-Nitrophenol, ug/kg dw	<440
Dibenzofuran, ug/kg dw	<440
2,4-Dinitrotoluene, ug/kg dw	<440
2,6-Dinitrotoluene, ug/kg dw	<440
Diethylphthalate, ug/kg dw	<440
4-Chlorophenylphenyl ether, ug/kg dw	<440
Fluorene, ug/kg dw	<440
4-Nitroaniline, ug/kg dw	<2300
4,6-Dinitro-2-methylphenol, ug/kg dw	<2300
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<440
4-Bromophenyl phenyl ether, ug/kg dw	<440
Hexachlorobenzene, ug/kg dw	<440
Pentachlorophenol, ug/kg dw	<2300

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Received: 20 MAR 96
Reported: 25 MAR 96

Mr. Peter Neuwmann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81574-1	IT31996	03-19-96/1030

PARAMETER	81574-1
Phenanthrene, ug/kg dw	<440
Anthracene, ug/kg dw	<440
Di-n-butylphthalate, ug/kg dw	<440
Fluoranthene, ug/kg dw	<440
Pyrene, ug/kg dw	<440
Butylbenzylphthalate, ug/kg dw	<440
3,3'-Dichlorobenzidine, ug/kg dw	<890
Benzo(a)anthracene, ug/kg dw	<440
bis(2-Ethylhexyl)phthalate, ug/kg dw	<440
Chrysene, ug/kg dw	<440
Di-n-octylphthalate, ug/kg dw	<440
Benzo(b)fluoranthene, ug/kg dw	<440
Benzo(k)fluoranthene, ug/kg dw	<440
Benzo(a)pyrene, ug/kg dw	<440
Indeno(1,2,3-cd)pyrene, ug/kg dw	<440
Dibenzo(a,h)anthracene, ug/kg dw	<440
Benzo(g,h,i)perylene, ug/kg dw	<440
Carbazole, ug/kg dw	<440
Surrogate - Phenol d5	71 %
Surrogate - 2-Fluorophenol	69 %
Surrogate - 2,4,6-Tribromophenol	78 %
Surrogate - Nitrobenzene - d5	77 %
Surrogate - 2-Fluorobiphenyl	86 %
Surrogate - Terphenyl - d14	82 %
Date Extracted	03.20.96
Date Analyzed	03.21.96

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LOG NO: S6-81574
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Reported: 25 MAR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81574-1	IT31996	03-19-96/1030

PARAMETER	81574-1		
Aroclor-1232, ug/kg dw	<44		
Aroclor-1242, ug/kg dw	<44		
Aroclor-1248, ug/kg dw	<44		
Aroclor-1254, ug/kg dw	<44		
Aroclor-1260, ug/kg dw	<44		
Surrogate-DBC	91 %		
Surrogate-TCX	71 %		
Date Extracted	03.20.96		
Date Analyzed	03.21.96		

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Golder & Associates
400 Commerical St.
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81574-1	IT31996	03-19-96/1030

PARAMETER	81574-1
TAL Metals	
Aluminum (6010), mg/kg dw	11000
Antimony (6010), mg/kg dw	<6.8
Arsenic (6010), mg/kg dw	5.7
Barium (6010), mg/kg dw	25
Beryllium (6010), mg/kg dw	0.75
Cadmium (6010), mg/kg dw	<0.68
Calcium (6010), mg/kg dw	370
Chromium (6010), mg/kg dw	22
Cobalt (6010), mg/kg dw	3.9
Copper (6010), mg/kg dw	5.3
Iron (6010), mg/kg dw	9500
Lead (6010), mg/kg dw	14
Magnesium (6010), mg/kg dw	1900
Manganese (6010), mg/kg dw	120
Nickel (6010), mg/kg dw	14
Potassium (6010), mg/kg dw	530
Selenium (6010), mg/kg dw	1.5
Silver (6010), mg/kg dw	<1.4
Sodium (6010), mg/kg dw	<68
Thallium (6010), mg/kg dw	<1.4
Vanadium (6010), mg/kg dw	19
Zinc (6010), mg/kg dw	20
Preparation Date	03.21.96
Date Analyzed	03.25.96

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Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81574-1	IT31996	03-19-96/1030

PARAMETER	81574-1
Mercury (7471)	
Mercury (7470/7471), mg/kg dw	0.060
Date Analyzed	03.21.96
Petroleum Hydrocarbons (9073)	
Petroleum Hydrocarbons (9073), mg/kg dw	62
Date Analyzed	03.21.96
Cyanide (9012)	
Cyanide, Total (9012), mg/kg dw	<1.4
Date Analyzed	03.21.96
Percent Solids (160.3), %	74

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Project: 933-6143 ISRT
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
Volatiles by GC/MS (8240)			
Chloromethane, ug/kg dw	<10	---	---
Bromomethane, ug/kg dw	<10	---	---
Vinyl chloride, ug/kg dw	<10	---	---
Chloroethane, ug/kg dw	<10	---	---
Methylene chloride (Dichloromethane), ug/kg dw	<5.0	---	---
Acetone, ug/kg dw	<5.0	---	---
Carbon disulfide, ug/kg dw	<5.0	---	---
1,1-Dichloroethene, ug/kg dw	<5.0	78/94 %	19 %
1,1-Dichloroethane, ug/kg dw	<5.0	---	---
Cis/Trans-1,2-Dichloroethene, ug/kg dw	<5.0	---	---
Chloroform, ug/kg dw	<5.0	---	---
1,2-Dichloroethane, ug/kg dw	<5.0	---	---
2-Butanone (MEK), ug/kg dw	<25	---	---
1,1,1-Trichloroethane, ug/kg dw	<5.0	---	---
Carbon tetrachloride, ug/kg dw	<5.0	---	---
Bromodichloromethane, ug/kg dw	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	---	---
1,2-Dichloropropane, ug/kg dw	<5.0	---	---
trans-1,3-Dichloropropene, ug/kg dw	<5.0	---	---
Trichloroethene, ug/kg dw	<5.0	92/104 %	12 %
Dibromochloromethane, ug/kg dw	<5.0	---	---

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Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID

81574-2 Method Blank
81574-3 Lab Control Standard (LCS) % Recovery/Duplicate
81574-4 LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
1,1,2-Trichloroethane, ug/kg dw	<5.0	---	---
Benzene, ug/kg dw	<5.0	96/104 %	8 %
cis-1,3-Dichloropropene, ug/kg dw	<5.0	---	---
Bromoform, ug/kg dw	<50	---	---
2-Hexanone, ug/kg dw	<25	---	---
4-Methyl-2-pentanone (MIBK), ug/kg dw	<25	---	---
Tetrachloroethane, ug/kg dw	<5.0	---	---
Toluene, ug/kg dw	<5.0	96/108 %	12 %
Chlorobenzene, ug/kg dw	<5.0	98/108 %	10 %
Ethylbenzene, ug/kg dw	<5.0	---	---
Styrene, ug/kg dw	<5.0	---	---
Xylenes, ug/kg dw	<5.0	---	---
Surrogate - Toluene-d8	100 %	100/100 %	---
Surrogate - 4-Bromofluorobenzene	92 %	98/98 %	---
Surrogate - 1,2-Dichloroethane-d4	68 %	66/72 %	---
Date Analyzed	03.22.96	03.22.96	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
TCL Semivolatiles (8270)			
Phenol, ug/kg dw	<330	85/82 %	4 %
bis(2-Chloroethyl)ether, ug/kg dw	<330	---	---
2-Chlorophenol, ug/kg dw	<330	82/82 %	0 %
1,3-Dichlorobenzene, ug/kg dw	<330	---	---
1,4-Dichlorobenzene, ug/kg dw	<330	82/82 %	0 %
1,2-Dichlorobenzene, ug/kg dw	<330	---	---
2-Methylphenol (o-cresol), ug/kg dw	<330	---	---
2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether), ug/kg dw	<330	---	---
3-Methylphenol/4-Methylphenol(m&p-cresol), ug/kg dw	<330	---	---
N-Nitroso-di-n-propylamine, ug/kg dw	<330	62/82 %	0 %
Hexachloroethane, ug/kg dw	<330	---	---
Nitrobenzene, ug/kg dw	<330	---	---
Isophorone, ug/kg dw	<330	---	---
2-Nitrophenol, ug/kg dw	<330	---	---
2,4-Dimethylphenol, ug/kg dw	<330	---	---
bis(2-Chloroethoxy)methane, ug/kg dw	<330	---	---
2,4-Dichlorophenol, ug/kg dw	<330	---	---
1,2,4-Trichlorobenzene, ug/kg dw	<330	88/88 %	0 %
Naphthalene, ug/kg dw	<330	---	---
4-Chloroaniline, ug/kg dw	<660	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
Hexachlorobutadiene, ug/kg dw	<330	---	---
4-Chloro-3-methylphenol, ug/kg dw	<330	91/91 %	0 %
2-Methylnaphthalene, ug/kg dw	<330	---	---
Hexachlorocyclopentadiene, ug/kg dw	<330	---	---
2,4,6-Trichlorophenol, ug/kg dw	<330	---	---
2,4,5-Trichlorophenol, ug/kg dw	<330	---	---
2-Chloronaphthalene, ug/kg dw	<330	---	---
2-Nitroaniline, ug/kg dw	<1700	---	---
Dimethylphthalate, ug/kg dw	<330	---	---
Acenaphthylene, ug/kg dw	<330	---	---
3-Nitroaniline, ug/kg dw	<1700	---	---
Acenaphthene, ug/kg dw	<330	88/88 %	0 %
2,4-Dinitrophenol, ug/kg dw	<1700	---	---
4-Nitrophenol, ug/kg dw	<1700	85/79 %	7 %
Dibenzofuran, ug/kg dw	<330	---	---
2,4-Dinitrotoluene, ug/kg dw	<330	88/82 %	7 %
2,6-Dinitrotoluene, ug/kg dw	<330	---	---
Diethylphthalate, ug/kg dw	<330	---	---
4-Chlorophenylphenyl ether, ug/kg dw	<330	---	---
Fluorene, ug/kg dw	<330	---	---
4-Nitroaniline, ug/kg dw	<1700	---	---
4,6-Dinitro-2-methylphenol, ug/kg dw	<1700	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

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LOG NO: 96-81574
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Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<330	---	---
4-Bromophenyl phenyl ether, ug/kg dw	<330	---	---
Hexachlorobenzene, ug/kg dw	<330	---	---
Pentachlorophenol, ug/kg dw	<1700	67/61 %	9 %
Phenanthrene, ug/kg dw	<330	---	---
Anthracene, ug/kg dw	<330	---	---
Di-n-butylphthalate, ug/kg dw	<330	---	---
Fluoranthene, ug/kg dw	<330	---	---
Pyrene, ug/kg dw	<330	88/94 %	6 %
Butylbenzylphthalate, ug/kg dw	<330	---	---
3,3'-Dichlorobenzidine, ug/kg dw	<660	---	---
Benzo(a)anthracene, ug/kg dw	<330	---	---
bis(2-Ethylhexyl)phthalate, ug/kg dw	<330	---	---
Chrysene, ug/kg dw	<330	---	---
Di-n-octylphthalate, ug/kg dw	<330	---	---
Benzo(b)fluoranthene, ug/kg dw	<330	---	---
Benzo(k)fluoranthene, ug/kg dw	<330	---	---
Benzo(a)pyrene, ug/kg dw	<330	---	---
Indeno(1,2,3-cd)pyrene, ug/kg dw	<330	---	---
Dibenzo(a,h)anthracene, ug/kg dw	<330	---	---
Benzo(g,h,i)perylene, ug/kg dw	<330	---	---
Carbazole, ug/kg dw	<330	---	---

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Mr. Peter Neuwmann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
Surrogate - Phenol d5	88 %	79/79 %	---
Surrogate - 2-Fluorophenol	85 %	79/79 %	---
Surrogate - 2,4,6-Tribromophenol	88 %	91/88 %	---
Surrogate - Nitrobenzene - d5	76 %	70/70 %	---
Surrogate - 2-Fluorobiphenyl	82 %	76/76 %	---
Surrogate - Terphenyl - d14	88 %	82/88 %	---
Date Extracted	03.20.96	03.20.96	---
Date Analyzed	03.21.96	03.21.96	---

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Golder & Associates
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Manchester, NH 03101

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
TCL Pesticides (8080)			
alpha-BHC, ug/kg dw	<1.7	---	---
beta-BHC, ug/kg dw	<1.7	---	---
delta-BHC, ug/kg dw	<1.7	---	---
gamma-BHC, ug/kg dw	<1.7	80/86 %	7 %
Heptachlor, ug/kg dw	<1.7	67/73 %	8 %
Aldrin, ug/kg dw	<1.7	76/84 %	10 %
Heptachlor epoxide, ug/kg dw	<1.7	---	---
Endosulfan I, ug/kg dw	<1.7	---	---
Dieldrin, ug/kg dw	<3.3	76/76 %	0 %
4,4'-DDE, ug/kg dw	<3.3	---	---
Endrin, ug/kg dw	<3.3	82/76 %	8 %
Endrin aldehyde, ug/kg dw	<3.3	---	---
Endosulfan II, ug/kg dw	<3.3	---	---
4,4'-DDD, ug/kg dw	<3.3	---	---
Endosulfan sulfate, ug/kg dw	<3.3	---	---
4,4'-DDT, ug/kg dw	<3.3	94/88 %	6 %
Endrin ketone, ug/kg dw	<3.3	---	---
Methoxychlor, ug/kg dw	<17	---	---
alpha-Chlordane, ug/kg dw	<1.7	---	---
gamma-Chlordane, ug/kg dw	<1.7	---	---
Toxaphene, ug/kg dw	<170	---	---

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Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
Aroclor-1016, ug/kg dw	<33	---	---
Aroclor-1221, ug/kg dw	<67	---	---
Aroclor-1232, ug/kg dw	<33	---	---
Aroclor-1242, ug/kg dw	<33	---	---
Aroclor-1248, ug/kg dw	<33	---	---
Aroclor-1254, ug/kg dw	<33	---	---
Aroclor-1260, ug/kg dw	<33	---	---
Surrogate-DBC	82 %	82/82 %	---
Surrogate-TCX	79 %	61/70 %	---
Date Extracted	03.20.96	---	---
Date Analyzed	03.21.96	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
TAL Metals			
Aluminum (6010), mg/kg dw	<20	96/103 %	7.0 %
Antimony (6010), mg/kg dw	<5.0	112/111 %	0.90 %
Arsenic (6010), mg/kg dw	<1.0	103/101 %	2.0 %
Barium (6010), mg/kg dw	<1.0	99/99 %	0 %
Beryllium (6010), mg/kg dw	<0.50	103/103 %	0 %
Cadmium (6010), mg/kg dw	<0.50	103/103 %	0 %
Calcium (6010), mg/kg dw	<50	95/95 %	0 %
Chromium (6010), mg/kg dw	<1.0	100/101 %	1.0 %
Cobalt (6010), mg/kg dw	<1.0	101/102 %	0.99 %
Copper (6010), mg/kg dw	<2.5	100/100 %	0 %
Iron (6010), mg/kg dw	<5.0	105/113 %	7.3 %
Lead (6010), mg/kg dw	<0.50	102/102 %	0 %
Magnesium (6010), mg/kg dw	<50	96/97 %	1.0 %
Manganese (6010), mg/kg dw	<1.0	101/102 %	0.99 %
Nickel (6010), mg/kg dw	<4.0	105/106 %	0.95 %
Potassium (6010), mg/kg dw	<100	111/112 %	0.90 %
Selenium (6010), mg/kg dw	<1.0	104/100 %	3.9 %
Silver (6010), mg/kg dw	<1.0	103/96 %	7.0 %
Sodium (6010), mg/kg dw	<50	117/117 %	0 %
Thallium (6010), mg/kg dw	<1.0	99/98 %	1.0 %
Vanadium (6010), mg/kg dw	<1.0	99/101 %	2.0 %
Zinc (6010), mg/kg dw	<2.0	107/108 %	0.93 %
Preparation Date	03.21.96	03.21.96	---
Date Analyzed	03.25.96	03.25.96	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81574
Received: 20 MAR 96
Reported: 25 MAR 96

Mr. Peter Neuwmann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81574-2	Method Blank
81574-3	Lab Control Standard (LCS) % Recovery/Duplicate
81574-4	LCS % RPD

PARAMETER	81574-2	81574-3	81574-4
Mercury (7471)			
Mercury (7470/7471), mg/kg dw	<0.010	101/97 %	4.0 %
Date Analyzed	03.21.96	03.21.96	---
Petroleum Hydrocarbons (9073)			
Petroleum Hydrocarbons (9073), mg/kg dw	<10	94/89 %	5.4 %
Date Analyzed	03.21.96	03.21.96	---
Cyanide (9012)			
Cyanide, Total (9012), mg/kg dw	<1.0	99/95 %	4.1 %
Date Analyzed	03.21.96	---	---

Methods: EPA SW-846

Steven J. White

Steven J. White, Project Manager

Final Page Of Report

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LeRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: 96-81730
Received: 28 MAR 96
Reported: 01 APR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81730-1	2T32696	03-27-96/1250

PARAMETER	81730-1
TCL Pesticides (8080)	
alpha-BHC, ug/kg dw	<2.1
beta-BHC, ug/kg dw	<2.1
delta-BHC, ug/kg dw	<2.1
gamma-BHC, ug/kg dw	<2.1
Heptachlor, ug/kg dw	<2.1
Aldrin, ug/kg dw	<2.1
Heptachlor epoxide, ug/kg dw	<2.1
Endosulfan I, ug/kg dw	<2.1
Dieldrin, ug/kg dw	<4.1
4,4'-DDE, ug/kg dw	9.0
Endrin, ug/kg dw	<4.1
Endrin aldehyde, ug/kg dw	<4.1
Endosulfan II, ug/kg dw	<4.1
4,4'-DDD, ug/kg dw	<4.1
Endosulfan sulfate, ug/kg dw	<4.1
4,4'-DDT, ug/kg dw	<4.1
Endrin ketone, ug/kg dw	<4.1
Methoxychlor, ug/kg dw	<21
alpha-Chlordane, ug/kg dw	<2.1
gamma-Chlordane, ug/kg dw	<2.1
Toxaphene, ug/kg dw	<210
Aroclor-1016, ug/kg dw	<41
Aroclor-1221, ug/kg dw	<83

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81730
Received: 28 MAR 96
Reported: 01 APR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81730-1	2T32696	03-27-96/1250

PARAMETER	81730-1
Aroclor-1232, ug/kg dw	<41
Aroclor-1242, ug/kg dw	<41
Aroclor-1248, ug/kg dw	<41
Aroclor-1254, ug/kg dw	<41
Aroclor-1260, ug/kg dw	<41
Surrogate-DBC	95 %
Surrogate-TCX	65 %
Date Extracted	03.28.96
Date Analyzed	03.29.96
Percent Solids (160.3), %	81

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81730
Received: 28 MAR 96
Reported: 01 APR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81730-2	Method Blank
81730-3	Lab Control Standard (LCS) % Recovery/Duplicate
81730-4	LCS % RPD

PARAMETER	81730-2	81730-3	81730-4
TCL Pesticides (8080)			
alpha-BHC, ug/kg dw	<1.7	---	---
beta-BHC, ug/kg dw	<1.7	---	---
delta-BHC, ug/kg dw	<1.7	---	---
gamma-BHC, ug/kg dw	<1.7	66/73 %	10 %
Heptachlor, ug/kg dw	<1.7	63/70 %	10 %
Aldrin, ug/kg dw	<1.7	63/70 %	10 %
Heptachlor epoxide, ug/kg dw	<1.7	---	---
Endosulfan I, ug/kg dw	<1.7	---	---
Dieldrin, ug/kg dw	<3.3	76/76 %	0 %
4,4'-DDE, ug/kg dw	<3.3	---	---
Endrin, ug/kg dw	<3.3	76/32 %	8 %
Endrin aldehyde, ug/kg dw	<3.3	---	---
Endosulfan II, ug/kg dw	<3.3	---	---
4,4'-DDD, ug/kg dw	<3.3	---	---
Endosulfan sulfate, ug/kg dw	<3.3	---	---
4,4'-DDT, ug/kg dw	<3.3	82/88 %	7 %
Endrin ketone, ug/kg dw	<3.3	---	---
Methoxychlor, ug/kg dw	<17	---	---
alpha-Chlordane, ug/kg dw	<1.7	---	---
gamma-Chlordane, ug/kg dw	<1.7	---	---
Toxaphene, ug/kg dw	<170	---	---

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: 96-81730
Received: 28 MAR 96
Reported: 01 APR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81730-2	Method Blank
81730-3	Lab Control Standard (LCS) % Recovery/Duplicate
81730-4	LCS % RPD

PARAMETER	81730-2	81730-3	81730-4
Aroclor-1016, ug/kg dw	<33	---	---
Aroclor-1221, ug/kg dw	<67	---	---
Aroclor-1232, ug/kg dw	<33	---	---
Aroclor-1242, ug/kg dw	<33	---	---
Aroclor-1248, ug/kg dw	<33	---	---
Aroclor-1254, ug/kg dw	<33	---	---
Aroclor-1260, ug/kg dw	<33	---	---
Surrogate-DBC	94 %	94/100 %	---
Surrogate-TCX	73 %	37/67 %	---
Date Extracted	03.28.96	03.28.96	---
Date Analyzed	03.29.96	03.29.96	---

Methods: EPA SW-846

Steven J. White

Steven J. White, Project Manager

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SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81730A
Received: 28 MAR 96
Reported: 03 APR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81730A-1	2T32696	03-27-96/1250

PARAMETER	81730A-1
TCL Pesticides (8080)	
alpha-BHC, ug/kg dw	<2.2
beta-BHC, ug/kg dw	<2.2
delta-BHC, ug/kg dw	<2.2
gamma-BHC, ug/kg dw	<2.2
Heptachlor, ug/kg dw	<2.2
Aldrin, ug/kg dw	<2.2
Heptachlor epoxide, ug/kg dw	<2.2
Endosulfan I, ug/kg dw	<2.2
Dieldrin, ug/kg dw	<4.3
4,4'-DDE, ug/kg dw	14
Endrin, ug/kg dw	<4.3
Endrin aldehyde, ug/kg dw	<4.3
Endosulfan II, ug/kg dw	<4.3
4,4'-DDD, ug/kg dw	<4.3
Endosulfan sulfate, ug/kg dw	<4.3
4,4'-DDT, ug/kg dw	6.5
Endrin ketone, ug/kg dw	<4.3
Methoxychlor, ug/kg dw	<22
alpha-Chlordane, ug/kg dw	<2.2
gamma-Chlordane, ug/kg dw	<2.2
Toxaphene, ug/kg dw	<220
Aroclor-1016, ug/kg dw	<43
Aroclor-1221, ug/kg dw	<87

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81730A
Received: 28 MAR 96
Reported: 03 APR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
81730A-1	2T32696	03-27-96/1250

PARAMETER	81730A-1
Aroclor-1232, ug/kg dw	<43
Aroclor-1242, ug/kg dw	<43
Aroclor-1248, ug/kg dw	<43
Aroclor-1254, ug/kg dw	<43
Aroclor-1260, ug/kg dw	<43
Surrogate-DBC	127 %
Surrogate-TCX	116 %
Date Extracted	04.01.96
Date Analyzed	04.02.96
Percent Solids (160.3), %	77

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81730A
Received: 28 MAR 96
Reported: 03 APR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81730A-2	Method Blank
81730A-3	Lab Control Standard (LCS) % Recovery/Duplicate
81730A-4	LCS % RPD

PARAMETER	81730A-2	81730A-3	81730A-4
TCL Pesticides (8080)			
alpha-BHC, ug/kg dw	<1.7	---	---
beta-BHC, ug/kg dw	<1.7	---	---
delta-BHC, ug/kg dw	<1.7	---	---
gamma-BHC, ug/kg dw	<1.7	79/80 %	2 %
Heptachlor, ug/kg dw	<1.7	72/75 %	4 %
Aldrin, ug/kg dw	<1.7	78/78 %	0 %
Heptachlor epoxide, ug/kg dw	<1.7	---	---
Endosulfan I, ug/kg dw	<1.7	---	---
Dieldrin, ug/kg dw	<3.3	94/94 %	0 %
4,4'-DDE, ug/kg dw	<3.3	---	---
Endrin, ug/kg dw	<3.3	94/94 %	0 %
Endrin aldehyde, ug/kg dw	<3.3	---	---
Endosulfan II, ug/kg dw	<3.3	---	---
4,4'-DDD, ug/kg dw	<3.3	---	---
Endosulfan sulfate, ug/kg dw	<3.3	---	---
4,4'-DDT, ug/kg dw	<3.3	100/100 %	0 %
Endrin ketone, ug/kg dw	<3.3	---	---
Methoxychlor, ug/kg dw	<17	---	---
alpha-Chlordane, ug/kg dw	<1.7	---	---
gamma-Chlordane, ug/kg dw	<1.7	---	---
Toxaphene, ug/kg dw	<170	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S6-81730A
Received: 28 MAR 96
Reported: 03 APR 96

Mr. Peter Neumann
Golder & Associates
400 Commerical St.
Manchester, NH 03101

Project: 933-6143 ISRT
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
81730A-2	Method Blank
81730A-3	Lab Control Standard (LCS) % Recovery/Duplicate
81730A-4	LCS % RPD

PARAMETER	81730A-2	81730A-3	81730A-4
Aroclor-1016, ug/kg dw	<33	---	---
Aroclor-1221, ug/kg dw	<67	---	---
Aroclor-1232, ug/kg dw	<33	---	---
Aroclor-1242, ug/kg dw	<33	---	---
Aroclor-1248, ug/kg dw	<33	---	---
Aroclor-1254, ug/kg dw	<33	---	---
Aroclor-1260, ug/kg dw	<33	---	---
Surrogate-DBC	106 %	100/118 %	---
Surrogate-TCX	51 %	49/72 %	---
Date Extracted	04.01.96	04.01.96	---
Date Analyzed	04.02.96	04.02.96	---

Methods: EPA SW-846

Steven J. White
Steven J. White, Project Manager

Final Page Of Report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-2211

PEN

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL	# of pages ▶ 2
To SAM TAYLOR	From JOE LeMAY
Dept./Agency GLS	Phone # 573-9622
Fax # 932-9589	Fax # EPA

N&N 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION

April 15, 1996

Samuel W. Taylor
Construction Manager
ISRT
41 Atlantic Avenue
Woburn, MA 01801

Re: EPA response to ISRT's April 2, 1996 letter

Dear Mr. Taylor:

The Environmental Protection Agency (EPA), in consultation with the Massachusetts Department of Environmental Protection (MADEP), has reviewed your April 2, 1996 letter requesting approval to place the Bradford topsoil on upland portions of the Industri-plex site. At the EPA's request, the topsoil was sampled three times and found to contain DDE at 6.1 ppb, 9.0 ppb and 14 ppb, respectively. In addition, one of the three samples contained DDT at a concentration of 6.6 ppb. These concentrations, while low for topsoil in upland areas, do not comply with the "clean soil guideline" established for the soil to be used on-site. This guideline suggests that all analytical results for pesticides should be non-detectable. Although the topsoil does not comply with the "clean soil guideline", ISRT considers the soil acceptable for upland areas due to the topsoil passing all other specification requirements, including gradation and organic content, and the DDE and DDT concentrations being well below the MADEP residential soil requirements of 2,000 ppb for each pesticide.

EPA has also discussed the Bradford topsoil's low pesticide levels with the US Fish and Wildlife Service. The Agency has concluded that the Bradford topsoil may be used in only upland areas of the Industri-plex Site. This use applies only to the Bradford topsoil source. If wetland topsoil is needed for wetland areas, then other sources for wetland areas should be evaluated. In addition, the specification requirements related to the frequency of topsoil sampling (one every 2000 cubic yards) as the source enters the site applies to the Bradford topsoil.

PRINTED ON RECYCLED PAPER

If you should have any questions regarding this correspondence, please contact me at (617) 573-9622.

Sincerely,

Joseph F. LeMay

Joseph F. LeMay, RPM
MA Superfund Section

cc: Dan Coughlin, EPA
Dan Winograd, EPA
Anna Mayor, MADEP
Steve Mierzykowski, USF&W
Gordon Bullard, HNUS
Mike Light, ISRT

TOPSOIL FROM MANCHESTER, NEW HAMPSHIRE

 TOXIKON CORP. REPORT Work Order # 95-04-286

Received: 04/19/95 04/24/95 17:12:40

REPORT TO: RUST REMEDIAL SERVICES
41 ATLANTIC AVE
WOBURN, MA 01801
(617)938-7190 FAX:7194
ATTEN KELLY FAGAN

PREPARED BY: TOXIKON CORPORATION
225 WILDWOOD AVE
WOBURN, MA 01801
ATTEN PAUL LEZBERG
PHONE (617)933-6903

CERTIFIED BY

CONTACT MARKETING

CLIENT RUST WOB SAMPLES 2
COMPANY RUST REMEDIAL SERVICES
FACILITY 41 ATLANTIC AVE
WOBURN, MA 01801

MA CERT # M-MA064: TRACE METALS, SULFATE, CYANIDE, RES. FREE CHLORINE, Ca, TOTAL ALK., TDS, pH, THMs, VOC, PEST., NUTRIENTS, DEMAND, O&G, PHENOLICS, PCBs, CT DHS #PH-0563, NY #10778 FL HRS E87143, NJ DEP 59538, NC DNR286, SC 88002, NH 204091-C.

WORK ID I-PLEX
TAKEN 4/18/95 AT 10:15AM
TRANS
TYPE SOIL
P.O. # 412870
INVOICE under separate cover

Verified By:
MA CERT# M-MA064:

SAMPLE IDENTIFICATION

01 MANCHESTER
02 MANCHESTER VOA

TEST CODES and NAMES used on this workorder

8240	PURGEABLE ORGANICS VOA	SE	SELENIUM
8270	A/BN EXTRACTABLES	TL	THALLIUM
AG	SILVER	TPH IR	TPH BY IR
AL	ALUMINUM	V	VANADIUM
AS	ARSENIC	ZN	ZINC
BA	BARIUM		
BE	BERYLLIUM		
CA	CALCIUM		
CD	CADMIUM		
CN TOT	CYANIDE TOTAL		
CO	COBALT		
CR	CHROMIUM		
CU	COPPER		
FE	IRON		
HG	MERCURY		
K	POTASSIUM		
MEXTSG	METALS TOTAL EXT SOIL-GFAA		
MEX HG	METALS, EXT. FOR MERCURY		
MEX TS	METALS, TOTAL EXT., SOIL		
MG	MAGNESIUM		
MN	MANGANESE		
NA	SODIUM		
NI	NICKEL		
PB	LEAD		
PPCBS	PESTICIDES/PCB (SOIL)		
SB	ANTIMONY		

 TOXIKON CORP. REPORT Work Order # 95-04-286

Received: 04/19/95 Results by Sample

SAMPLE ID MANCHESTER SAMPLE # 01 FRACTIONS: A,B

Date & Time Collected 04/18/95 10:15:00 Category SOIL

AG ND	AL 8340	AS 1.55	BA 18.2	BE 0.278	CA 364
mg/Kg DL=0.361	mg/Kg DL=103.2	mg/Kg DL=0.267	mg/Kg DL=0.516	mg/Kg DL=0.206	mg/Kg DL=5.16
CD 3.33	CN_TOT ND	CO 1.69	CR 5.28	CU 4.26	FE 7280
mg/Kg DL=0.516	mg/Kg DL=0.7	mg/Kg DL=0.516	mg/Kg DL=0.516	mg/Kg DL=0.516	mg/Kg DL=10.32
HG ND	K 329	MG 661	MN 91.1	NA 71.9	NI 3.86
mg/Kg DL=0.244	mg/Kg DL=25.80	mg/Kg DL=2.580	mg/Kg DL=0.516	mg/Kg DL=25.80	mg/Kg DL=1.032
PB 11.4	SB ND	SE ND	TL ND	TPH_IR ND	V 9.58
mg/Kg DL=1.070	mg/Kg DL=7.740	mg/Kg DL=0.267	mg/Kg DL=0.267	mg/Kg DL=40.0	mg/Kg DL=0.516
ZN 17.5					
mg/Kg DL=0.516					

 TOXIKON CORP. REPORT Work Order # 95-04-286

Received: 04/19/95 Results by Sample

SAMPLE ID MANCHESTER FRACTION 01A TEST CODE 8270 NAME A/BN EXTRACTABLES

Date & Time Collected 04/18/95 10:15:00 Category SOIL

BASE NEUTRAL EXTRACTABLES	RESULT	LIMIT		RESULT	LIMIT
bis(-2-Chloroethyl) ether	ND	390	Chrysene	ND	390
1,3-Dichlorobenzene	ND	390	Di-n-octyl phthalate	ND	390
1,4-Dichlorobenzene	ND	390	Benzo(b)fluoranthene	ND	390
1,2-Dichlorobenzene	ND	390	Benzo(k)fluoranthene	ND	390
bis(2-Chloroisopropyl) ether	ND	390	Benzo(a)pyrene	ND	390
N-Nitroso-Di-N-Propylamine	ND	390	Indeno(1,2,3-cd)pyrene	ND	390
Hexachloroethane	ND	390	Dibenz(a,h)anthracene	ND	390
Nitrobenzene	ND	390	Benzo(g,h,i)perylene	ND	390
Isophorone	ND	390	2-Methylnaphthalene	ND	390
bis(2-Chloroethoxy) methane	ND	390	Benzidine	ND	390
1;2,4-Trichlorobenzene	ND	390	Dibenzofuran	ND	390
Naphthalene	ND	390			
Hexachlorobutadiene	ND	390	ACID EXTRACTABLES		
Hexachlorocyclopentadiene	ND	390	Phenol	ND	390
2-Chloronaphthalene	ND	390	2-Chlorophenol	ND	390
Dimethyl phthalate	ND	390	Benzyl Alcohol	ND	770
Acenaphthylene	ND	390	2-Methylphenol	ND	390
Acenaphthene	ND	390	4-Methylphenol	ND	390
2,4-Dinitrotoluene	ND	390	2-Nitrophenol	ND	390
2,6-Dinitrotoluene	ND	390	2,4-Dimethylphenol	ND	390
Diethylphthalate	ND	390	Benzoic Acid	ND	1900
4-Chlorophenyl phenyl ether	ND	390	2,4-Dichlorophenol	ND	390
Fluorene	ND	390	4-Chloroaniline	ND	770
N-Nitrosodiphenylamine	ND	390	4-Chloro-3-methylphenol	ND	770
4-Bromophenyl phenyl ether	ND	390	2,4,6-Trichlorophenol	ND	390
Hexachlorobenzene	ND	390	2,4,5-Trichlorophenol	ND	390
✓ Phenanthrene	390	390	2-Nitroaniline	ND	1900
Anthracene	ND	390	3-Nitroaniline	ND	1900
Di-n-butylphthalate	ND	390	2,4-Dinitrophenol	ND	1900
✓ Fluoranthene	486	390	4-Nitrophenol	ND	1900
✓ Pyrene	413	390	4-Nitroaniline	ND	1900
Butyl benzyl phthalate	ND	390	4,6-Dinitro-2-methylphenol	ND	1900
3,3'-Dichlorobenzidine	ND	770	Pentachlorophenol	ND	1900
Benzo (a) anthracene	ND	770	3-Methylphenol	ND	1900
bis (2-ethylhexyl)phthalate	ND	390	2,6- Dichlorophenol	ND	1900

Notes and Definitions for this Report:

UNITS: ug/Kg
EXTRACTED: 04/20/95
DATE RUN: 04/21/95
ANALYST: PAC
INSTRUMENT: HP-5V1
DIL. FACTOR: 1
ND = not detected at detection limit

Received: 04/19/95 Results by Sample

SAMPLE ID MANCHESTER FRACTION 01A TEST CODE PPCBS NAME PESTICIDES/PCB (SOIL)

Date & Time Collected 04/18/95 10:15:00 Category SOIL

PESTICIDES

	RESULT	LIMIT
Alpha-BHC	ND	0.010
Gamma-BHC (Lindane)	ND	0.010
Beta-BHC	ND	0.010
Heptachlor	ND	0.010
Delta-BHC	ND	0.010
Aldrin	ND	0.010
Heptachlor Epoxide	ND	0.010
Endosulfan I	ND	0.010
4,4'-DDE	ND	0.010
Dieldrin	ND	0.010
Endrin	ND	0.010
4,4'-DDD	ND	0.010
Endosulfan II	ND	0.010
4,4'-DDT	ND	0.010
Endrin Aldehyde	ND	0.010
Endosulfan Sulfate	ND	0.010
Chlordane	ND	0.010
Toxaphene	ND	0.010
Methoxychlor	ND	0.10

PCB

	RESULT	LIMIT
Aroclor 1016	ND	0.10
Aroclor 1221	ND	0.10
Aroclor 1232	ND	0.10
Aroclor 1242	ND	0.10
Aroclor 1248	ND	0.10
Aroclor 1254	ND	0.10
Aroclor 1260	ND	0.10
Aroclor 1262	ND	0.10
Aroclor 1268	ND	0.10

Notes and Definitions for this Report:

EXTRACTED: 04/20/95
UNITS: mg/Kg
DATE RUN: 04/24/95
ANALYST: ST
INSTRUMENT: HP 2
DIL. FACTOR: 1

ND = not detected at detection limit

 TOXICON CORP. REPORT Work Order # 95-04-286

Received: 04/19/95 Results by Sample

SAMPLE ID MANCHESTER VOA FRACTION 02A TEST CODE 8240 NAME PURGEABLE ORGANICS VOA

Date & Time Collected 04/18/95 10:15:00 Category SOIL

PURGEABLE ORGANICS VOA

	RESULT	LIMIT		RESULT	LIMIT
Acrolein	ND	100	trans-1,3-Dichloropropene	ND	2.0
Acrylonitrile	ND	10	Trichloroethene	ND	2.0
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
Trichlorofluoromethane	ND	2.0	Tetrachloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	Toluene	2.4	2.0
Chloroform	ND	2.0	Chlorobenzene	ND	2.0
1,2-Dichloroethane	ND	2.0	Ethyl Benzene	ND	2.0
2-Butanone	ND	10	Styrene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.0
Carbon Tetrachloride	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Vinyl Acetate	ND	2.0	1,3-Dichlorobenzene	ND	2.0
Bromodichloromethane	ND	2.0	1,4-Dichlorobenzene	ND	2.0
1,2-Dichloropropane	ND	2.0			

Notes and Definitions for this Report:

DATE RUN: 04/19/95
ANALYST: CMD
INSTRUMENT: HP-V1
DIL. FACTOR: 1
COMMENTS:
UNITS: ug/Kg

ND = not detected at detection limit

TEST CODE 8240 NAME PURGEABLE ORGANICS VOA

EPA METHOD: 8240: Gas Chromatography/Mass Spectrometry for Volatile Organics.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods.
EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

This method has been modified by the use of a capillary column.

TEST CODE 8270 NAME A/BN EXTRACTABLES

EPA METHOD: 8270: Gas Chromatography / Mass Spectrometry for Semivolatile Organics: Capillary Column Technique.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods.
EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

TEST CODE CN TOT NAME CYANIDE TOTAL

EPA METHOD: 335.3 for water sample

Reference: Methods for Chemical Analysis of Water and Wastes.
EPA 600/4-79-020 (Revised, March 1983). EPA/EMSL.

EPA METHOD: 9010 for soil sample

Reference: Methods for Evaluating Solid Waste: Physical/Chemical Methods.
EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

TEST CODE MEXTSG NAME METALS TOTAL EXT SOIL-GFAA

REFERENCE:

EPA METHOD 3050. Acid Digestion of Sediments, Sludges, and Soils.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846,3rd Edition.

Analytical Methods for Graphite Furnace: Arsenic 7060
Lead 7421
Selenium 7740
Thallium 7841

TEST CODE MEX HG NAME METALS, EXT. FOR MERCURY

REFERENCE:

EPA METHOD 245.1 Mercury. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020.

EPA METHOD 7470.Mercury in Liquid Waste.
or
EPA METHOD 7471.Mercury in Solid or Semisolid Waste.
Test Methods for Evaluating Solid Waste:Physical/Chemical Methods.
EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA>

Test Methodology

TEST CODE MEX TS NAME METALS, TOTAL EXT., SOIL

REFERENCE:

EPA METHOD 3050: Acid Digestion of Sediments, Sludges and Soils. Test Methods for Evaluating Solid Waste Physical/Chemical Methods. SW 846, 3rd Edition.

Analytical Method for ICP:6010A

TEST CODE PPCBS NAME PESTICIDES/PCB (SOIL)

EPA Method: 8080

Reference: Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

TEST CODE TPH IR NAME TPH BY IR

EPA METHOD: 418.1 for water sample.

Reference: Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020 (Revised, March 1983). EPA/EMSL, Cincinnati, OH.

EPA METHOD: 9071/9073

Reference: Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-2211

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

To DAVE BAUMGARTNER	From Joe LeMay
Dept./Agency ISRT	Phone #
Fax # (617) 932-9589	Fax #

# of pages ▶ 2

NSN 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION

June 19, 1995

Mr. D. M. Light
ISRT
41 Atlantic Avenue
Woburn, MA 01801

RE: Industri-Plex Superfund Site: ISRT's June 1, 1995, letter, requesting permission to use the Manchester NH topsoil source in on-site upland areas

Dear Mr. Light:

This letter is in response to your June 1, 1995, letter, requesting permission to use the Manchester NH topsoil source for upland flat (flatter than 3H:1V) areas on-site. The Manchester source has a sand content of 85%, organic content of 7.4%, and pH of 4.8. The 100% Design Specification established a sand content limit of less than or equal to 80%, organic content limit of greater than 2.75%, and a pH range between 5.8 and 7.6 for upland topsoil. The Manchester NH source fails to meet the sand content and pH requirements. During our June 1, 1995, Construction Progress Meeting, the Environmental Protection Agency (EPA) requested your contractor, Normandeau Associates, Inc. (Normandeau) to review the existing Manchester NH topsoil data and assess its suitability for the site. Normandeau responded to the EPA's request on June 8, 1995, via memorandum.

EPA has reviewed your June 1, 1995, letter, and Normandeau's June 8, 1995, memorandum, and has the following response: Based upon Normandeau's memorandum and recommendations, EPA will allow ISRT to use the Manchester NH topsoil source in upland, flat topsoil areas. Specifically, Normandeau recommended that the source be used in "upland restoration areas provided certain management practices and/or adjustments are made. Management could involve the selection of plant species adapted to low nutrient and available water conditions during the dry summer months. Blending could involve the mixing of fines, such as silty loam or loam soil, with the loamy fine sand prior to placement on the site. Prior to planting the soils should be limed with a magnesium limestone at a rate recommended by the Agricultural Analytical Services Laboratory for the plant material provided."

Based upon this recommendation, EPA requires that ISRT's contractor, Normandeau, select the fine material to be "blended" with the Manchester source, and monitor the blending and liming process. In accordance with 100% Design Specification Section 02243, the blended topsoil source should be sampled at a frequency of every 2,000 cubic yards for sand content, organic content and pH. In addition, it is recommended that Normandeau reevaluate the vegetation mix for upland areas where Manchester NH topsoil will be placed. This reevaluation should include a

PRINTED ON RECYCLED PAPER

visit to the Manchester NH source to determine if any of its natural vegetation is applicable for use at the site.

In conclusion, EPA will permit the Manchester NH source to be used as on-site upland topsoil, based upon ISRT's soil scientist opinion that the blended topsoil will support the upland vegetation. If the blended Manchester topsoil does not adequately support upland vegetation, then ISRT will be responsible for amending/replacing the topsoil so adequate upland vegetation is established. EPA's permission is granted only for the Manchester NH source. EPA requires ISRT to continue its search for upland and wetland topsoil that complies with the 100% Design Specifications.

If there are any questions regarding this letter, please contact me at (617) 573-9622.

Sincerely,

Joseph F. LeMay

Joseph F. LeMay, RPM
MA Superfund Site

cc: Paula Fitzsimmons, Chief
Anna Mayor, MADEP
Steve Mierzykowski, USF&W
Gordon Bullard, HNUS
Ken Finklestein, NOAA
Dave Baumgartner, ISRT

 TOXIKON CORP. REPORT Work Order # 95-04-464

Received: 04/28/95 05/02/95 14:04:56

REPORT RUST REMEDIAL SERVICES
TO 41 ATLANTIC AVE
WOBURN, MA 01801
(617)938-7190 FAX:7194
ATTEN LAWRENCE COLBURN

PREPARED TOXIKON CORPORATION
BY 225 WILDWOOD AVE
WOBURN, MA 01801
ATTEN PAUL LEZBERG
PHONE (617)933-6903

CERTIFIED BY

CONTACT MARKETING

CLIENT RUST WOB SAMPLES 6
COMPANY RUST REMEDIAL SERVICES
FACILITY 41 ATLANTIC AVE
WOBURN, MA 01801

MA CERT # M-MA064: TRACE METALS, SULFATE,CYANIDE,RES. FREE CHLORINE, Ca, TOTAL ALK., TDS, pH, THMs, VOC, PEST.,NUTRIENTS. DEMAND. O&G, PHENOLICS, PCBs . CT DHS #PH-0563, NY #10778 FL HRS E87143, NJ DEP 59538, NC DNR286, SC 88002, NH 204091-C.

WORK ID I-PLEX
TAKEN 4/28/95
TRANS
TYPE WATER AND SOIL
P.O. # 412888
INVOICE under separate cover

Verified By:
MA CERT# M-MA064:

SAMPLE IDENTIFICATION

01 MANCHESTER VOA
02 NEW BOSTON VOA
03 PEPPERELL VOA
04 MANCHESTER FB
05 NEW BOSTON FB
06 PEPPERELL FB

TEST CODES and NAMES used on this workorder

624 PURGEABLE ORGANICS VOA
8240 PURGEABLE ORGANICS VOA

 TOXIKON CORP. REPORT Work Order # 95-04-464

Received: 04/28/95 Results by Sample

SAMPLE ID MANCHESTER VOA FRACTION 01A TEST CODE 8240 NAME PURGEABLE ORGANICS VOA

Date & Time Collected 04/28/95 09:45:00 Category SOIL

PURGEABLE ORGANICS VOA

	RESULT	LIMIT		RESULT	LIMIT
Acrolein	ND	100	trans-1,3-Dichloropropene	ND	2.0
Acrylonitrile	ND	10	Trichloroethene	ND	2.0
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
Trichlorofluoromethane	ND	2.0	Tetrachloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	Toluene	ND	2.0
Chloroform	ND	2.0	Chlorobenzene	ND	2.0
1,2-Dichloroethane	ND	2.0	Ethyl Benzene	ND	2.0
2-Butanone	ND	10	Styrene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.0
Carbon Tetrachloride	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Vinyl Acetate	ND	2.0	1,3-Dichlorobenzene	ND	2.0
Bromodichloromethane	ND	2.0	1,4-Dichlorobenzene	ND	2.0
1,2-Dichloropropane	ND	2.0			

Notes and Definitions for this Report:

DATE RUN: 05/02/95
ANALYST: CMD
INSTRUMENT: HP-V1
DIL. FACTOR: 1
COMMENTS:
UNITS: ug/Kg

ND = not detected at detection limit

Received: 04/28/95 Results by Sample

SAMPLE ID NEW BOSTON VOA FRACTION 02A TEST CODE 8240 NAME PURGEABLE ORGANICS VOA
Date & Time Collected 04/28/95 11:00:00 Category SOIL

PURGEABLE ORGANICS VOA

	RESULT	LIMIT		RESULT	LIMIT
Acrolein	ND	100	trans-1,3-Dichloropropene	ND	2.0
Acrylonitrile	ND	10	Trichloroethene	ND	2.0
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
Trichlorofluoromethane	ND	2.0	Tetrachloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	Toluene	ND	2.0
Chloroform	ND	2.0	Chlorobenzene	ND	2.0
1,2-Dichloroethane	ND	2.0	Ethyl Benzene	ND	2.0
2-Butanone	ND	10	Styrene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.0
Carbon Tetrachloride	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Vinyl Acetate	ND	2.0	1,3-Dichlorobenzene	ND	2.0
Bromodichloromethane	ND	2.0	1,4-Dichlorobenzene	ND	2.0
1,2-Dichloropropane	ND	2.0			

Notes and Definitions for this Report:

DATE RUN: 05/01/95
ANALYST: LAJ
INSTRUMENT: HP-V1
DIL. FACTOR: 1
COMMENTS:
UNITS: ug/Kg

ND = not detected at detection limit

Received: 04/28/95 Results by Sample

SAMPLE ID PEPPERELL VOA FRACTION 03A TEST CODE 8240 NAME PURGEABLE ORGANICS VOA
Date & Time Collected 04/28/95 13:30:00 Category SOIL

PURGEABLE ORGANICS VOA

	RESULT	LIMIT		RESULT	LIMIT
Acrolein	ND	100	trans-1,3-Dichloropropene	ND	2.0
Acrylonitrile	ND	10	Trichloroethene	ND	2.0
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
Trichlorofluoromethane	ND	2.0	Tetrachloroethene	ND	2.0
1,1-Dichloroethane	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	Toluene	ND	2.0
Chloroform	ND	2.0	Chlorobenzene	ND	2.0
1,2-Dichloroethane	ND	2.0	Ethyl Benzene	ND	2.0
2-Butanone	ND	10	Styrene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Total Xylenes	ND	2.0
Carbon Tetrachloride	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Vinyl Acetate	ND	2.0	1,3-Dichlorobenzene	ND	2.0
Bromodichloromethane	ND	2.0	1,4-Dichlorobenzene	ND	2.0
1,2-Dichloropropane	ND	2.0			

Notes and Definitions for this Report:

DATE RUN: 05/01/95
ANALYST: LAJ
INSTRUMENT: HP-V1
DIL. FACTOR: 1
COMMENTS:
UNITS: ug/Kg

ND = not detected at detection limit

Received: 04/28/95 Results by Sample

SAMPLE ID MANCHESTER FB FRACTION 04A TEST CODE 624 NAME PURGEABLE ORGANICS VOA
Date & Time Collected 04/28/95 09:45:00 Category WATER

PURGEABLE ORGANICS VOA

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
1,1-Dichloroethane	ND	2.0	Tetrachloroethene	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Chloroform	ND	2.0	Toluene	ND	2.0
1,2-Dichloroethane	ND	2.0	Chlorobenzene	ND	2.0
2-Butanone	ND	10	Ethyl Benzene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Styrene	ND	2.0
Carbon Tetrachloride	ND	2.0	Total Xylenes	ND	2.0
Vinyl Acetate	ND	2.0	Trichlorofluoromethane	ND	2.0
Bromodichloromethane	ND	2.0	1,2-Dichlorobenzene	ND	2.0
1,2-Dichloropropane	ND	2.0	1,3-Dichlorobenzene	ND	2.0
trans-1,3-Dichloropropene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Trichloroethene	ND	2.0	Dichlorodifluoromethane	ND	2.0
			Acrolein	ND	50
			Acrylonitrile	ND	10

Notes and Definitions for this Report:

DATE RUN 05/02/95
ANALYST LAJ
INSTRUMENT HP-V3
DIL. FACTOR 1
UNITS = ug/L

ND = not detected at detection limit

Received: 04/28/95 Results by Sample

SAMPLE ID NEW BOSTON FB FRACTION 05A TEST CODE 624 NAME PURGEABLE ORGANICS VOA
Date & Time Collected 04/28/95 11:00:00 Category WATER

PURGEABLE ORGANICS VOA

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
1,1-Dichloroethane	ND	2.0	Tetrachloroethene	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Chloroform	ND	2.0	Toluene	ND	2.0
1,2-Dichloroethane	ND	2.0	Chlorobenzene	ND	2.0
2-Butanone	ND	10	Ethyl Benzene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Styrene	ND	2.0
Carbon Tetrachloride	ND	2.0	Total Xylenes	ND	2.0
Vinyl Acetate	ND	2.0	Trichlorofluoromethane	ND	2.0
Bromodichloromethane	ND	2.0	1,2-Dichlorobenzene	ND	2.0
1,2-Dichloropropane	ND	2.0	1,3-Dichlorobenzene	ND	2.0
trans-1,3-Dichloropropene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Trichloroethene	ND	2.0	Dichlorodifluoromethane	ND	2.0
			Acrolein	ND	50
			Acrylonitrile	ND	10

Notes and Definitions for this Report:

DATE RUN 05/02/95
ANALYST LAJ
INSTRUMENT HP-V3
DIL. FACTOR 1
UNITS = ug/L

ND = not detected at detection limit

Received: 04/28/95 Results by Sample

SAMPLE ID PEPPERELL FB FRACTION 06A TEST CODE 624 NAME PURGEABLE ORGANICS VOA
Date & Time Collected 04/28/95 13:30:00 Category WATER

PURGEABLE ORGANICS VOA

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	2.0	Dibromochloromethane	ND	2.0
Bromomethane	ND	2.0	1,1,2-Trichloroethane	ND	2.0
Vinyl Chloride	ND	10	Benzene	ND	2.0
Chloroethane	ND	2.0	cis-1,3-Dichloropropene	ND	2.0
Methylene Chloride	ND	10	2-Chloroethylvinylether	ND	2.0
Acetone	ND	50	Bromoform	ND	2.0
Carbon Disulfide	ND	2.0	2-Hexanone	ND	4.0
1,1-Dichloroethene	ND	2.0	4-Methyl-2-pentanone	ND	4.0
1,1-Dichloroethane	ND	2.0	Tetrachloroethene	ND	2.0
Total 1,2-Dichloroethene	ND	2.0	1,1,2,2-Tetrachloroethane	ND	2.0
Chloroform	ND	2.0	Toluene	ND	2.0
1,2-Dichloroethane	ND	2.0	Chlorobenzene	ND	2.0
2-Butanone	ND	10	Ethyl Benzene	ND	2.0
1,1,1-Trichloroethane	ND	2.0	Styrene	ND	2.0
Carbon Tetrachloride	ND	2.0	Total Xylenes	ND	2.0
Vinyl Acetate	ND	2.0	Trichlorofluoromethane	ND	2.0
Bromodichloromethane	ND	2.0	1,2-Dichlorobenzene	ND	2.0
1,2-Dichloropropane	ND	2.0	1,3-Dichlorobenzene	ND	2.0
trans-1,3-Dichloropropene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Trichloroethene	ND	2.0	Dichlorodifluoromethane	ND	2.0
			Acrolein	ND	50
			Acrylonitrile	ND	10

Notes and Definitions for this Report:

DATE RUN 05/02/95
ANALYST LAJ
INSTRUMENT HP-V3
DIL. FACTOR 1
UNITS = ug/L

ND = not detected at detection limit

TEST CODE 624 NAME PURGEABLE ORGANICS VOA

EPA METHOD: 624

Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A. 40CFR Part 136. Federal Register Vol. 49, No. 209, 1984.

This method has been modified gy the use of a capillary column.

TEST CODE 8240 NAME PURGEABLE ORGANICS VOA

EPA METHOD: 8240: Gas Chromatography/Mass Spectrometry for Volatile Organics.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods. EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

This method has been modified by the use of a capillary column.

TOXIKON
225 Wildwood Ave., Woburn, MA 01801
Telephone: (617) 933-6903
Fax: (617) 933-9196

CHAIN OF CUSTODY RECORD

WORK ORDER #: [illegible]
DUE DATE : 5 - 2 - 95

COMPANY: Rust Remedial Services
ADDRESS: 41 Atlantic Ave
Woburn MA 01801
PHONE #: (617) 938 7196 FAX #: (617) 938 7194
P.O. #: 412 888
PROJECT MANAGER: Lawrence Colburn
PROJECT ID/LOCATION: I-Plex

SAMPLE TYPE: 1. WASTEWATER 2. SOIL 3. SLUDGE 4. OIL 5. DRINKING WATER 6. WATER (GW/MW/SW) 7. OTHER (SPECIFY
CONTAINER TYPE: P - PLASTIC G - GLASS V - VOA

ANALYSES: Volatile Organics 8240 / Volatile Organics 624

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVE	Volatile Organics 8240	Volatile Organics 624	COMMENTS
1	Manchester	2	2oz	V	5	4.28.95	09:45	None	X	}	Composite all 5 and call "Manchester VOA"
2	New Boston	2	2oz	V	5	↓	11:00	None	X	}	Composite all 5 and call "~~Manchester~~ New Boston VOA"
3	Pepperell	2	2oz	V	5	↓	13:30	None	X	}	Composite all 5 and call "Pepperell VOA"
4	Manchester FB	6	40ml	V	1	4.28.95	09:45	None		X	
5	New Boston FB	6	40ml	V	1	↓	11:00 ~~1300~~	None		X	
6	Pepperell FB	6	40ml	V	1	↓	13:30	None		X	

SAMPLED BY:	DATE: - -	RECEIVED BY:	DATE: - -
	TIME: - -		TIME: - -
RELINQUISHED BY:	DATE: 4 - 28 - 95	RECEIVED BY:	DATE: 4 - 28 - 95
	TIME: 16 - 35 -		TIME: 16:37 -
RELINQUISHED BY:	DATE: - -	RECEIVED FOR LAB BY:	DATE: - -
	TIME: - -		TIME: - -
METHOD OF S[illegible]MENT		COOLER TEMPERATU[illegible]	

SPECIAL INSTRUCTIONS:

☒ RUSH 2 BUSINESS DAY TURN AROUND
☐ ROUTINE

Sample disposal information
Are there any other known or suspected contaminants in these samples [illegible] than those listed above?
Yes ____ No X If Yes, 1st Know[illegible]

TOPSOIL FROM CAPE COD, MA

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LOG NO: T7-21507
Received: 05 JUN 97
Reported: 10 JUN 97

Mr. John Fiore
Monsanto Company
1 Mystic View Road
Everett, MA 02149

Client PO. No.: 9290

Project: Cape Cod Project
Sampled By: Client
Code: 091970611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
TCL Volatiles by GC/MS (8260)	
Chloromethane, ug/kg dw	<12
Bromomethane, ug/kg dw	<12
Vinyl chloride, ug/kg dw	<12
Chloroethane, ug/kg dw	<12
Methylene chloride (Dichloromethane), ug/kg dw	<6.0
Acetone, ug/kg dw	<60
Carbon disulfide, ug/kg dw	<6.0
1,1-Dichloroethene, ug/kg dw	<6.0
1,1-Dichloroethane, ug/kg dw	<6.0
cis/trans-1,2- Dichloroethylene, ug/kg dw	<6.0
Chloroform, ug/kg dw	<6.0
1,2-Dichloroethane, ug/kg dw	<6.0
2-Butanone (MEK), ug/kg dw	<30
1,1,1-Trichloroethane, ug/kg dw	<6.0
Carbon tetrachloride, ug/kg dw	<6.0
Bromodichloromethane, ug/kg dw	<6.0
1,2-Dichloropropane, ug/kg dw	<6.0
cis-1,3-Dichloropropene, ug/kg dw	<6.0
Trichloroethene, ug/kg dw	<6.0
Dibromochloromethane, ug/kg dw	<6.0
1,1,2-Trichloroethane, ug/kg dw	<6.0
Benzene, ug/kg dw	<6.0
trans-1,3-Dichloropropene, ug/kg dw	<6.0

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21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
Bromoform, ug/kg dw	<6.0
4-Methyl-2-pentanone (MIBK), ug/kg dw	<30
2-Hexanone, ug/kg dw	<30
Tetrachloroethene, ug/kg dw	<6.0
Toluene, ug/kg dw	<6.0
1,1,2,2-Tetrachloroethane, ug/kg dw	<6.0
Chlorobenzene, ug/kg dw	<6.0
Ethylbenzene, ug/kg dw	<6.0
Styrene, ug/kg dw	<6.0
Xylenes, ug/kg dw	<12
Surrogate - Dibromofluoromethane	99 %
Surrogate - Toluene-d8	94 %
Surrogate - 4-Bromofluorobenzene	114 %
Date Analyzed	06.06.97
Dilution factor	1.0
Batch ID	0606M

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21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
TCL - Semivolatiles (8270)	
Phenol, ug/kg dw	<400
bis(2-Chloroethyl)ether, ug/kg dw	<400
2-Chlorophenol, ug/kg dw	<400
1,3-Dichlorobenzene, ug/kg dw	<400
1,4-Dichlorobenzene, ug/kg dw	<400
1,2-Dichlorobenzene, ug/kg dw	<400
2-Methylphenol (o-cresol), ug/kg dw	<400
bis(2-Chloroisopropyl)ether , ug/kg dw	<400
3-Methylphenol/4-Methylphenol(m&p-cresol), ug/kg dw	<400
N-Nitroso-di-n-propylamine, ug/kg dw	<400
Hexachloroethane, ug/kg dw	<400
Nitrobenzene, ug/kg dw	<400
Isophorone, ug/kg dw	<400
2-Nitrophenol, ug/kg dw	<400
2,4-Dimethylphenol, ug/kg dw	<400
bis(2-Chloroethoxy)methane, ug/kg dw	<400
2,4-Dichlorophenol, ug/kg dw	<400
1,2,4-Trichlorobenzene, ug/kg dw	<400
Naphthalene, ug/kg dw	<400
4-Chloroaniline, ug/kg dw	<800

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21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
Hexachlorobutadiene, ug/kg dw	<400
4-Chloro-3-methylphenol, ug/kg dw	<400
2-Methylnaphthalene, ug/kg dw	<400
Hexachlorocyclopentadiene, ug/kg dw	<400
2,4,6-Trichlorophenol, ug/kg dw	<400
2,4,5-Trichlorophenol, ug/kg dw	<400
2-Chloronaphthalene, ug/kg dw	<400
2-Nitroaniline, ug/kg dw	<2000
Dimethylphthalate, ug/kg dw	<400
Acenaphthylene, ug/kg dw	<400
2,6-Dinitrotoluene, ug/kg dw	<400
3-Nitroaniline, ug/kg dw	<2000
Acenaphthene, ug/kg dw	<400
2,4-Dinitrophenol, ug/kg dw	<2000
4-Nitrophenol, ug/kg dw	<2000
Dibenzofuran, ug/kg dw	<400
2,4-Dinitrotoluene, ug/kg dw	<400
Diethylphthalate, ug/kg dw	<400
4-Chlorophenylphenyl ether, ug/kg dw	<400
Fluorene, ug/kg dw	<400
4-Nitroaniline, ug/kg dw	<2000
4,6-Dinitro-2-methylphenol, ug/kg dw	<2000
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<400

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21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
4-Bromophenyl phenyl ether, ug/kg dw	<400
Hexachlorobenzene, ug/kg dw	<400
Pentachlorophenol, ug/kg dw	<2000
Phenanthrene, ug/kg dw	<400
Anthracene, ug/kg dw	<400
Carbazole, ug/kg dw	<400
Di-n-butylphthalate, ug/kg dw	<400
Fluoranthene, ug/kg dw	660
Pyrene, ug/kg dw	860
Butylbenzylphthalate, ug/kg dw	<400
3,3'-Dichlorobenzidine, ug/kg dw	<800
Benzo(a)anthracene, ug/kg dw	<400
Chrysene, ug/kg dw	410
bis(2-Ethylhexyl)phthalate, ug/kg dw	<400
Di-n-octylphthalate, ug/kg dw	<400
Benzo(b)fluoranthene, ug/kg dw	550
Benzo(k)fluoranthene, ug/kg dw	<400
Benzo(a)pyrene, ug/kg dw	<400
Indeno(1,2,3-cd)pyrene, ug/kg dw	<400
Dibenzo(a,h)anthracene, ug/kg dw	<400
Benzo(g,h,i)perylene, ug/kg dw	<400
Surrogate - 2-Fluorophenol	72 %
Surrogate - Phenol d5	79 %
Surrogate - Nitrobenzene - d5	58 %

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21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
Surrogate - 2-Fluorobiphenyl	76 %
Surrogate - 2,4,6-Tribromophenol	109 %
Surrogate - Terphenyl - d14	125 %
Date Extracted	06.06.97
Date Analyzed	06.06.97
Dilution factor	1.0
Batch ID	0606H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
TCL - Pesticides/PCB's (8080)	
alpha-BHC, ug/kg dw	<2.0
beta-BHC, ug/kg dw	20
gamma-BHC, ug/kg dw	<2.0
Heptachlor, ug/kg dw	<2.0
Aldrin, ug/kg dw	<2.0
Heptachlor epoxide, ug/kg dw	3.2
Endosulfan I, ug/kg dw	<2.0
Dieldrin, ug/kg dw	<4.0
4,4'-DDE, ug/kg dw	35
Endrin, ug/kg dw	<4.0
Endosulfan II, ug/kg dw	<4.0
4,4'-DDD, ug/kg dw	7.0
Endosulfan sulfate, ug/kg dw	<4.0
4,4'-DDT, ug/kg dw	53
Methoxychlor, ug/kg dw	<20
Endrin ketone, ug/kg dw	<4.0
Endrin aldehyde, ug/kg dw	<4.0
alpha-Chlordane, ug/kg dw	24
gamma-Chlordane, ug/kg dw	22
Toxaphene, ug/kg dw	<200
Aroclor-1016, ug/kg dw	<40
Aroclor-1221, ug/kg dw	<81
Aroclor-1232, ug/kg dw	<40
Aroclor-1242, ug/kg dw	<40
Aroclor-1248, ug/kg dw	<40

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21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
Aroclor-1254, ug/kg dw	<40
Aroclor-1260, ug/kg dw	<40
Surrogate - Dibutyl Chlorendate	74 %
Surrogate - Tetrachloro-m-xylene	53 %
Surrogate - Decachlorobiphenyl	33 %
Date Extracted	06.06.97
Date Analyzed	06.07.97
Dilution factor	1.0
Batch ID	0606I
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO, ug/kg dw	<220
Surrogate - a,a,a-Trifluorotoluene	85 %
Dilution factor	1.0
Date Analyzed	06.09.97
Diesel Range Organics (8100M)	
Hydrocarbons as DRO, ug/kg dw	10000
Surrogate - o-Terphenyl	81 %
Surrogate - 2-Fluorobiphenyl	75 %
Dilution factor	1
Date Extracted	06.06.97
Date Analyzed	06.09.97
Cyanide (9012)	
Cyanide, Total (9012), mg/kg dw	<1.2
Preparation Date	06.05.97
Date Analyzed	06.10.97
Dilution factor	1.0
Batch ID	0605K

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
Metals by ICP (3050/6010)	
Aluminum, mg/kg dw	9700
Antimony, mg/kg dw	<5.0
Arsenic, mg/kg dw	4.4
Barium, mg/kg dw	36
Beryllium, mg/kg dw	<0.40
Cadmium, mg/kg dw	<0.50
Calcium, mg/kg dw	2100
Chromium, mg/kg dw	13
Cobalt, mg/kg dw	5.0
Copper, mg/kg dw	17
Iron, mg/kg dw	13000
Lead, mg/kg dw	56
Magnesium, mg/kg dw	2000
Manganese, mg/kg dw	200
Nickel, mg/kg dw	8.4
Potassium, mg/kg dw	710
Selenium, mg/kg dw	<1.0
Silver, mg/kg dw	<1.0
Sodium, mg/kg dw	86
Thallium, mg/kg dw	<1.0
Vanadium, mg/kg dw	24
Zinc, mg/kg dw	54
Dilution factor	1.0
Prep or Extraction Date	06.05.97
Date Analyzed	06.06.97
Batch ID	0605C

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21507-1	CC-2-002	06-04-97/1405

PARAMETER	21507-1
Mercury (7471)	
Mercury (7470/7471), mg/kg dw	0.10
Prep or Extraction Date	06.05.97
Date Analyzed	06.05.97
Dilution factor	1.0
Batch ID	0605R
Percent Solids, %	83 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
TCL Volatiles by GC/MS (8260)					
Chloromethane, ug/kg dw	<10	---	---	---	10
Bromomethane, ug/kg dw	<10	---	---	---	10
Vinyl chloride, ug/kg dw	<10	---	---	---	10
Chloroethane, ug/kg dw	<10	---	---	---	10
Methylene chloride (Dichloromethane), ug/kg dw	<5.0	---	---	---	5.0
Acetone, ug/kg dw	<50	---	---	---	50
Carbon disulfide, ug/kg dw	<5.0	---	---	---	5.0
1,1-Dichloroethene, ug/kg dw	<5.0	50-177 %	120 %	1.5 %	5.0
1,1-Dichloroethane, ug/kg dw	<5.0	---	---	---	5.0
cis/trans-1,2-Dichloroethylene, ug/kg dw	<5.0	---	---	---	5.0
Chloroform, ug/kg dw	<5.0	---	---	---	5.0
1,2-Dichloroethane, ug/kg dw	<5.0	---	---	---	5.0
2-Butanone (MEK), ug/kg dw	<25	---	---	---	25
1,1,1-Trichloroethane, ug/kg dw	<5.0	---	---	---	5.0
Carbon tetrachloride, ug/kg dw	<5.0	---	---	---	5.0
Bromodichloromethane, ug/kg dw	<5.0	---	---	---	5.0
1,2-Dichloropropane, ug/kg dw	<5.0	---	---	---	5.0
cis-1,3-Dichloropropene, ug/kg dw	<5.0	---	---	---	5.0
Trichloroethene, ug/kg dw	<5.0	41-134 %	108 %	2.8 %	5.0

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21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
Dibromochloromethane, ug/kg dw	<5.0	---	---	---	5.0
1,1,2-Trichloroethane, ug/kg dw	<5.0	---	---	---	5.0
Benzene, ug/kg dw	<5.0	66-137 %	111 %	0.50 %	5.0
trans-1,3-Dichloropropene, ug/kg dw	<5.0	---	---	---	5.0
Bromoform, ug/kg dw	<5.0	---	---	---	5.0
4-Methyl-2-pentanone (MIBK), ug/kg dw	<25	---	---	---	25
2-Hexanone, ug/kg dw	<25	---	---	---	25
Tetrachloroethene, ug/kg dw	<5.0	---	---	---	5.0
Toluene, ug/kg dw	<5.0	60-144 %	108 %	0 %	5.0
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	---	---	---	5.0
Chlorobenzene, ug/kg dw	<5.0	63-139 %	106 %	1.4 %	5.0
Ethylbenzene, ug/kg dw	<5.0	---	---	---	5.0
Styrene, ug/kg dw	<5.0	---	---	---	5.0
Xylenes, ug/kg dw	<10	---	---	---	10
Surrogate - Dibromofluoromethane	99 %	---	100 %	---	---
Surrogate - Toluene-d8	109 %	---	102 %	---	---
Surrogate - 4-Bromofluorobenzene	97 %	---	91 %	---	---
Date Analyzed	06.06.97	---	06.06.97	---	---
Dilution factor	1.0	---	1.0	---	---
Batch ID	0606M	---	0606M	---	---

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21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
TCL - Semivolatiles (8270)					
Phenol, ug/kg dw	<330	26-108 %	63 %	3.7 %	330
bis(2-Chloroethyl)ether, ug/kg dw	<330	---	---	---	330
2-Chlorophenol, ug/kg dw	<330	29-108 %	66 %	1.8 %	330
1,3-Dichlorobenzene, ug/kg dw	<330	---	---	---	330
1,4-Dichlorobenzene, ug/kg dw	<330	20-114 %	60 %	14 %	330
1,2-Dichlorobenzene, ug/kg dw	<330	---	---	---	330
2-Methylphenol (o-cresol), ug/kg dw	<330	---	---	---	330
bis(2-Chloroisopropyl)ether , ug/kg dw	<330	---	---	---	330
3-Methylphenol/4-Methylphenol(m&p-cresol), ug/kg dw	<330	---	---	---	330
N-Nitroso-di-n-propylamine, ug/kg dw	<330	27-140 %	72 %	3.8 %	330
Hexachloroethane, ug/kg dw	<330	---	---	---	330
Nitrobenzene, ug/kg dw	<330	---	---	---	330
Isophorone, ug/kg dw	<330	---	---	---	330
2-Nitrophenol, ug/kg dw	<330	---	---	---	330
2,4-Dimethylphenol, ug/kg dw	<330	---	---	---	330
bis(2-Chloroethoxy)methane, ug/kg dw	<330	---	---	---	330

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LOG NO: T7-21507
Received: 05 JUN 97
Reported: 10 JUN 97

Mr. John Fiore
Monsanto Company
1 Mystic View Road
Everett, MA 02149

Client PO. No.: 9290

Project: Cape Cod Project
Sampled By: Client
Code: 091970611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
2,4-Dichlorophenol, ug/kg dw	<330	---	---	---	330
1,2,4-Trichlorobenzene, ug/kg dw	<330	23-124 %	74 %	4.8 %	330
Naphthalene, ug/kg dw	<330	---	---	---	330
4-Chloroaniline, ug/kg dw	<660	---	---	---	660
Hexachlorobutadiene, ug/kg dw	<330	---	---	---	330
4-Chloro-3-methylphenol, ug/kg dw	<330	31-123 %	78 %	7.3 %	330
2-Methylnaphthalene, ug/kg dw	<330	---	---	---	330
Hexachlorocyclopentadiene, ug/kg dw	<330	---	---	---	330
2,4,6-Trichlorophenol, ug/kg dw	<330	---	---	---	330
2,4,5-Trichlorophenol, ug/kg dw	<330	---	---	---	330
2-Chloronaphthalene, ug/kg dw	<330	---	---	---	330
2-Nitroaniline, ug/kg dw	<1700	---	---	---	1700
Dimethylphthalate, ug/kg dw	<330	---	---	---	330
Acenaphthylene, ug/kg dw	<330	---	---	---	330
2,6-Dinitrotoluene, ug/kg dw	<330	---	---	---	330
3-Nitroaniline, ug/kg dw	<1700	---	---	---	1700
Acenaphthene, ug/kg dw	<330	27-124 %	69 %	5.1 %	330
2,4-Dinitrophenol, ug/kg dw	<1700	---	---	---	1700
4-Nitrophenol, ug/kg dw	<1700	10-125 %	59 %	2.2 %	1700
Dibenzofuran, ug/kg dw	<330	---	---	---	330
2,4-Dinitrotoluene, ug/kg dw	<330	25-128 %	70 %	6.4 %	330

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
Diethylphthalate, ug/kg dw	<330	---	---	---	330
4-Chlorophenylphenyl ether, ug/kg dw	<330	---	---	---	330
Fluorene, ug/kg dw	<330	---	---	---	330
4-Nitroaniline, ug/kg dw	<1700	---	---	---	1700
4,6-Dinitro-2-methylphenol, ug/kg dw	<1700	---	---	---	1700
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	<330	---	---	---	330
4-Bromophenyl phenyl ether, ug/kg dw	<330	---	---	---	330
Hexachlorobenzene, ug/kg dw	<330	---	---	---	330
Pentachlorophenol, ug/kg dw	<1700	10-111 %	82 %	15 %	1700
Phenanthrene, ug/kg dw	<330	---	---	---	330
Anthracene, ug/kg dw	<330	---	---	---	330
Carbazole, ug/kg dw	<330	---	---	---	330
Di-n-butylphthalate, ug/kg dw	<330	---	---	---	330
Fluoranthene, ug/kg dw	<330	---	---	---	330
Pyrene, ug/kg dw	<330	24-155 %	82 %	9.1 %	330
Butylbenzylphthalate, ug/kg dw	<330	---	---	---	330
3,3'-Dichlorobenzidine, ug/kg dw	<660	---	---	---	660
Benzo(a)anthracene, ug/kg dw	<330	---	---	---	330

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21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
Chrysene, ug/kg dw	<330	---	---	---	330
bis(2-Ethylhexyl)phthalate, ug/kg dw	<330	---	---	---	330
Di-n-octylphthalate, ug/kg dw	<330	---	---	---	330
Benzo(b)fluoranthene, ug/kg dw	<330	---	---	---	330
Benzo(k)fluoranthene, ug/kg dw	<330	---	---	---	330
Benzo(a)pyrene, ug/kg dw	<330	---	---	---	330
Indeno(1,2,3-cd)pyrene, ug/kg dw	<330	---	---	---	330
Dibenzo(a,h)anthracene, ug/kg dw	<330	---	---	---	330
Benzo(g,h,i)perylene, ug/kg dw	<330	---	---	---	330
Surrogate - 2-Fluorophenol	72 %	18-107 %	69 %	---	---
Surrogate - Phenol d5	76 %	28-105 %	72 %	---	---
Surrogate - Nitrobenzene - d5	66 %	21-98 %	69 %	---	---
Surrogate - 2-Fluorobiphenyl	73 %	29-99 %	72 %	---	---
Surrogate - 2,4,6-Tribromophenol	90 %	12-122 %	95 %	---	---
Surrogate - Terphenyl - d14	81 %	22-136 %	76 %	---	---
Date Extracted	06.06.97	---	06.06.97	---	---
Date Analyzed	06.06.97	---	06.06.97	---	---
Dilution factor	1.0	---	1.0	---	---
Batch ID	0606H	---	0606H	---	---

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21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
TCL - Pesticides/PCB's (8080)					
alpha-BHC, ug/kg dw	<1.7	---	---	---	1.7
beta-BHC, ug/kg dw	<1.7	---	---	---	1.7
delta-BHC, ug/kg dw	<1.7	---	---	---	1.7
gamma-BHC, ug/kg dw	<1.7	10-173 %	42 %	27 %	1.7
Heptachlor, ug/kg dw	<1.7	10-162 %	57 %	19 %	1.7
Aldrin, ug/kg dw	<1.7	10-168 %	40 %	32 %	1.7
Heptachlor epoxide, ug/kg dw	<1.7	---	---	---	1.7
Endosulfan I, ug/kg dw	<1.7	---	---	---	1.7
Dieldrin, ug/kg dw	<3.3	10-176 %	72 %	1.4 %	3.3
4,4'-DDE, ug/kg dw	<3.3	---	---	---	3.3
Endrin, ug/kg dw	<3.3	10-180 %	84 %	1.2 %	3.3
Endosulfan II, ug/kg dw	<3.3	---	---	---	3.3
4,4'-DDD, ug/kg dw	<3.3	---	---	---	3.3
Endosulfan sulfate, ug/kg dw	<3.3	---	---	---	3.3
4,4'-DDT, ug/kg dw	<3.3	10-181 %	84 %	7.1 %	3.3
Methoxychlor, ug/kg dw	<17	---	---	---	17
Endrin ketone, ug/kg dw	<3.3	---	---	---	3.3
Endrin aldehyde, ug/kg dw	<3.3	---	---	---	3.3
alpha-Chlordane, ug/kg dw	<1.7	---	---	---	1.7
gamma-Chlordane, ug/kg dw	<1.7	---	---	---	1.7
Toxaphene, ug/kg dw	<170	---	---	---	170

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LOG NO: T7-21507
Received: 05 JUN 97
Reported: 10 JUN 97

Mr. John Fiore
Monsanto Company
1 Mystic View Road
Everett, MA 02149

Client PO. No.: 9290

Project: Cape Cod Project
Sampled By: Client
Code: 092570611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
Aroclor-1016, ug/kg dw	<33	---	---	---	33
Aroclor-1221, ug/kg dw	<67	---	---	---	67
Aroclor-1232, ug/kg dw	<33	---	---	---	33
Aroclor-1242, ug/kg dw	<33	---	---	---	33
Aroclor-1248, ug/kg dw	<33	---	---	---	33
Aroclor-1254, ug/kg dw	<33	---	---	---	33
Aroclor-1260, ug/kg dw	<33	---	---	---	33
Surrogate - Dibutyl Chlorendate	88 %	---	91 %	---	---
Surrogate - Tetrachloro-m-xylene	31 %	---	32 %	---	---
Surrogate - Decachlorobiphenyl	64 %	---	66 %	---	---
Date Extracted	06.06.97	---	06.06.97	---	---
Date Analyzed	06.07.97	---	06.07.97	---	---
Dilution factor	1.0	---	1.0	---	---
Batch ID	0606I	---	0606I	---	---
Gasoline Range Organics (8015M)					
Hydrocarbons as GRO, ug/kg dw	<180	50-150 %	63 %	5.5 %	180
Surrogate - a,a,a-Trifluorotoluene	80 %	---	76 %	---	---
Dilution factor	1.0	---	1.0	---	---
Date Analyzed	06.09.97	---	06.09.97	---	---

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Mr. John Fiore
Monsanto Company
1 Mystic View Road
Everett, MA 02149

Client PO. No.: 9290

Project: Cape Cod Project
Sampled By: Client
Code: 170570611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
Diesel Range Organics (8100M)					
Hydrocarbons as DRO, ug/kg dw	<3300	40-140 %	89 %	0.47 %	3300
Surrogate - o-Terphenyl	81 %	---	88 %	---	---
Surrogate - 2-Fluorobiphenyl	74 %	---	70 %	---	---
Dilution factor	1.0	---	1.0	---	---
Date Extracted	06.06.97	---	06.06.97	---	---
Date Analyzed	06.09.97	---	06.09.97	---	---
Cyanide (9012)					
Cyanide, Total (9012), mg/kg dw	<1.0	75-125 %	102 %	2.0 %	1.0
Dilution factor	1.0	---	1.0	---	---
Prep or Extraction Date	06.05.97	---	06.05.97	---	---
Date Analyzed	06.10.97	---	06.10.97	---	---
Batch ID	0605K	---	0605K	---	---

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Monsanto Company
1 Mystic View Road
Everett, MA 02149

Client PO. No.: 9290

Project: Cape Cod Project
Sampled By: Client
Code: 092570611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
Metals by ICP (3050/6010)					
Aluminum, mg/kg dw	<20	70-130%	125 %	0 %	20
Antimony, mg/kg dw	<5.0	70-130%	123 %	4.9 %	5.0
Arsenic, mg/kg dw	<1.0	70-130%	106 %	7.5 %	1.0
Barium, mg/kg dw	<1.0	70-130%	110 %	8.2 %	1.0
Beryllium, mg/kg dw	<0.40	70-130%	110 %	6.4 %	0.40
Cadmium, mg/kg dw	<0.50	70-130%	107 %	7.5 %	0.50
Calcium, mg/kg dw	<50	70-130%	106 %	7.5 %	50
Chromium, mg/kg dw	<1.0	70-130%	114 %	7.0 %	1.0
Cobalt, mg/kg dw	<1.0	70-130%	110 %	7.3 %	1.0
Copper, mg/kg dw	<2.5	70-130%	112 %	3.6 %	2.5
Iron, mg/kg dw	<5.0	70-130%	101 %	0 %	5.0
Lead, mg/kg dw	<0.50	70-130%	103 %	7.8 %	0.50
Magnesium, mg/kg dw	<50	70-130%	110 %	10 %	50
Manganese, mg/kg dw	<1.0	70-130%	111 %	5.4 %	1.0
Nickel, mg/kg dw	<4.0	70-130%	110 %	6.4 %	4.0
Potassium, mg/kg dw	<100	70-130%	114 %	0.88 %	100
Selenium, mg/kg dw	<1.0	70-130%	105 %	5.7 %	1.0
Silver, mg/kg dw	<1.0	70-130%	113 %	5.3 %	1.0
Sodium, mg/kg dw	<50	70-130%	93 %	11 %	50
Thallium, mg/kg dw	<1.0	70-130%	106 %	5.7 %	1.0
Vanadium, mg/kg dw	<1.0	70-130%	121 %	6.6 %	1.0
Zinc, mg/kg dw	<2.0	70-130%	104 %	11 %	2.0
Dilution factor	1.0	---	1.0	---	---
Prep or Extraction Date	06.05.97	---	06.05.97	---	---
Date Analyzed	06.06.97	---	06.06.97	---	---
Batch ID	0605C	---	0605C	---	---

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Project: Cape Cod Project
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Code: 092570611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-2	Method (Lab) Blank
21507-3	LCS Accuracy Control Limit (%R)
21507-4	Accuracy (% Mean)
21507-5	Precision (%RPD)
21507-6	Reporting Limit (RL)

PARAMETER	21507-2	21507-3	21507-4	21507-5	21507-6
Mercury (7471)					
Mercury (7470/7471), mg/kg dw	<0.030	70-130 %	118 %	5.1 %	0.030
Prep or Extraction Date	06.05.97	---	06.05.97	---	---
Date Analyzed	06.05.97	---	06.05.97	---	---
Dilution factor	1.0	---	1.0	---	---
Batch ID	0605R	---	0605R	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-7	Analyst

PARAMETER	21507-7
TCL Volatiles by GC/MS (8260)	
Chloromethane	D.WALL
Bromomethane	D.WALL
Vinyl chloride	D.WALL
Chloroethane	D.WALL
Methylene chloride (Dichloromethane)	D.WALL
Acetone	D.WALL
Carbon disulfide	D.WALL
1,1-Dichloroethene	D.WALL
1,1-Dichloroethane	D.WALL
cis/trans-1,2- Dichloroethylene	D.WALL
Chloroform	D.WALL
1,2-Dichloroethane	D.WALL
2-Butanone (MEK)	D.WALL
1,1,1-Trichloroethane	D.WALL
Carbon tetrachloride	D.WALL
Bromodichloromethane	D.WALL
1,2-Dichloropropane	D.WALL
cis-1,3-Dichloropropene	D.WALL
Trichloroethene	D.WALL
Dibromochloromethane	D.WALL
1,1,2-Trichloroethane	D.WALL
Benzene	D.WALL
trans-1,3-Dichloropropene	D.WALL
Bromoform	D.WALL

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21507-7	Analyst

PARAMETER	21507-7
4-Methyl-2-pentanone (MIBK)	D.WALL
2-Hexanone	D.WALL
Tetrachloroethene	D.WALL
Toluene	D.WALL
1,1,2,2-Tetrachloroethane	D.WALL
Chlorobenzene	D.WALL
Ethylbenzene	D.WALL
Styrene	D.WALL
Xylenes	D.WALL

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-7	Analyst

PARAMETER	21507-7
TCL - Semivolatiles (8270)	
Phenol	T.PRESTON
bis(2-Chloroethyl)ether	T.PRESTON
2-Chlorophenol	T.PRESTON
1,3-Dichlorobenzene	T.PRESTON
1,4-Dichlorobenzene	T.PRESTON
1,2-Dichlorobenzene	T.PRESTON
2-Methylphenol (o-cresol)	T.PRESTON
bis(2-Chloroisopropyl)ether	T.PRESTON
3-Methylphenol/4-Methylphenol(m&p-cresol)	T.PRESTON
N-Nitroso-di-n-propylamine	T.PRESTON
Hexachloroethane	T.PRESTON
Nitrobenzene	T.PRESTON
Isophorone	T.PRESTON
2-Nitrophenol	T.PRESTON
2,4-Dimethylphenol	T.PRESTON
bis(2-Chloroethoxy)methane	T.PRESTON
2,4-Dichlorophenol	T.PRESTON
1,2,4-Trichlorobenzene	T.PRESTON
Naphthalene	T.PRESTON
4-Chloroaniline	T.PRESTON
Hexachlorobutadiene	T.PRESTON
4-Chloro-3-methylphenol	T.PRESTON
2-Methylnaphthalene	T.PRESTON
Hexachlorocyclopentadiene	T.PRESTON

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21507-7	Analyst

PARAMETER	21507-7
2,4,6-Trichlorophenol	T.PRESTON
2,4,5-Trichlorophenol	T.PRESTON
2-Chloronaphthalene	T.PRESTON
2-Nitroaniline	T.PRESTON
Dimethylphthalate	T.PRESTON
Acenaphthylene	T.PRESTON
2,6-Dinitrotoluene	T.PRESTON
3-Nitroaniline	T.PRESTON
Acenaphthene	T.PRESTON
2,4-Dinitrophenol	T.PRESTON
4-Nitrophenol	T.PRESTON
Dibenzofuran	T.PRESTON
2,4-Dinitrotoluene	T.PRESTON
Diethylphthalate	T.PRESTON
4-Chlorophenylphenyl ether	T.PRESTON
Fluorene	T.PRESTON
4-Nitroaniline	T.PRESTON
4,6-Dinitro-2-methylphenol	T.PRESTON
N-Nitrosodiphenylamine/Diphenylamine	T.PRESTON
4-Bromophenyl phenyl ether	T.PRESTON
Hexachlorobenzene	T.PRESTON
Pentachlorophenol	T.PRESTON
Phenanthrene	T.PRESTON
Anthracene	T.PRESTON
Carbazole	T.PRESTON

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

2846 Industrial Plaza Drive (32301) • P.O. Box 13056 • Tallahassee, FL 32317-3056 • (904) 878-3994 • Fax (904) 878-9504

LOG NO: T7-21507
Received: 05 JUN 97
Reported: 10 JUN 97

Mr. John Fiore
Monsanto Company
1 Mystic View Road
Everett, MA 02149

Client PO. No.: 9290

Project: Cape Cod Project
Sampled By: Client
Code: 091970611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-7	Analyst

PARAMETER	21507-7
Di-n-butylphthalate	T.PRESTON
Fluoranthene	T.PRESTON
Pyrene	T.PRESTON
Butylbenzylphthalate	T.PRESTON
3,3'-Dichlorobenzidine	T.PRESTON
Benzo(a)anthracene	T.PRESTON
Chrysene	T.PRESTON
bis(2-Ethylhexyl)phthalate	T.PRESTON
Di-n-octylphthalate	T.PRESTON
Benzo(b)fluoranthene	T.PRESTON
Benzo(k)fluoranthene	T.PRESTON
Benzo(a)pyrene	T.PRESTON
Indeno(1,2,3-cd)pyrene	T.PRESTON
Dibenzo(a,h)anthracene	T.PRESTON
Benzo(g,h,i)perylene	T.PRESTON

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& ENVIRONMENTAL SERVICES, INC.

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LOG NO: T7-21507
Received: 05 JUN 97
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Mr. John Fiore
Monsanto Company
1 Mystic View Road
Everett, MA 02149

Client PO. No.: 9290

Project: Cape Cod Project
Sampled By: Client
Code: 091970611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-7	Analyst

PARAMETER	21507-7
TCL - Pesticides/PCB's (8080)	
alpha-BHC	T.PRESTON
beta-BHC	T.PRESTON
delta-BHC	T.PRESTON
gamma-BHC	T.PRESTON
Heptachlor	T.PRESTON
Aldrin	T.PRESTON
Heptachlor epoxide	T.PRESTON
Endosulfan I	T.PRESTON
Dieldrin	T.PRESTON
4,4'-DDE	T.PRESTON
Endrin	T.PRESTON
Endosulfan II	T.PRESTON
4,4'-DDD	T.PRESTON
Endosulfan sulfate	T.PRESTON
4,4'-DDT	T.PRESTON
Methoxychlor	T.PRESTON
Endrin ketone	T.PRESTON
Endrin aldehyde	T.PRESTON
alpha-Chlordane	T.PRESTON
gamma-Chlordane	T.PRESTON
Toxaphene	T.PRESTON
Aroclor-1016	T.PRESTON
Aroclor-1221	T.PRESTON
Aroclor-1232	T.PRESTON
Aroclor-1242	T.PRESTON
Aroclor-1248	T.PRESTON
Aroclor-1254	T.PRESTON
Aroclor-1260	T.PRESTON

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

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LOG NO: T7-21507
Received: 05 JUN 97
Reported: 10 JUN 97

Client PO. No.: 9290

Mr. John Fiore
Monsanto Company
1 Mystic View Road
Everett, MA 02149

Project: Cape Cod Project
Sampled By: Client
Code: 170570611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-7	Analyst

PARAMETER	21507-7
Gasoline Range Organics (8015M)	
Hydrocarbons as GRO	M.MARTINOV
Diesel Range Organics (8100M)	
Hydrocarbons as DRO	N. PARK
Cyanide (9012)	
Cyanide, Total (9012)	W.SCHWNANN

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& ENVIRONMENTAL SERVICES, INC.

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LOG NO: T7-21507
Received: 05 JUN 97
Reported: 10 JUN 97

Mr. John Fiore
Monsanto Company
1 Mystic View Road
Everett, MA 02149

Client PO. No.: 9290

Project: Cape Cod Project
Sampled By: Client
Code: 170670611

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID
21507-7	Analyst

PARAMETER	21507-7
Metals by ICP (3050/6010)	
Aluminum	C.BECTHOLD
Antimony	C.BECTHOLD
Arsenic	C.BECTHOLD
Barium	C.BECTHOLD
Beryllium	C.BECTHOLD
Cadmium	C.BECTHOLD
Calcium	C.BECTHOLD
Chromium	C.BECTHOLD
Cobalt	C.BECTHOLD
Copper	C.BECTHOLD
Iron	C.BECTHOLD
Lead	C.BECTHOLD
Magnesium	C.BECTHOLD
Manganese	C.BECTHOLD
Nickel	C.BECTHOLD
Potassium	C.BECTHOLD
Selenium	C.BECTHOLD
Silver	C.BECTHOLD
Sodium	C.BECTHOLD
Thallium	C.BECTHOLD
Vanadium	C.BECTHOLD
Zinc	C.BECTHOLD
Mercury (7471)	
Mercury (7470/7471)	C.BECHTOLD

Method: EPA SW-846
HRS Certification #'s: 81291,E81005
FDEP Comp QAP #: 890142G

for Laura B. Snead, Project Manager

Final Page of Report

Serial Number 7073

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
☒ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 — Phone: (954) 421-7400 — Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 — Phone: (504) 764-1100 — Fax: (504) 725-1163

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
CAPE COD PROJECT	—	9290

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
MA	GEN LAFFERTY	617-387-4145	617-387-0125

CLIENT NAME: MONSANTO COMPANY

CLIENT PROJECT MANAGER:

CLIENT ADDRESS (CITY, STATE, ZIP): 1 MYSTIC VIEW RD, EVERETT, MA 02149

MATRIX TYPE: AQUEOUS (WATER) / SOLID OR SEMI-SOLID / AIR / NONAQUEOUS LIQUID (oil, solvent, etc)

REQUIRED ANALYSES: TCL-SVOCS / TCL-VOC / METALS TAL

PAGE 1 OF 1

☐ STANDARD REPORT DELIVERY

☒ EXPEDITED REPORT DELIVERY (surcharge)

Date Due: 48 HR

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMI-SOLID	AIR	NONAQUEOUS LIQUID	TCL-SVOCS	TCL-VOC	METALS TAL	REMARKS
6/4/97	1405		CC-2-002					X			WILL-SCREEN LOAN
6/4/97	1406		CC-2-002						X		
6/4/97	1406		CC-2-002							X	
6/05/97											

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
				6/4/97	1435			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	6/4/97	1400		06/05/97				

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
Elliot Knight	6/5/97	0915	☑ YES ☐ NO		T721507	

Serial Number 47074

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax: (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax: (904) 878-9504
☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442 Phone: (954) 421-7400 Fax: (954) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 Phone: (334) 666-6633 Fax: (334) 666-6696
☒ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax: (813) 885-7049
☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047 Phone: (504) 764-1100 Fax: (504) 725-1163

PROJECT REFERENCE: CAPE COD PROJECT
PROJECT NO.: —
P.O. NUMBER: 9290
PAGE 1 OF 1

PROJECT LOC. (State): MA
SAMPLER(s) NAME: KEN LAFFERTY
PHONE: 617-387-4145
FAX: 617-387-0125

CLIENT NAME: MONSANTO COMPANY
CLIENT PROJECT MANAGER: JOHN FIORE
CLIENT ADDRESS (CITY, STATE, ZIP): 1 MYSTIC VIEW ROAD, EVERETT, MA 02149

☐ STANDARD REPORT DELIVERY
☒ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: 48 HR

SAMPLE DATE	SAMPLE TIME	SL NO.	SAMPLE IDENTIFICATION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (oil, solvent, etc)	TPH-GRO	TPH-DRO	REMARKS
5/4/97	1405		CC-2-002		X			X	X	WILL SAND-SCREENED LOAM

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]			[signature]	5/4/97	1405			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	5/4/97	1405	[signature]	6-5-97	1015			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SL LOG NO.	LABORATORY REMARKS:
[signature]	6-5-97	1057	☒ YES ☐ NO		T721507	TEMP. 5°

Appendix I

APPENDIX I

UTILITY CORRIDOR ALONG ATLANTIC AVENUE CUL-DE-SAC

BITUMINOUS MATERIALS

APPENDIX I.1

BITUMINOUS PLANT AND FIELD TEST SUMMARY

psi Environmental Geotechnical Construction
Consulting • Engineering • Testing

REPORT OF BITUMINOUS CONCRETE PLANT INSPECTION

TESTED FOR: Mr. John Fiore
Industri-Plex Site
Remedial Trust
41 Atlantic Ave.
Woburn, MA 01801

PROJECT: Industri-Plex Site
Woburn, MA

DATE: April 30, 1997

OUR REPORT NO.: 446-30047-856 pg 1 of 2

PLANT INFORMATION

Plant: Bardon Trimount	Location: Saugus, MA	Type of Plant: Batch/Drum

MIX INFORMATION

Type of Mix: State Binder	Coarse Agg. Source: Bordon Trimount Saugus
Asphalt Type: AC-20	Sand Source: Bardon Trimount Saugus, MA
Asphalt Source: Trimount Int. Newington NH	Screenings Source: Bardon Trimount Saugus

EXTRACTION RESULTS (% passing by weight)

Sieve Size	Ext. #1	Ext. #2	Ext. #3	Ext. #4	J.M. Formula
1"	100				100
3/4	99				80-100
5/8					
1/2	75				55-75
3/8	61				
#4	49				28-50
8	41				20-38
16	27				
30	18				8-22
50	9				5-17
100	5				
200	2.8				0-5
Asphalt (% by wt.)	5.2				4.5-5.5
Temp. (°F)	345°				290°-330°
Time	0838				
Marshall No.					
Fab. Temp. (°F)					

REMARKS: Does not meet specifications. Respectfully submitted,

PSI

Information To Build On

PSI • 905 Turnpike Street, Suite H • Canton, MA 02021 • Phone 617/821-2355 • Fax 617/821-6276

psi Environmental Geotechnical Construction
Consulting • Engineering • Testing

REPORT OF BITUMINOUS CONCRETE PLANT INSPECTION

TESTED FOR: Mr. John Fiore
Industri-Plex Site
Remedial Trust
41 Atlantic Ave.
Woburn, MA 01801

PROJECT: Industri-Plex Site
Woburn, MA

DATE: April 30, 1997

OUR REPORT NO.: 446-30047-856 pg 2 of 2

PLANT INFORMATION

Plant: Bardon Trimount	Location: Saugus, MA	Type of Plant: Batch/Drum

MIX INFORMATION

Type of Mix: State Top	Coarse Agg. Source: Bardon Trimount Saugus
Asphalt Type: AC-20	Sand Source: Bardon Trimount Swampscott
Asphalt Source: Trimount Int. Newington NH	Screenings Source: Bardon Trimount Saugus

EXTRACTION RESULTS (% passing by weight)

Sieve Size	Ext. #1	Ext. #2	Ext. #3	Ext. #4	J.M. Formula
1"					
3/4					
5/8	100				100
1/2	99.3				95-100
3/8	86.5				80-100
#4	64.6				50-76
8	41.9				37-54
16	27.0				26-40
30	19.8				17-29
50	13.5				10-21
100	7.9				5-16
200	4.7				2-7
Asphalt (% by wt.)	5.9				5.5-7.0
Temp. (°F)	320°				285°-325°
Time	0810				
Marshall No.	151.1				
Fab. Temp. (°F)	290°				

REMARKS:

Respectfully submitted,

PSI

Information To Build On

PSI • 905 Turnpike Street, Suite H • Canton, MA 02021 • Phone 617/821-2355 • Fax 617/821-6276

PSI Environmental Geotechnical Construction
Consulting • Engineering • Testing

TESTED FOR: Mr. John Fiore
Industri-Plex Site
Remedial Trust
41 Atlantic Ave.
Woburn, MA 01801

PROJECT: Industri-Plex Site
Woburn, MA

DATE: April 30, 1997

OUR REPORT NO.: 446-30047-857

REMARKS: Reported to the subject project for the purpose of performing a bituminous field inspection. The contractor utilized a NEAL paver for placing the mix and two rollers, a 2 ton static roller for breakdown and a 3 ton static finish roller.

Numerous temperature tests were performed and ranged from 285° to 315°F.

In-place density test were performed by nuclear gauge with the results ranging from 96.5-98.3% fo the marshall value.

Note: Marshall value used was 145.8.
144.6 for the binder course.
151.3 for the top course.

Bruce Tibbetts

PSI Environmental Geotechnical Construction
Consulting • Engineering • Testing

TESTED FOR: Mr. John Fiore
Industri-Plex Site
Remedial Trust
41 Atlantic Ave.
Woburn, MA 01801

PROJECT: Industri-Plex Site
Woburn, MA

DATE: May 1, 1997

OUR REPORT NO.: 446-30047-858

REMARKS: Reported to the subject project for the purpose of performing a bituminous field inspection. The contractor utilized a NEAL paver for placing the mix and two rollers, a 2 ton static roler for breakdown and a 3-4 ton vibratory finish roller.

Thickness determination was performed and ranged from 1 1/2" to 2 1/4" before compaction. Numerous temperature tests were performed and ranged from 305° to 325°F.

In place density tests were performed by nuclear method with the results ranging from 95.5 to 96.3% of the marshall value.

Note: Marshal value used was 151.3.

Bruce Tibbetts

Appendix J

APPENDIX J

GEOSYNTHETIC MATERIALS

APPENDIX J.1

GEOTEXTILE

APPENDIX J.1.1

GEOTEXTILE INVENTORY SUMMARY

RTC ALTERNATE COVER
S600 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
NICOLON CORPORATION

Date Shipped	Roll Number	Style	Roll Length	Roll Width
9/15/92	369	S600	900	15
9/15/92	370	S600	900	15
9/15/92	380	S600	900	15
9/15/92	384	S600	900	15
9/15/92	664	S600	900	15
9/15/92	666	S600	900	15
9/15/92	667	S600	900	15
9/15/92	668	S600	900	15
9/15/92	669	S600	900	15
9/15/92	670	S600	900	15
9/15/92	697	S600	900	15
9/15/92	698	S600	900	15
9/15/92	699	S600	900	15
9/15/92	700	S600	900	15
9/15/92	701	S600	900	15
9/15/92	703	S600	900	15
9/15/92	704	S600	900	15
9/15/92	705	S600	900	15
9/15/92	706	S600	900	15
9/15/92	707	S600	900	15
9/15/92	709	S600	900	15
9/15/92	711	S600	900	15
9/15/92	712	S600	900	15
9/15/92	713	S600	900	15
9/15/92	714	S600	900	15
9/15/92	715	S600	900	15
9/15/92	716	S600	900	15
9/15/92	718	S600	900	15
9/15/92	720	S600	900	15
9/15/92	721	S600	900	15
9/15/92	722	S600	900	15
9/15/92	723	S600	900	15
9/15/92	724	S600	900	15
9/15/92	726	S600	900	15
9/15/92	727	S600	900	15
9/15/92	728	S600	900	15
9/15/92	919	S600	900	15
9/15/92	920	S600	900	15
9/15/92	921	S600	900	15
9/15/92	923	S600	900	15
9/15/92	924	S600	900	15
9/15/92	925	S600	900	15
9/15/92	926	S600	900	15

RTC ALTERNATE COVER
S600 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
NICOLON CORPORATION

Date Shipped	Roll Number	Style	Roll Length	Roll Width
9/15/92	927	S600	900	15
9/15/92	928	S600	900	15
9/15/92	929	S600	900	15
9/15/92	935	S600	900	15
9/15/92	936	S600	900	15
9/15/92	937	S600	900	15
9/15/92	939	S600	900	15
9/15/92	940	S600	900	15
9/15/92	941	S600	900	15
9/15/92	942	S600	900	15
9/15/92	944	S600	900	15
9/15/92	945	S600	900	15
9/15/92	948	S600	900	15
9/15/92	949	S600	900	15
9/15/92	950	S600	900	15
9/15/92	951	S600	900	15
9/15/92	952	S600	900	15
9/15/92	955	S600	900	15
9/15/92	957	S600	900	15
9/15/92	958	S600	900	15
11/19/92	1891	S600	900	15
11/19/92	2061	S600	900	15
11/19/92	2062	S600	900	15
11/19/92	2066	S600	900	15
11/19/92	2067	S600	900	15
11/19/92	2071	S600	900	15
11/19/92	2072	S600	900	15
11/19/92	2074	S600	900	15
11/19/92	2075	S600	900	15
11/19/92	2076	S600	900	15
11/19/92	2077	S600	900	15
11/19/92	2087	S600	900	15
12/17/93	27809	S600	900	15
12/17/93	27814	S600	900	15
12/17/93	27820	S600	900	15
12/17/93	27824	S600	900	15
12/17/93	27830	S600	900	15
12/17/93	27831	S600	900	15
12/17/93	27834	S600	900	15
12/17/93	27846	S600	900	15
12/17/93	27849	S600	900	15
12/17/93	27850	S600	900	15
12/17/93	27854	S600	900	15

RTC ALTERNATE COVER
S600 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
NICOLON CORPORATION

Date Shipped	Roll Number	Style	Roll Length	Roll Width
12/17/93	27857	S600	900	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
4/29/94	4500782	TS650	360	15
4/29/94	4500794	TS650	360	15
4/29/94	4500795	TS650	360	15
4/29/94	4500797	TS650	360	15
4/29/94	4500798	TS650	360	15
4/29/94	4500808	TS650	360	15
4/29/94	4500811	TS650	360	15
4/29/94	4500812	TS650	360	15
4/29/94	4500815	TS650	360	15
4/29/94	4500817	TS650	360	15
4/29/94	4500825	TS650	360	15
4/29/94	4500833	TS650	360	15
4/29/94	4500834	TS650	360	15
4/29/94	4500835	TS650	360	15
4/29/94	4500836	TS650	360	15
4/29/94	4500837	TS650	360	15
4/29/94	4500838	TS650	360	15
4/29/94	4500839	TS650	360	15
4/29/94	4500840	TS650	360	15
4/29/94	4500841	TS650	360	15
4/29/94	4500843	TS650	360	15
4/29/94	4500844	TS650	360	15
4/29/94	4500845	TS650	360	15
4/29/94	4500850	TS650	360	15
4/29/94	4500852	TS650	360	15
4/29/94	4500861	TS650	360	15
4/29/94	4500867	TS650	360	15
4/29/94	4500868	TS650	360	15
4/29/94	4500869	TS650	360	15
4/29/94	4500870	TS650	360	15
4/29/94	4500871	TS650	360	15
4/29/94	4500873	TS650	360	15
4/29/94	4500874	TS650	360	15
4/29/94	4500875	TS650	360	15
4/29/94	4500877	TS650	360	15
4/29/94	4500879	TS650	360	15
4/29/94	4500881	TS650	360	15
4/29/94	4500882	TS650	360	15
4/29/94	4500883	TS650	360	15
4/29/94	4500884	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
4/29/94	4500885	TS650	360	15
4/29/94	4500886	TS650	360	15
4/29/94	4500887	TS650	360	15
4/29/94	4500889	TS650	360	15
4/29/94	4500890	TS650	360	15
4/29/94	4500891	TS650	360	15
4/29/94	4500892	TS650	360	15
4/29/94	4500896	TS650	360	15
4/29/94	4500899	TS650	360	15
4/29/94	4500900	TS650	360	15
4/29/94	4500901	TS650	360	15
4/29/94	4500902	TS650	360	15
4/29/94	4500903	TS650	360	15
4/29/94	4500905	TS650	360	15
4/29/94	4500908	TS650	360	15
4/29/94	4500910	TS650	360	15
4/29/94	4500911	TS650	360	15
4/29/94	4500914	TS650	360	15
4/29/94	4500915	TS650	360	15
4/29/94	4500916	TS650	360	15
4/29/94	4500917	TS650	360	15
4/29/94	4500918	TS650	360	15
4/29/94	4500919	TS650	360	15
4/29/94	4500921	TS650	360	15
4/29/94	4500922	TS650	360	15
4/29/94	4500923	TS650	360	15
4/29/94	4500925	TS650	360	15
4/29/94	4500926	TS650	360	15
4/29/94	4500927	TS650	360	15
4/29/94	4500929	TS650	360	15
4/29/94	4500930	TS650	360	15
4/29/94	4500931	TS650	360	15
4/29/94	4500932	TS650	360	15
4/29/94	4500933	TS650	360	15
4/29/94	4500934	TS650	360	15
4/29/94	4500935	TS650	360	15
4/29/94	4500936	TS650	360	15
4/29/94	4500937	TS650	360	15
4/29/94	4500938	TS650	360	15
4/29/94	4500941	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
4/29/94	4500942	TS650	360	15
4/29/94	4500947	TS650	360	15
4/29/94	4500948	TS650	360	15
4/29/94	4500949	TS650	360	15
4/29/94	4500950	TS650	360	15
4/29/94	4500951	TS650	360	15
4/29/94	4500952	TS650	360	15
4/29/94	4500953	TS650	360	15
4/29/94	4500954	TS650	360	15
4/29/94	4500955	TS650	360	15
4/29/94	4500957	TS650	360	15
4/29/94	4500964	TS650	360	15
4/29/94	4500974	TS650	360	15
4/29/94	4500984	TS650	360	15
4/29/94	4500986	TS650	360	15
4/29/94	4500999	TS650	360	15
4/29/94	4501015	TS650	360	15
4/29/94	4501022	TS650	360	15
4/29/94	4501032	TS650	360	15
4/29/94	4501041	TS650	360	15
4/29/94	4501050	TS650	360	15
4/29/94	4501055	TS650	360	15
4/29/94	4501060	TS650	360	15
4/29/94	4501066	TS650	360	15
4/29/94	4501081	TS650	360	15
4/29/94	4501095	TS650	360	15
4/29/94	4501097	TS650	360	15
4/29/94	4501122	TS650	360	15
4/29/94	4501138	TS650	360	15
4/29/94	4501148	TS650	360	15
4/29/94	4501150	TS650	360	15
4/29/94	4501151	TS650	360	15
4/29/94	4501168	TS650	360	15
4/29/94	4501186	TS650	360	15
5/6/94	4501192	TS650	360	15
4/29/94	4501232	TS650	360	15
4/29/94	4501234	TS650	360	15
4/29/94	4501239	TS650	360	15
4/29/94	4501249	TS650	360	15
4/29/94	4501267	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
4/29/94	4501282	TS650	360	15
4/29/94	4501285	TS650	360	15
4/29/94	4501289	TS650	360	15
4/29/94	4501290	TS650	360	15
4/29/94	4501291	TS650	360	15
4/29/94	4501292	TS650	360	15
4/29/94	4501296	TS650	360	15
4/29/94	4501321	TS650	360	15
4/29/94	4501325	TS650	360	15
4/29/94	4501332	TS650	360	15
4/29/94	4501341	TS650	360	15
4/29/94	4501353	TS650	360	15
4/29/94	4501360	TS650	360	15
4/29/94	4501386	TS650	360	15
4/29/94	4501389	TS650	360	15
5/6/94	4501392	TS650	360	15
5/6/94	4501393	TS650	360	15
5/6/94	4501400	TS650	360	15
5/6/94	4501401	TS650	360	15
5/6/94	4501402	TS650	360	15
4/29/94	4501404	TS650	360	15
5/6/94	4501404	TS650	360	15
5/6/94	4501409	TS650	360	15
5/6/94	4501421	TS650	360	15
4/29/94	4501422	TS650	360	15
5/6/94	4501422	TS650	360	15
5/6/94	4501425	TS650	360	15
5/6/94	4501426	TS650	360	15
5/6/94	4501430	TS650	360	15
5/6/94	4501431	TS650	360	15
5/6/94	4501432	TS650	360	15
5/6/94	4501433	TS650	360	15
4/29/94	4501439	TS650	360	15
4/29/94	4501440	TS650	360	15
4/29/94	4501448	TS650	360	15
5/6/94	4501457	TS650	360	15
5/6/94	4501459	TS650	360	15
5/6/94	4501461	TS650	360	15
5/6/94	4501463	TS650	360	15
5/6/94	4501464	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
5/6/94	4501465	TS650	360	15
4/29/94	4501466	TS650	360	15
5/6/94	4501466	TS650	360	15
5/6/94	4501467	TS650	360	15
5/6/94	4501468	TS650	360	15
5/6/94	4501470	TS650	360	15
5/6/94	4501471	TS650	360	15
5/6/94	4501472	TS650	360	15
5/6/94	4501473	TS650	360	15
5/6/94	4501474	TS650	360	15
5/6/94	4501475	TS650	360	15
5/6/94	4501476	TS650	360	15
5/6/94	4501477	TS650	360	15
5/6/94	4501478	TS650	360	15
5/6/94	4501479	TS650	360	15
5/6/94	4501480	TS650	360	15
5/6/94	4501481	TS650	360	15
5/6/94	4501485	TS650	360	15
5/6/94	4501486	TS650	360	15
4/29/94	4501489	TS650	360	15
5/6/94	4501489	TS650	360	15
5/6/94	4501490	TS650	360	15
5/6/94	4501491	TS650	360	15
5/6/94	4501492	TS650	360	15
5/6/94	4501493	TS650	360	15
5/6/94	4501494	TS650	360	15
5/6/94	4501495	TS650	360	15
5/6/94	4501497	TS650	360	15
4/29/94	4501501	TS650	360	15
4/29/94	4501503	TS650	360	15
4/29/94	4501507	TS650	360	15
4/29/94	4501513	TS650	360	15
4/29/94	4501514	TS650	360	15
4/29/94	4501528	TS650	360	15
4/29/94	4501533	TS650	360	15
4/29/94	4501536	TS650	360	15
4/29/94	4501543	TS650	360	15
4/29/94	4501546	TS650	360	15
4/29/94	4501552	TS650	360	15
4/29/94	4501554	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
4/29/94	4501555	TS650	360	15
4/29/94	4501557	TS650	360	15
5/6/94	4501557	TS650	360	15
5/6/94	4501558	TS650	360	15
5/6/94	4501559	TS650	360	15
5/6/94	4501560	TS650	360	15
4/29/94	4501562	TS650	360	15
4/29/94	4501567	TS650	360	15
4/29/94	4501576	TS650	360	15
4/29/94	4501589	TS650	360	15
4/29/94	4501598	TS650	360	15
4/29/94	4501606	TS650	360	15
4/29/94	4501613	TS650	360	15
4/29/94	4501618	TS650	360	15
4/29/94	4501625	TS650	360	15
4/29/94	4501629	TS650	360	15
3/11/94	4506397	TS650	360	15
4/25/94	4506397	TS650	300	15
3/11/94	4506399	TS650	360	15
3/11/94	4506400	TS650	360	15
4/25/94	4506400	TS650	360	15
3/11/94	4506401	TS650	360	15
3/11/94	4506402	TS650	360	15
3/11/94	4506403	TS650	360	15
4/25/94	4506407	TS650	360	15
4/25/94	4506415	TS650	360	15
3/11/94	4506417	TS650	360	15
4/25/94	4506417	TS650	360	15
3/11/94	4506418	TS650	360	15
3/11/94	4506419	TS650	360	15
3/11/94	4506420	TS650	360	15
3/11/94	4506421	TS650	360	15
3/11/94	4506422	TS650	360	15
3/11/94	4506423	TS650	360	15
3/11/94	4506424	TS650	360	15
3/11/94	4506426	TS650	360	15
3/11/94	4506427	TS650	360	15
3/11/94	4506429	TS650	360	15
3/11/94	4506430	TS650	360	15
3/11/94	4506431	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/11/94	4506432	TS650	360	15
3/11/94	4506433	TS650	360	15
4/25/94	4506453	TS650	360	15
4/25/94	4506455	TS650	360	15
4/25/94	4506457	TS650	360	15
4/25/94	4506502	TS650	360	15
4/25/94	4506504	TS650	360	15
4/25/94	4506648	TS650	360	15
4/25/94	4506682	TS650	360	15
4/25/94	4506683	TS650	360	15
4/25/94	4506686	TS650	360	15
4/25/94	4506690	TS650	360	15
4/25/94	4506691	TS650	360	15
4/25/94	4506692	TS650	360	15
4/25/94	4506697	TS650	360	15
4/25/94	4506708	TS650	360	15
4/25/94	4506714	TS650	360	15
4/25/94	4506721	TS650	360	15
3/11/94	4506729	TS650	360	15
3/11/94	4506731	TS650	360	15
3/11/94	4506733	TS650	360	15
3/11/94	4506734	TS650	360	15
3/11/94	4506735	TS650	360	15
3/11/94	4506739	TS650	360	15
4/25/94	4506739	TS650	360	15
3/11/94	4506741	TS650	360	15
3/11/94	4506742	TS650	360	15
3/11/94	4506743	TS650	360	15
3/11/94	4506745	TS650	360	15
3/11/94	4506747	TS650	360	15
3/11/94	4506748	TS650	360	15
3/11/94	4506749	TS650	360	15
3/11/94	4506750	TS650	360	15
3/11/94	4506759	TS650	360	15
3/11/94	4506760	TS650	360	15
3/11/94	4506761	TS650	360	15
3/11/94	4506762	TS650	360	15
3/11/94	4506763	TS650	360	15
3/11/94	4506764	TS650	360	15
3/11/94	4506767	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/11/94	4506768	TS650	360	15
3/11/94	4506769	TS650	360	15
4/25/94	4506769	TS650	360	15
3/11/94	4506770	TS650	360	15
3/11/94	4506771	TS650	360	15
3/11/94	4506772	TS650	360	15
3/11/94	4506774	TS650	360	15
3/11/94	4506775	TS650	360	15
3/11/94	4506776	TS650	360	15
3/11/94	4506777	TS650	360	15
3/11/94	4506778	TS650	360	15
3/11/94	4506780	TS650	360	15
4/25/94	4506780	TS650	360	15
3/11/94	4506781	TS650	360	15
3/11/94	4506782	TS650	360	15
3/11/94	4506783	TS650	360	15
3/11/94	4506784	TS650	360	15
3/11/94	4506785	TS650	360	15
3/11/94	4506786	TS650	360	15
3/11/94	4506787	TS650	360	15
4/25/94	4506787	TS650	360	15
3/11/94	4506788	TS650	360	15
3/11/94	4506789	TS650	360	15
3/11/94	4506792	TS650	360	15
3/11/94	4506793	TS650	360	15
3/11/94	4506794	TS650	360	15
3/11/94	4506796	TS650	360	15
4/25/94	4506797	TS650	360	15
4/25/94	4506804	TS650	360	15
4/25/94	4506805	TS650	360	15
4/25/94	4506806	TS650	360	15
4/25/94	4506811	TS650	360	15
3/11/94	4506813	TS650	360	15
3/11/94	4506814	TS650	360	15
3/11/94	4506815	TS650	360	15
3/11/94	4506816	TS650	360	15
4/25/94	4506821	TS650	360	15
3/11/94	4506822	TS650	360	15
3/11/94	4506823	TS650	360	15
3/11/94	4506824	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/11/94	4506825	TS650	360	15
3/11/94	4506832	TS650	360	15
4/25/94	4506833	TS650	360	15
3/11/94	4506834	TS650	360	15
3/11/94	4506835	TS650	360	15
3/11/94	4506837	TS650	360	15
3/11/94	4506838	TS650	360	15
3/11/94	4506839	TS650	360	15
3/11/94	4506840	TS650	360	15
3/11/94	4506841	TS650	360	15
3/11/94	4506842	TS650	360	15
3/11/94	4506843	TS650	360	15
3/11/94	4506844	TS650	360	15
3/11/94	4506845	TS650	360	15
3/11/94	4506848	TS650	360	15
3/11/94	4506849	TS650	360	15
4/25/94	4506849	TS650	360	15
3/11/94	4506850	TS650	360	15
3/11/94	4506851	TS650	360	15
3/11/94	4506852	TS650	360	15
3/11/94	4506856	TS650	360	15
3/11/94	4506857	TS650	360	15
4/25/94	4506857	TS650	360	15
3/11/94	4506858	TS650	360	15
3/11/94	4506859	TS650	360	15
3/11/94	4506860	TS650	360	15
3/11/94	4506862	TS650	360	15
4/25/94	4506862	TS650	360	15
3/11/94	4506863	TS650	360	15
3/11/94	4506864	TS650	360	15
3/11/94	4506865	TS650	360	15
3/11/94	4506866	TS650	360	15
3/11/94	4506867	TS650	360	15
3/11/94	4506868	TS650	360	15
4/25/94	4506868	TS650	360	15
3/11/94	4506869	TS650	360	15
3/11/94	4506870	TS650	360	15
3/11/94	4506877	TS650	360	15
3/11/94	4506878	TS650	360	15
4/25/94	4506878	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/11/94	4506879	TS650	360	15
3/11/94	4506880	TS650	360	15
3/11/94	4506881	TS650	360	15
3/11/94	4506882	TS650	360	15
3/11/94	4506883	TS650	360	15
3/11/94	4506884	TS650	360	15
3/11/94	4506885	TS650	360	15
3/11/94	4506886	TS650	360	15
4/25/94	4506886	TS650	360	15
3/11/94	4506887	TS650	360	15
4/25/94	4506889	TS650	360	15
3/11/94	4506891	TS650	360	15
4/25/94	4506891	TS650	360	15
3/11/94	4506892	TS650	360	15
3/11/94	4506894	TS650	360	15
4/25/94	4506896	TS650	360	15
3/11/94	4506897	TS650	360	15
4/25/94	4506897	TS650	360	15
3/11/94	4506898	TS650	360	15
3/11/94	4506899	TS650	360	15
3/11/94	4506900	TS650	360	15
3/11/94	4506901	TS650	360	15
3/11/94	4506902	TS650	360	15
3/11/94	4506903	TS650	360	15
3/11/94	4506904	TS650	360	15
3/11/94	4506905	TS650	360	15
3/11/94	4506906	TS650	360	15
4/25/94	4506906	TS650	360	15
3/11/94	4506907	TS650	360	15
3/11/94	4506908	TS650	360	15
3/11/94	4506909	TS650	360	15
3/11/94	4506910	TS650	360	15
3/11/94	4506911	TS650	360	15
3/11/94	4506912	TS650	360	15
3/11/94	4506913	TS650	360	15
4/25/94	4506913	TS650	360	15
3/11/94	4506914	TS650	360	15
3/11/94	4506915	TS650	360	15
3/11/94	4506916	TS650	360	15
3/11/94	4506917	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/11/94	4506918	TS650	360	15
3/11/94	4506919	TS650	360	15
3/11/94	4506921	TS650	360	15
3/11/94	4506922	TS650	360	15
3/11/94	4506923	TS650	360	15
3/11/94	4506924	TS650	360	15
3/11/94	4506925	TS650	360	15
4/25/94	4506925	TS650	360	15
3/11/94	4506926	TS650	360	15
3/11/94	4506927	TS650	360	15
3/11/94	4506928	TS650	360	15
3/11/94	4506929	TS650	360	15
4/25/94	4506929	TS650	360	15
3/11/94	4506930	TS650	360	15
3/11/94	4506931	TS650	360	15
3/11/94	4506932	TS650	360	15
3/11/94	4506933	TS650	360	15
3/11/94	4506935	TS650	360	15
4/25/94	4506935	TS650	360	15
3/11/94	4506936	TS650	360	15
3/11/94	4506938	TS650	360	15
3/11/94	4506939	TS650	360	15
3/11/94	4506940	TS650	360	15
3/11/94	4506941	TS650	360	15
3/11/94	4506942	TS650	360	15
3/11/94	4506943	TS650	360	15
4/25/94	4506943	TS650	360	15
3/11/94	4506945	TS650	360	15
3/11/94	4506946	TS650	360	15
3/11/94	4506947	TS650	360	15
3/11/94	4506948	TS650	360	15
3/11/94	4506949	TS650	360	15
3/11/94	4506951	TS650	360	15
3/11/94	4506952	TS650	360	15
3/11/94	4506953	TS650	360	15
3/11/94	4506954	TS650	360	15
3/11/94	4506955	TS650	360	15
3/11/94	4506956	TS650	360	15
3/11/94	4506957	TS650	360	15
3/11/94	4506958	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/11/94	4506959	TS650	360	15
3/11/94	4506960	TS650	360	15
3/11/94	4506961	TS650	360	15
3/11/94	4506962	TS650	360	15
4/25/94	4506962	TS650	360	15
3/11/94	4506963	TS650	360	15
3/11/94	4506964	TS650	360	15
3/11/94	4506966	TS650	360	15
3/11/94	4506967	TS650	360	15
3/11/94	4506968	TS650	360	15
3/11/94	4506969	TS650	360	15
3/11/94	4506970	TS650	360	15
3/11/94	4506971	TS650	360	15
3/11/94	4506972	TS650	360	15
3/11/94	4506973	TS650	360	15
3/11/94	4506974	TS650	360	15
3/11/94	4506975	TS650	360	15
4/25/94	4506976	TS650	360	15
3/11/94	4506977	TS650	360	15
3/11/94	4506978	TS650	360	15
3/11/94	4506979	TS650	360	15
3/11/94	4506980	TS650	360	15
3/11/94	4506981	TS650	360	15
4/25/94	4506981	TS650	360	15
3/11/94	4506982	TS650	360	15
3/11/94	4506983	TS650	360	15
3/11/94	4506984	TS650	360	15
3/11/94	4506985	TS650	360	15
3/11/94	4506986	TS650	360	15
4/25/94	4506986	TS650	360	15
3/11/94	4506987	TS650	360	15
3/11/94	4506988	TS650	360	15
3/11/94	4506989	TS650	360	15
3/11/94	4506990	TS650	360	15
3/11/94	4506991	TS650	360	15
3/11/94	4506992	TS650	360	15
3/11/94	4506993	TS650	360	15
4/25/94	4506993	TS650	360	15
3/11/94	4506994	TS650	360	15
3/11/94	4506995	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/11/94	4506996	TS650	360	15
3/11/94	4506997	TS650	360	15
3/11/94	4506998	TS650	360	15
3/11/94	4506999	TS650	360	15
3/11/94	4507000	TS650	360	15
4/25/94	4507001	TS650	360	15
3/11/94	4507002	TS650	360	15
4/25/94	4507002	TS650	360	15
3/11/94	4507003	TS650	360	15
4/25/94	4507022	TS650	360	15
3/11/94	4507028	TS650	360	15
4/25/94	4507028	TS650	360	15
3/11/94	4507029	TS650	360	15
3/11/94	4507031	TS650	360	15
3/11/94	4507033	TS650	360	15
3/11/94	4507034	TS650	360	15
3/11/94	4507035	TS650	360	15
3/11/94	4507036	TS650	360	15
3/11/94	4507037	TS650	360	15
4/25/94	4507039	TS650	360	15
4/25/94	4507040	TS650	360	15
4/25/94	4507041	TS650	360	15
4/25/94	4507043	TS650	360	15
4/25/94	4507046	TS650	360	15
4/25/94	4507047	TS650	360	15
4/25/94	4507052	TS650	360	15
4/25/94	4507059	TS650	360	15
3/11/94	4507060	TS650	360	15
4/25/94	4507060	TS650	360	15
4/25/94	4507064	TS650	360	15
4/25/94	4507064	TS650	360	15
4/25/94	4507065	TS650	360	15
3/11/94	4507066	TS650	360	15
4/25/94	4507067	TS650	360	15
4/25/94	4507068	TS650	360	15
4/25/94	4507072	TS650	360	15
4/25/94	4507077	TS650	360	15
3/11/94	4507088	TS650	360	15
4/25/94	4507088	TS650	360	15
3/11/94	4507089	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
4/25/94	4507089	TS650	360	15
3/11/94	4507090	TS650	360	15
3/11/94	4507091	TS650	360	15
3/11/94	4507092	TS650	360	15
3/11/94	4507093	TS650	360	15
3/11/94	4507094	TS650	360	15
4/25/94	4507095	TS650	360	15
4/25/94	4507096	TS650	360	15
4/25/94	4507097	TS650	360	15
4/25/94	4507104	TS650	360	15
3/11/94	4507107	TS650	360	15
4/25/94	4507107	TS650	360	15
3/11/94	4507108	TS650	360	15
3/11/94	4507111	TS650	360	15
3/11/94	4507112	TS650	360	15
3/11/94	4507113	TS650	360	15
4/25/94	4507115	TS650	360	15
4/25/94	4507116	TS650	360	15
4/25/94	4507117	TS650	360	15
4/25/94	4507118	TS650	360	15
4/25/94	4507120	TS650	360	15
4/25/94	4507121	TS650	360	15
4/25/94	4507122	TS650	360	15
4/25/94	4507124	TS650	360	15
4/25/94	4507125	TS650	360	15
4/25/94	4507125	TS650	360	15
4/25/94	4507126	TS650	360	15
4/25/94	4507127	TS650	360	15
4/25/94	4507128	TS650	360	15
4/25/94	4507129	TS650	360	15
4/25/94	4507130	TS650	360	15
4/25/94	4507131	TS650	360	15
4/25/94	4507132	TS650	360	15
4/25/94	4507133	TS650	360	15
4/25/94	4507134	TS650	360	15
4/25/94	4507135	TS650	360	15
4/25/94	4507136	TS650	360	15
4/25/94	4507138	TS650	360	15
4/25/94	4507139	TS650	360	15
4/25/94	4507141	TS650	360	15

RTC ALTERNATE COVER
TS650 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
4/25/94	4507142	TS650	360	15
4/25/94	4507143	TS650	360	15
4/25/94	4507144	TS650	360	15
4/25/94	4507145	TS650	360	15
4/25/94	4507146	TS650	360	15
4/25/94	4507147	TS650	360	15
4/25/94	4507148	TS650	360	15
4/25/94	4507149	TS650	360	15
4/25/94	4507150	TS650	360	15
4/25/94	4507151	TS650	360	15
4/25/94	4507152	TS650	360	15
4/25/94	4507153	TS650	360	15
4/25/94	4507154	TS650	360	15
4/25/94	4507155	TS650	360	15
4/25/94	4507156	TS650	360	15
4/25/94	4507157	TS650	360	15
4/25/94	4507158	TS650	360	15
4/25/94	4507159	TS650	360	15
4/25/94	4507160	TS650	360	15

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5500815	TS1000	300	13
3/31/95	5508735	TS1000	300	13
3/31/95	5508736	TS1000	300	13
3/31/95	5508737	TS1000	300	13
3/31/95	5508738	TS1000	300	13
3/31/95	5508740	TS1000	300	13
3/31/95	5508741	TS1000	300	13
3/31/95	5508742	TS1000	300	13
3/31/95	5508743	TS1000	300	13
3/31/95	5508744	TS1000	300	13
3/31/95	5508745	TS1000	300	13
3/31/95	5508746	TS1000	300	13
3/31/95	5508747	TS1000	300	13
3/31/95	5508748	TS1000	300	13
3/31/95	5508749	TS1000	300	13
3/31/95	5508750	TS1000	300	13
3/31/95	5508751	TS1000	300	13
3/31/95	5508752	TS1000	300	13
3/31/95	5508753	TS1000	300	13
3/31/95	5508754	TS1000	300	13
3/31/95	5508755	TS1000	300	13
3/31/95	5508756	TS1000	300	13
3/31/95	5508757	TS1000	300	13
3/31/95	5508758	TS1000	300	13
3/31/95	5508759	TS1000	300	13
3/31/95	5508760	TS1000	300	13
3/31/95	5508761	TS1000	300	13
3/31/95	5508762	TS1000	300	13
3/31/95	5508763	TS1000	300	13
3/31/95	5508765	TS1000	300	13
3/31/95	5508766	TS1000	300	13
3/31/95	5508768	TS1000	300	13
3/31/95	5508769	TS1000	300	13
3/31/95	5508770	TS1000	300	13
3/31/95	5508771	TS1000	300	13
3/31/95	5508772	TS1000	300	13
3/31/95	5508773	TS1000	300	13
3/31/95	5508774	TS1000	300	13
3/31/95	5508776	TS1000	300	13
3/31/95	5508777	TS1000	300	13

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5508778	TS1000	300	13
3/31/95	5508779	TS1000	300	13
3/31/95	5508780	TS1000	300	13
3/31/95	5508781	TS1000	300	13
3/31/95	5508782	TS1000	300	13
3/31/95	5508784	TS1000	300	13
3/31/95	5508785	TS1000	300	13
3/31/95	5508786	TS1000	300	13
3/31/95	5508787	TS1000	300	13
3/31/95	5508789	TS1000	300	13
3/31/95	5508790	TS1000	300	13
3/31/95	5508791	TS1000	300	13
3/31/95	5508792	TS1000	300	13
3/31/95	5508793	TS1000	300	13
3/31/95	5508794	TS1000	300	13
3/31/95	5508795	TS1000	300	13
3/31/95	5508796	TS1000	300	13
3/31/95	5508797	TS1000	300	13
3/31/95	5508799	TS1000	300	13
3/31/95	5508800	TS1000	300	13
3/31/95	5508801	TS1000	300	13
3/31/95	5508802	TS1000	300	13
3/31/95	5508803	TS1000	300	13
3/31/95	5508804	TS1000	300	13
3/31/95	5508816	TS1000	300	13
3/31/95	5508818	TS1000	300	13
3/31/95	5508819	TS1000	300	13
3/31/95	5508820	TS1000	300	13
3/31/95	5508821	TS1000	300	13
3/31/95	5508822	TS1000	300	13
3/31/95	5508823	TS1000	300	13
3/31/95	5508824	TS1000	300	13
3/31/95	5508833	TS1000	300	13
3/31/95	5508834	TS1000	300	13
3/31/95	5508835	TS1000	300	13
3/31/95	5508838	TS1000	300	13
3/31/95	5508839	TS1000	300	13
3/31/95	5508840	TS1000	300	13
3/31/95	5508845	TS1000	300	13
3/31/95	5508846	TS1000	300	13

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5508850	TS1000	300	13
3/31/95	5508856	TS1000	300	13
3/31/95	5508864	TS1000	300	13
3/31/95	5508865	TS1000	300	13
3/31/95	5508866	TS1000	300	13
3/31/95	5508867	TS1000	300	13
3/31/95	5508868	TS1000	300	13
3/31/95	5508869	TS1000	300	13
3/31/95	5508870	TS1000	300	13
3/31/95	5508871	TS1000	300	13
3/31/95	5508872	TS1000	300	13
3/31/95	5508873	TS1000	300	13
3/31/95	5508874	TS1000	300	13
3/31/95	5508875	TS1000	300	13
3/31/95	5508876	TS1000	300	13
3/31/95	5508882	TS1000	300	13
3/31/95	5508892	TS1000	300	13
3/31/95	5508909	TS1000	300	13
3/31/95	5508910	TS1000	300	13
3/31/95	5508911	TS1000	300	13
7/26/95	5508912	TS1000	300	13
3/31/95	5508914	TS1000	300	13
3/31/95	5508916	TS1000	300	13
7/26/95	5508917	TS1000	300	13
7/26/95	5508918	TS1000	300	13
3/31/95	5508919	TS1000	300	13
3/31/95	5508920	TS1000	300	13
3/31/95	5508921	TS1000	300	13
3/31/95	5508922	TS1000	300	13
3/31/95	5508923	TS1000	300	13
3/31/95	5508924	TS1000	300	13
3/31/95	5508925	TS1000	300	13
7/26/95	5508926	TS1000	300	13
3/31/95	5508927	TS1000	300	13
3/31/95	5508929	TS1000	300	13
7/26/95	5508930	TS1000	300	13
7/26/95	5508931	TS1000	300	13
7/26/95	5508932	TS1000	300	13
3/31/95	5508933	TS1000	300	13
3/31/95	5508934	TS1000	300	13

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5508935	TS1000	300	13
3/31/95	5508936	TS1000	300	13
3/31/95	5508937	TS1000	300	13
3/31/95	5508938	TS1000	300	13
3/31/95	5508939	TS1000	300	13
3/31/95	5508940	TS1000	300	13
3/31/95	5508941	TS1000	300	13
3/31/95	5508942	TS1000	300	13
3/31/95	5508943	TS1000	300	13
3/31/95	5508944	TS1000	300	13
3/31/95	5508945	TS1000	300	13
3/31/95	5508946	TS1000	300	13
3/31/95	5508947	TS1000	300	13
3/31/95	5508948	TS1000	300	13
3/31/95	5508949	TS1000	300	13
3/31/95	5508950	TS1000	300	13
3/31/95	5508951	TS1000	300	13
3/31/95	5508952	TS1000	300	13
3/31/95	5508953	TS1000	300	13
3/31/95	5508954	TS1000	300	13
3/31/95	5508955	TS1000	300	13
3/31/95	5508956	TS1000	300	13
3/31/95	5508957	TS1000	300	13
3/31/95	5508958	TS1000	300	13
3/31/95	5508959	TS1000	300	13
3/31/95	5508960	TS1000	300	13
3/31/95	5508961	TS1000	300	13
3/31/95	5508962	TS1000	300	13
3/31/95	5508968	TS1000	300	13
7/26/95	5508969	TS1000	300	13
7/26/95	5508970	TS1000	300	13
7/26/95	5508971	TS1000	300	13
7/26/95	5508972	TS1000	300	13
3/31/95	5508973	TS1000	300	13
7/26/95	5508974	TS1000	300	13
7/26/95	5508975	TS1000	300	13
7/26/95	5508976	TS1000	300	13
3/31/95	5508977	TS1000	300	13
3/31/95	5508979	TS1000	300	13
3/31/95	5508980	TS1000	300	13

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5508981	TS1000	300	13
3/31/95	5508982	TS1000	300	13
7/26/95	5508983	TS1000	300	13
3/31/95	5508985	TS1000	300	13
3/31/95	5508986	TS1000	300	13
3/31/95	5508988	TS1000	300	13
7/26/95	5508989	TS1000	300	13
3/31/95	5508990	TS1000	300	13
3/31/95	5508991	TS1000	300	13
3/31/95	5508992	TS1000	300	13
3/31/95	5508993	TS1000	300	13
3/31/95	5508994	TS1000	300	13
3/31/95	5508995	TS1000	300	13
3/31/95	5508996	TS1000	300	13
3/31/95	5508997	TS1000	300	13
3/31/95	5508999	TS1000	300	13
3/31/95	5509000	TS1000	300	13
7/26/95	5509001	TS1000	300	13
3/31/95	5509002	TS1000	300	13
3/31/95	5509003	TS1000	300	13
3/31/95	5509004	TS1000	300	13
3/31/95	5509005	TS1000	300	13
7/26/95	5509006	TS1000	300	13
3/31/95	5509007	TS1000	300	13
3/31/95	5509008	TS1000	300	13
7/26/95	5509009	TS1000	300	13
3/31/95	5509010	TS1000	300	13
7/26/95	5509011	TS1000	300	13
7/26/95	5509012	TS1000	300	13
3/31/95	5509013	TS1000	300	13
3/31/95	5509014	TS1000	300	13
3/31/95	5509015	TS1000	300	13
7/26/95	5509016	TS1000	300	13
3/31/95	5509017	TS1000	300	13
3/31/95	5509018	TS1000	300	13
3/31/95	5509019	TS1000	300	13
3/31/95	5509020	TS1000	300	13
3/31/95	5509021	TS1000	300	13
3/31/95	5509022	TS1000	300	13
3/31/95	5509023	TS1000	300	13

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5509024	TS1000	300	13
3/31/95	5509025	TS1000	300	13
7/26/95	5509027	TS1000	300	13
7/26/95	5509028	TS1000	300	13
7/26/95	5509029	TS1000	300	13
7/26/95	5509030	TS1000	300	13
3/31/95	5509031	TS1000	300	13
7/26/95	5509032	TS1000	300	13
3/31/95	5509033	TS1000	300	13
7/26/95	5509034	TS1000	300	13
7/26/95	5509035	TS1000	300	13
7/26/95	5509036	TS1000	300	13
7/26/95	5509037	TS1000	300	13
3/31/95	5509038	TS1000	300	13
7/26/95	5509039	TS1000	300	13
7/26/95	5509040	TS1000	300	13
3/31/95	5509042	TS1000	300	13
7/26/95	5509043	TS1000	300	13
7/26/95	5509044	TS1000	300	13
7/26/95	5509045	TS1000	300	13
7/26/95	5509047	TS1000	300	13
7/26/95	5509048	TS1000	300	13
3/31/95	5509049	TS1000	300	13
7/26/95	5509050	TS1000	300	13
7/26/95	5509051	TS1000	300	13
3/31/95	5509052	TS1000	300	13
3/31/95	5509053	TS1000	300	13
3/31/95	5509054	TS1000	300	13
3/31/95	5509055	TS1000	300	13
3/31/95	5509056	TS1000	300	13
3/31/95	5509057	TS1000	300	13
3/31/95	5509058	TS1000	300	13
3/31/95	5509059	TS1000	300	13
3/31/95	5509060	TS1000	300	13
3/31/95	5509061	TS1000	300	13
3/31/95	5509062	TS1000	300	13
3/31/95	5509063	TS1000	300	13
3/31/95	5509064	TS1000	300	13
3/31/95	5509065	TS1000	300	13
3/31/95	5509066	TS1000	300	13

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5509067	TS1000	300	13
3/31/95	5509068	TS1000	300	13
3/31/95	5509069	TS1000	300	13
3/31/95	5509070	TS1000	300	13
3/31/95	5509071	TS1000	300	13
7/26/95	5509072	TS1000	300	13
3/31/95	5509073	TS1000	300	13
3/31/95	5509074	TS1000	300	13
3/31/95	5509075	TS1000	300	13
3/31/95	5509076	TS1000	300	13
3/31/95	5509077	TS1000	300	13
7/26/95	5509078	TS1000	300	13
3/31/95	5509080	TS1000	300	13
3/31/95	5509081	TS1000	300	13
3/31/95	5509082	TS1000	300	13
3/31/95	5509083	TS1000	300	13
7/26/95	5509084	TS1000	300	13
3/31/95	5509085	TS1000	300	13
7/26/95	5509086	TS1000	300	13
3/31/95	5509087	TS1000	300	13
3/31/95	5509088	TS1000	300	13
3/31/95	5509089	TS1000	300	13
3/31/95	5509090	TS1000	300	13
7/26/95	5509091	TS1000	300	13
3/31/95	5509092	TS1000	300	13
3/31/95	5509093	TS1000	300	13
3/31/95	5509094	TS1000	300	13
3/31/95	5509096	TS1000	300	13
3/31/95	5509097	TS1000	300	13
7/26/95	5509098	TS1000	300	13
7/26/95	5509099	TS1000	300	13
3/31/95	5509100	TS1000	300	13
3/31/95	5509101	TS1000	300	13
7/26/95	5509103	TS1000	300	13
7/26/95	5509105	TS1000	300	13
7/26/95	5509107	TS1000	300	13
3/31/95	5509109	TS1000	300	13
3/31/95	5509110	TS1000	300	13
3/31/95	5509111	TS1000	300	13
3/31/95	5509112	TS1000	300	13

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5509113	TS1000	300	13
3/31/95	5509114	TS1000	300	13
3/31/95	5509115	TS1000	300	13
3/31/95	5509116	TS1000	300	13
3/31/95	5509117	TS1000	300	13
3/31/95	5509118	TS1000	300	13
3/31/95	5509119	TS1000	300	13
3/31/95	5509120	TS1000	300	13
3/31/95	5509121	TS1000	300	13
3/31/95	5509122	TS1000	300	13
3/31/95	5509123	TS1000	300	13
3/31/95	5509124	TS1000	300	13
3/31/95	5509125	TS1000	300	13
7/26/95	5509126	TS1000	300	13
3/31/95	5509127	TS1000	300	13
3/31/95	5509128	TS1000	300	13
7/26/95	5509129	TS1000	300	13
7/26/95	5509130	TS1000	300	13
3/31/95	5509131	TS1000	300	13
3/31/95	5509132	TS1000	300	13
3/31/95	5509133	TS1000	300	13
3/31/95	5509134	TS1000	300	13
3/31/95	5509135	TS1000	300	13
3/31/95	5509136	TS1000	300	13
3/31/95	5509138	TS1000	300	13
3/31/95	5509139	TS1000	300	13
3/31/95	5509140	TS1000	300	13
3/31/95	5509141	TS1000	300	13
3/31/95	5509142	TS1000	300	13
3/31/95	5509143	TS1000	300	13
3/31/95	5509144	TS1000	300	13
3/31/95	5509145	TS1000	300	13
3/31/95	5509146	TS1000	300	13
3/31/95	5509147	TS1000	300	13
3/31/95	5509148	TS1000	300	13
3/31/95	5509149	TS1000	300	13
3/31/95	5509151	TS1000	300	13
3/31/95	5509153	TS1000	300	13
3/31/95	5509160	TS1000	300	13
3/31/95	5509171	TS1000	300	13

RTC ALTERNATE COVER
TS1000 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
POLYFELT AMERICAS

Date Shipped	Roll Number	Style	Roll Length	Roll Width
3/31/95	5509176	TS1000	300	13
3/31/95	5509193	TS1000	300	13
3/31/95	5509211	TS1000	300	13
3/31/95	5509229	TS1000	300	13
3/31/95	5509247	TS1000	300	13
3/31/95	5509254	TS1000	300	13
3/31/95	5509255	TS1000	300	13
3/31/95	5509264	TS1000	300	13
3/31/95	5509272	TS1000	300	13
3/31/95	5509290	TS1000	300	13
3/31/95	5509298	TS1000	300	13
3/31/95	5509301	TS1000	300	13
3/31/95	5509303	TS1000	300	13
3/31/95	5509320	TS1000	300	13
3/31/95	5509338	TS1000	300	13
3/31/95	5509350	TS1000	300	13
3/31/95	5509356	TS1000	300	13
3/31/95	5509374	TS1000	300	13
3/31/95	5509380	TS1000	300	13
3/31/95	5509398	TS1000	300	13
3/31/95	5509416	TS1000	300	13
3/31/95	5509421	TS1000	300	13

RTC ALTERNATE COVER
1601 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
SYNTHETIC INDUSTRIES

DATE SHIPPED	ROLL NUMBER	STYLE	ROLL LENGTH (FEET)	ROLL WIDTH (FEET)
9/5/95	4015882A	1601	300	15
9/5/95	4015886A	1601	300	15
9/5/95	4015895A	1601	300	15
9/5/95	4015912A	1601	300	15
9/5/95	4015998A	1601	300	15
9/5/95	4016026A	1601	300	15
9/5/95	4016027A	1601	300	15
9/5/95	4016028A	1601	300	15
9/5/95	4016031A	1601	300	15
9/5/95	4016032A	1601	300	15
9/5/95	4016033A	1601	300	15
9/5/95	4016034A	1601	300	15
9/5/95	4016035A	1601	300	15
9/5/95	4016037A	1601	300	15
9/5/95	4016039A	1601	300	15
9/5/95	4016040A	1601	300	15
9/5/95	4016044A	1601	300	15
9/5/95	4016052A	1601	300	15
9/5/95	4016054A	1601	300	15
9/5/95	4016056A	1601	300	15
9/5/95	4016068A	1601	300	15
9/5/95	4016070A	1601	300	15
9/5/95	4016071A	1601	300	15
9/5/95	4016072A	1601	300	15
9/5/95	4016074A	1601	300	15
9/5/95	4016075A	1601	300	15
9/5/95	4016078A	1601	300	15
9/5/95	4016080A	1601	300	15
9/5/95	4016084A	1601	300	15
9/5/95	4016085A	1601	300	15
9/5/95	4016086A	1601	300	15
9/5/95	4016087A	1601	300	15
9/5/95	4016088A	1601	300	15
9/5/95	4016089A	1601	300	15
9/5/95	4016090A	1601	300	15
9/5/95	4016091A	1601	300	15
9/5/95	4016092A	1601	300	15
9/5/95	4016093A	1601	300	15
9/5/95	4016094A	1601	300	15
9/5/95	4016095A	1601	300	15

RTC ALTERNATE COVER
1601 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
SYNTHETIC INDUSTRIES

DATE SHIPPED	ROLL NUMBER	STYLE	ROLL LENGTH (FEET)	ROLL WIDTH (FEET)
9/5/95	4016096A	1601	300	15
9/5/95	4016097A	1601	300	15
9/5/95	4016098A	1601	300	15
9/5/95	4016099A	1601	300	15
9/5/95	4016100A	1601	300	15
9/5/95	4016101A	1601	300	15
9/5/95	4016102A	1601	300	15
9/5/95	4016103A	1601	300	15
9/5/95	4016104A	1601	300	15
9/5/95	4016105A	1601	300	15
9/5/95	4016106A	1601	300	15
9/5/95	4016107A	1601	300	15
9/5/95	4016108A	1601	300	15
9/5/95	4016110A	1601	300	15
9/5/95	4016111A	1601	300	15
9/5/95	4016112A	1601	300	15
9/5/95	4016113A	1601	300	15
9/5/95	4016114A	1601	300	15
9/5/95	4016117A	1601	300	15
9/5/95	4016118A	1601	300	15
9/5/95	4016119A	1601	300	15
9/5/95	4016121A	1601	300	15
9/5/95	4016123A	1601	300	15
9/5/95	4016124A	1601	300	15
9/5/95	4016125A	1601	300	15
9/5/95	4016126A	1601	300	15
9/5/95	4016127A	1601	300	15
9/5/95	4016128A	1601	300	15
9/5/95	4016129A	1601	300	15
9/5/95	4016130A	1601	300	15
9/5/95	4016131A	1601	300	15
9/5/95	4016132A	1601	300	15
9/5/95	4016134A	1601	300	15
9/5/95	4016135A	1601	300	15
9/5/95	4016137A	1601	300	15
9/5/95	4016138A	1601	300	15
9/5/95	4016139A	1601	300	15
9/5/95	4016140A	1601	300	15
9/5/95	4016141A	1601	300	15
9/5/95	4016143A	1601	300	15

RTC ALTERNATE COVER
1601 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
SYNTHETIC INDUSTRIES

DATE SHIPPED	ROLL NUMBER	STYLE	ROLL LENGTH (FEET)	ROLL WIDTH (FEET)
9/5/95	4016144A	1601	300	15
9/5/95	4016146A	1601	300	15
9/5/95	4016147A	1601	300	15
9/5/95	4016148A	1601	300	15
9/5/95	4016149A	1601	300	15
9/5/95	4016150A	1601	300	15
9/5/95	4016151A	1601	300	15
9/5/95	4016152A	1601	300	15
9/5/95	4016153A	1601	300	15
9/5/95	4016155A	1601	300	15
9/5/95	4016156A	1601	300	15
9/5/95	4016157A	1601	300	15
9/5/95	4016158A	1601	300	15
9/5/95	4016159A	1601	300	15
9/5/95	4016160A	1601	300	15
9/5/95	4016161A	1601	300	15
9/5/95	4016162A	1601	300	15
9/5/95	4016163A	1601	300	15
9/5/95	4016164A	1601	300	15
9/5/95	4016165A	1601	300	15
9/5/95	4016166A	1601	300	15
9/5/95	4016167A	1601	300	15
9/5/95	4016168A	1601	300	15
9/5/95	4016170A	1601	300	15
9/5/95	4016174A	1601	300	15
9/5/95	4016175A	1601	300	15
9/5/95	4016176A	1601	300	15
9/5/95	4016177A	1601	300	15
9/5/95	4016178A	1601	300	15
9/5/95	4016179A	1601	300	15
9/5/95	4016180A	1601	300	15
9/5/95	4016181A	1601	300	15
9/5/95	4016182A	1601	300	15
9/5/95	4016183A	1601	300	15
9/5/95	4016185A	1601	300	15
9/5/95	4016188A	1601	300	15
9/5/95	4016189A	1601	300	15
9/5/95	4016190A	1601	300	15
9/5/95	4016191A	1601	300	15
9/5/95	4016192A	1601	300	15

RTC ALTERNATE COVER
4516 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
AMOCO

DATE SHIPPED	ROLL NUMBER	STYLE	ROLL LENGTH (FEET)	ROLL WIDTH (FEET)
8/9/96	109395091	4516	300	15
8/9/96	109395092	4516	300	15
8/9/96	109395095	4516	300	15
8/9/96	109395098	4516	300	15
8/9/96	109395111	4516	300	15
8/9/96	109395251	4516	300	15
8/9/96	109395252	4516	300	15
8/9/96	109395311	4516	300	15
8/9/96	109395312	4516	300	15
8/9/96	109395313	4516	300	15
8/9/96	109395317	4516	300	15
8/9/96	109395380	4516	300	15
8/9/96	109395383	4516	300	15
8/9/96	109395384	4516	300	15
8/9/96	109395385	4516	300	15
8/9/96	109395386	4516	300	15
8/9/96	109395473	4516	300	15
8/9/96	109395474	4516	300	15
8/9/96	109395477	4516	300	15
8/9/96	109395478	4516	300	15
8/9/96	109395479	4516	300	15
1/11/97	102018909	4516	300	15
1/11/97	102018911	4516	300	15
1/11/97	102018957	4516	300	15
1/11/97	102018960	4516	300	15
1/11/97	102021704	4516	300	15
1/11/97	102021706	4516	300	15
1/11/97	102021707	4516	300	15
1/11/97	102021708	4516	300	15
1/11/97	102021825	4516	300	15
1/11/97	102021825	4516	300	15
1/11/97	102021828	4516	300	15
1/11/97	109479936	4516	300	15
1/11/97	109479937	4516	300	15
1/11/97	109480312	4516	300	15
1/11/97	109480599	4516	300	15
1/11/97	109480681	4516	300	15

RTC ALTERNATE COVER
4552 GEOTEXTILE INVENTORY SUMMARY
6 OUNCE/SQUARE YARD PRODUCT
AMOCO

DATE SHIPPED	ROLL NUMBER	STYLE	ROLL LENGTH (FEET)	ROLL WIDTH (FEET)
11/13/96	109482861	4552	300	15
11/13/96	109482862	4552	300	15
11/13/96	109482865	4552	300	15
11/13/96	109482868	4552	300	15
11/13/96	109482869	4552	300	15
11/13/96	109482870	4552	300	15
11/13/96	109482956	4552	300	15
11/13/96	109482958	4552	300	15
11/13/96	109482959	4552	300	15
11/13/96	109482960	4552	300	15
11/13/96	109482961	4552	300	15
11/13/96	109483020	4552	300	15
11/13/96	109483021	4552	300	15
11/13/96	109483022	4552	300	15
11/13/96	109483102	4552	300	15
11/13/96	109483103	4552	300	15
11/13/96	109483105	4552	300	15
11/13/96	109483110	4552	300	15
11/13/96	109483111	4552	300	15
11/13/96	109483112	4552	300	15
11/13/96	109483150	4552	300	15
11/13/96	109483151	4552	300	15
11/13/96	109483152	4552	300	15
11/13/96	109483153	4552	300	15
11/13/96	109483154	4552	300	15
11/13/96	109483155	4552	300	15
11/13/96	109483195	4552	300	15
11/13/96	109483196	4552	300	15
11/13/96	109483197	4552	300	15

RTC ALTERNATE COVER
1680 GEOTEXTILE INVENTORY SUMMARY
16 OUNCE/SQUARE YARD PRODUCT
AMERICAN ENGINEERING FABRICS

DATE SHIPPED	ROLL NUMBER	STYLE	ROLL LENGTH (FEET)	ROLL WIDTH (FEET)
2/21/97	77251	1680	200	15
2/21/97	77252	1680	200	15
2/21/97	77253	1680	200	15
2/21/97	77254	1680	200	15
2/21/97	77255	1680	200	15
2/21/97	77256	1680	200	15
2/21/97	77257	1680	200	15
2/21/97	77258	1680	200	15
2/21/97	77732	1680	200	15
2/21/97	77734	1680	200	15
2/21/97	77735	1680	200	15
2/21/97	77737	1680	200	15
2/21/97	77738	1680	200	15
2/21/97	77742	1680	200	15
2/21/97	77743	1680	200	15
2/21/97	77744	1680	200	15
2/21/97	77745	1680	200	15
2/21/97	77747	1680	200	15
2/21/97	77748	1680	200	15
2/21/97	77749	1680	200	15
2/21/97	77750	1680	200	15
2/13/97	78235	1680	200	15
2/21/97	78236	1680	200	15
2/21/97	78237	1680	200	15
2/13/97	78239	1680	200	15
2/21/97	78241	1680	200	15

APPENDIX J.1.2

GEOTEXTILE QUALITY CONTROL CERTIFICATES

NICOLON
CORPORATION

September 15, 1992

RE: NICOLON Style S600
ORDER # 70006
QUANTITY: 36000 Sq.Yds.
PROJECT NAME: Industri Plex

Mr. Bill Spedding
Mr. John Hoff
Industri Plex
C\O Chem. Waste Management
41 Atlantic Ave.
Woburn, MA 01801

Dear Sirs,

This is to certify that NICOLON S600 is a 100% polypropylene nonwoven needle-punched fabric. NICOLON S600 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. NICOLON style S600 conforms to the physical properties listed in the following table:

FABRIC PROPERTY	TEST METHOD	UNITS	M.A.R.V.
Weight	ASTM D3776	oz./sq.yd.	6.0
Thickness	ASTM D1777	mils	75
Grab Tensile	ASTM D4632	lbs.	
- MD			150
- XMD			150
Trap Tear	ASTM D4533	lbs.	
- MD			65
- XMD			65
Puncture	ASTM D4833	lbs.	85
Mullen Burst	ASTM D3786	PSI	325
AOS	ASTM D4751	US Sieve(mm)	100

Attached are actual test values of rolls in shipment.

Sincerely,

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

Sworn and subscribed to before me this 15th day of Sept., 1992.

Darrell Norwood N.P.
Notary Public Signature My commission expires Mar. 14, 1993

Nicolon Corporation, Box 1979 - Cleveland Road, Cornelia, Georgia 30531 (404) 778-9794 FAX: (404) 778-2048

ROLL..	STYLE.	ACTUAL WEIGHT	THICK NESS	GRAB... TENSILE MACH DIR	GRAB... TENSILE XMACH DIR	TRAP TEAR MACH DIR	TRAP. TEAR XMACH DIR	PUNC TURE	BURST	AOS
00370	S600	6.5	114	204	202	86	99	155	395	100
00380	S600	6.6	125	204	202	97	101	155	395	100
00384	S600	7.1	121	204	202	97	101	155	395	100
00664	S600	6.2	132	173	197	97	101	105	348	100
00697	S600	6.0	121	173	197	83	75	105	348	100
00699	S600	7.0	138	237	277	89	101	136	413	100
00700	S600	6.1	129	194	170	89	101	136	413	100
00701	S600	6.0	125	194	170	97	88	136	413	100
00703	S600	6.5	129	194	170	97	88	119	410	100
00704	S600	6.7	137	197	196	97	88	119	410	100
00705	S600	6.9	132	197	196	97	88	119	410	100
00706	S600	6.5	114	197	173	97	88	119	410	100
00707	S600	6.5	128	197	173	85	81	119	410	100
00709	S600	6.0	118	197	173	85	81	116	413	100
00711	S600	6.1	119	197	173	94	84	116	413	100
00713	S600	6.5	131	215	196	89	101	132	400	100
00714	S600	6.6	128	187	209	89	101	132	400	100
00715	S600	6.7	132	187	209	89	101	132	400	100
00718	S600	8.2	139	217	224	89	101	150	417	100
00720	S600	6.1	124	217	224	103	99	150	417	100
00722	S600	6.8	129	202	196	89	101	166	477	100
00724	S600	7.3	134	233	230	89	101	155	381	100
00726	S600	6.8	144	233	230	101	100	155	381	100
00728	S600	6.3	137	221	193	89	101	127	367	100

24 Records Processed

NICOLON CORPORATION

NICOLON
CORPORATION

September 15, 1992

RE: NICOLON Style S600
ORDER # 70006
QUANTITY: 40500 Sq.Yds.
SHIP DATE:09/14/92
PROJECT NAME: Industri Plex

Mr. Bill Spedding
Mr. John Hoff
Industri Plex
C/O Chem Waste Management
41 Atlantic Ave.
Woburn, MA 01801

Dear Sirs,

This is to certify that NICOLON S600 is a 100% polypropylene nonwoven needle-punched fabric. NICOLON S600 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew and is non-bio-degradable. Polypropylene is stable within a pH range of 2 to 13. NICOLON style S600 conforms to the physical properties listed in the following table:

FABRIC PROPERTY	TEST METHOD	UNITS	M.A.R.V.
Weight	ASTM D3776	oz./sq.yd.	6.0
Thickness	ASTM D1777	mils	75
Grab Tensile	ASTM D4632	lbs.	
- MD			150
- XMD			150
Trap Tear	ASTM D4533	lbs.	
- MD			65
- XMD			65
Puncture	ASTM D4833	lbs.	85
Mullen Burst	ASTM D3786	PSI	325
AOS	ASTM D4751	US Sieve(mm)	100

Attached are actual test values of rolls in shipment.

Sincerely,

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

Sworn and subscribed to before me this 15th day of Sept.,1992.

Notary Public Signature My commission expires Mar. 14, 1993

Nicolon Corporation, Box 1979 - Cleveland Road, Cornelia, Georgia 30531 (404) 778-9794 FAX: (404) 778-2048

ROLL..	STYLE.	ACTUAL WEIGHT	THICK NESS	GRAB... TENSILE MACH DIR	GRAB... TENSILE XMACH DIR	TRAP TEAR MACH DIR	TRAP. TEAR XMACH DIR	PUNC TURE	BURST	AOS
00919	S600	6.8	132	211	220	87	95	134	372	100
00920	S600	6.7	135	208	207	79	97	122	398	100
00921	S600	6.4	127	208	207	75	95	122	398	100
00923	S600	6.3	129	198	190	75	95	122	398	100
00924	S600	6.2	120	213	187	75	95	122	398	100
00925	S600	6.5	121	213	187	75	95	122	398	100
00926	S600	6.6	130	211	231	75	95	122	398	100
00927	S600	6.1	131	198	198	75	95	122	398	100
00928	S600	6.3	129	211	231	75	95	122	398	100
00929	S600	6.7	130	211	231	75	95	122	398	100
00935	S600	6.2	125	208	178	85	82	122	444	100
00936	S600	6.0	118	195	188	85	82	122	444	100
00937	S600	6.7	121	195	188	100	99	122	444	100
00939	S600	6.3	135	218	219	100	99	122	444	100
00940	S600	6.3	134	218	184	100	99	122	444	100
00941	S600	6.6	131	218	184	86	94	122	444	100
00942	S600	6.8	126	213	225	86	94	122	444	100
00944	S600	6.2	122	213	225	86	94	126	430	100
00945	S600	6.2	116	213	225	86	94	126	430	100
00948	S600	6.1	129	208	220	86	94	126	430	100
00949	S600	6.5	132	208	220	86	94	150	463	100
00950	S600	6.1	125	229	204	86	94	150	463	100
00951	S600	6.8	130	229	204	87	95	150	463	100
00952	S600	6.5	124	207	210	87	95	150	463	100
00955	S600	6.8	132	207	210	87	95	130	407	100
00957	S600	6.7	140	187	229	87	95	130	407	100
00958	S600	6.7	130	211	220	87	95	130	407	100

27 Records Processed

NICOLON CORPORATION

NICOLON CORPORATION

September 15, 1992

RE: NICOLON Style S600
ORDER # 70006
QUANTITY: 10500 Sq.Yds.
SHIP DATE: 09/12/92
PROJECT NAME: Industri Plex

Mr. Bill Spedding
Mr. John Hoff
Industri Plex
C/O Chem Waste Management
41 Atlantic Ave.
Woburn, MA 01801

Dear Sirs,

This is to certify that NICOLON S600 is a 100% polypropylene nonwoven needle-punched fabric. NICOLON S600 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew and is non-bio-degradable. Polypropylene is stable within a pH range of 2 to 13. NICOLON style S600 conforms to the physical properties listed in the following table:

FABRIC PROPERTY	TEST METHOD	UNITS	M.A.R.V.
Weight	ASTM D3776	oz./sq.yd.	6.0
Thickness	ASTM D1777	mils	75
Grab Tensile	ASTM D4632	lbs.	
- MD			150
- XMD			150
Trap Tear	ASTM D4533	lbs.	
- MD			65
- XMD			65
Puncture	ASTM D4833	lbs.	85
Mullen Burst	ASTM D3786	PSI	325
AOS	ASTM D4751	US Sieve(mm)	100

Attached are actual test values of rolls in shipment.

Sincerely,

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

Sworn and subscribed to before me this 15th day of Sept.,1992.

Notary Public Signature My commission expires Mar. 14, 1993

Nicolon Corporation, Box 1979 - Cleveland Road, Cornelia, Georgia 30531 (404) 778-9794 FAX: (404) 778-2048

14:00

ROLL..	STYLE.	ACTUAL WEIGHT	THICK NESS	GRAB... TENSILE MACH DIR	GRAB... TENSILE XMACH DIR	TRAP TEAR MACH DIR	TRAP. TEAR XMACH DIR	PUNC TURE	BURST	AOS
00369	S600	6.5	114	204	202	89	101	155	395	100
00698	S600	8.5	154	237	277	89	101	155	395	100
00712	S600	6.5	125	215	196	89	101	155	395	100
00716	S600	6.8	108	217	224	89	101	155	381	100
00721	S600	6.1	124	202	196	89	101	155	381	100
00723	S600	7.0	137	233	230	89	101	155	381	100
00727	S600	6.7	135	221	193	89	101	155	381	100

7 Records Processed

NICOLON CORPORATION

NICOLON
CORPORATION

September 15, 1992

RE: NICOLON Style S600
ORDER # 70006E
QUANTITY: 7500 Sq.Yds.
PROJECT NAME: Industri Plex

Mr. Bill Spedding
Mr. John Hoff
Industri Plex
C/O Chem Waste Management
41 Atlantic Ave.
Woburn, MA 01801

Dear Sirs,

This is to certify that NICOLON S600 is a 100% polypropylene nonwoven needle-punched fabric. NICOLON S600 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. NICOLON style S600 conforms to the physical properties listed in the following table:

FABRIC PROPERTY	TEST METHOD	UNITS	M.A.R.V.
Weight	ASTM D3776	oz./sq.yd.	6.0
Thickness	ASTM D1777	mils	75
Grab Tensile	ASTM D4632	lbs.	
- MD			150
- XMD			150
Trap Tear	ASTM D4533	lbs.	
- MD			65
- XMD			65
Puncture	ASTM D4833	lbs.	85
Mullen Burst	ASTM D3786	PSI	325
AOS	ASTM D4751	US Sieve(mm)	100

Attached are actual test values of rolls in shipment.

Sincerely,

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

Sworn and subscribed to before me this 15th day of Sept.,1992.

Notary Public Signature

My commission expires Mar. 14, 1993

Nicolon Corporation, Box 1979 - Cleveland Road, Cornelia, Georgia 30531 (404) 778-9794 FAX: (404) 778-2048

ROLL..	STYLE.	ACTUAL WEIGHT	THICK NESS	GRAB... TENSILE MACH DIR	GRAB... TENSILE XMACH DIR	TRAP TEAR MACH DIR	TRAP. TEAR XMACH DIR	PUNC TURE	BURST	AOS
00666	S600	6.3	123	208	207	93	96	128	423	100
00667	S600	6.6	128	208	207	93	96	128	423	100
00668	S600	6.1	130	208	207	93	96	128	423	100
00669	S600	6.2	126	186	194	93	96	128	423	100
00670	S600	6.2	131	186	194	81	95	128	423	100

5 Records Processed

NICOLON CORPORATION

NICOLON
CORPORATION

November 17, 1992

RE: NICOLON Style S600
ORDER # 70006
QUANTITY: 18000 Sq.Yds.
SHIP DATE: 11/17/92
PROJECT NAME: Industri Plex

Mr. Bill Spedding
Mr. John Hoff
Industri Plex
C/O Chem Waste Management
41 Atlantic Ave.
Woburn, MA 01801

Dear Sirs,

This is to certify that NICOLON S600 is a 100% polypropylene nonwoven needle-punched fabric. NICOLON S600 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. NICOLON style S600 conforms to the physical properties listed in the following table:

FABRIC PROPERTY	TEST METHOD	UNITS	M.A.R.V.
Weight	ASTM D3776	oz./sq.yd.	6.0
Thickness	ASTM D1777	mils	75
Grab Tensile	ASTM D4632	lbs.	
- MD			150
- XMD			150
Trap Tear	ASTM D4533	lbs.	
- MD			65
- XMD			65
Puncture	ASTM D4833	lbs.	85
Mullen Burst	ASTM D3786	PSI	325
AOS	ASTM D4751	US Std Sieve	100

Attached are actual test values of rolls in shipment.

Sincerely,

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

Sworn and subscribed to before me this 17th day of Nov., 1992.

Tammy M. Perry N.P.
Notary Public Signature

My Commission Expires Sept. 23, 1996

Nicolon Corporation, Box 1979 - Cleveland Road, Cornelia, Georgia 30531 (404) 778-9794 FAX: (404) 778-2048

67300-0255-8

17:05:18 17 NOV 1992

ROLL	STYLE	ACTUAL WEIGHT	THICK NESS	GRAB... TENSILE MACH DIR	GRAB... TENSILE XMACH DIR	TRAP TEAR MACH DIR	TRAP. TEAR XMACH DIR	PUNC TURE	BURST	AOS
91	S600	6.3	120	166	210	85	100	140	493	100
J61	S600	6.3	138	197	174	99	72	94	353	100
02062	S600	6.3	138	197	174	99	72	94	353	100
02066	S600	6.6	138	197	174	99	72	94	353	100
02067	S600	6.5	138	197	174	99	72	94	353	100
02071	S600	6.0	138	197	174	99	72	94	353	100
02072	S600	6.0	138	197	174	99	72	94	353	100
02074	S600	6.1	138	197	174	99	72	94	353	100
02075	S600	6.3	138	197	174	99	72	94	353	100
02076	S600	6.6	138	197	174	99	72	94	353	100
02077	S600	6.2	138	197	174	99	72	94	353	100
02087	S600	7.2	139	212	216	99	72	94	353	100

12 Records Processed

NICOLON CORPORATION

NICOLON
CORPORATION

December 17, 1993

RE: NICOLON Style S600
ORDER # 3864
QUANTITY: 18000 Sq.Yd.
SHIP DATE: December 17, 1993
CUSTOMER ORDER #: 841152/#14037
BILL OF LADING: 3760, 3761, 3762

Industri Plex
Chem Waste Management
41 Atlantic Ave.
Woburn, MA 01801

Dear Sir,

This is to certify that NICOLON S600 is a 100% polypropylene nonwoven needle-punched fabric. NICOLON S600 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. NICOLON style S600 conforms to the physical properties listed in the following table:

FABRIC PROPERTY	TEST METHOD	UNITS	M.A.R.V.
Weight	ASTM D3776	oz./sq.yd.	6.0
Thickness	ASTM D1777	mils	75
Grab Tensile	ASTM D4632	lbs.	
- MD			150
- XMD			150
Trap Tear	ASTM D4533	lbs.	
- MD			65
- XMD			65
Puncture	ASTM D4833	lbs.	85
Mullen Burst	ASTM D3786	PSI	325
AOS	ASTM D4751	US Std Sieve	100

Attached are actual test values of rolls in shipment.

Sincerely,

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

Sworn and subscribed to before me this 17th day of December, 1993.

Tammy W. Perry
My Commission Expires Sept. 28, 1996

Notary Public Signature

Nicolon Corporation, P.O. Box 1979 - Cleveland Road, Cornelia, Georgia 30531 (706) 778-9794 FAX. (706) 778-2048

 15:18:31 17 DEC 1993

ROLL.NO	STYLE.	ACTUAL WEIGHT	THICK NESS	GRAB... TENSILE MACH DIR	GRAB... TENSILE XMACH DIR	TRAP TEAR MACH DIR	TRAP. TEAR XMACH DIR	PUNC TURE	BURST	AOS
027809	S600	6.9	135	160	209	82	92	110	379	100
027814	S600	6.8	138	181	211	93	103	96	379	100
027820	S600	7.2	144	183	222	70	96	96	370	100
027824	S600	6.8	144	183	222	72	96	96	370	100
027830	S600	6.9	144	183	222	72	96	96	370	100
027831	S600	6.9	144	183	222	72	96	96	370	100
027834	S600	6.7	138	184	234	91	115	107	377	100
027846	S600	6.1	151	191	214	76	114	110	384	100
027849	S600	6.7	151	191	214	76	114	110	384	100
027850	S600	7.0	157	173	251	82	110	122	417	100
027854	S600	6.8	157	173	251	82	110	122	417	100
027857	S600	6.9	157	173	251	75	91	108	390	100
		6.0	75	150	150	65	65	55	325	70

12 Rows Processed

NICOLON CORPORATION

A member of OWV Gruppe

Polyfelt Americas

03/14/94

RUST REMEDIAL SERVICES
41 ATLANTIC AVENUE
WOBURN MA 01801

SUBJECT: POLYFELT X0046 (TS650) Geotextile Certificate of Compliance

WOBURN CAP 736, Our Order's 11966, 11967, 11968, 11969, Customer ref 408557

Dear Sir/Madam,

This letter certifies that POLYFELT X0046 (TS650), shipped FOB Evergreen, Alabama, on 3/11/94, manufactured by Polyfelt Americas meets or exceeds the project requirements listed below and was shipped from Lot(s): 40058

PROPERTY	TEST PROCEDURE	VALUE(1)	
WEIGHT	ASTM D 5261	6.0	Oz per sq yd
THICKNESS	ASTM D 5199	75.0	*Mil
TEAR STRENGTH	ASTM D 4533	65.0	lbs
MULLEN BURST	ASTM D 3786	325.0	psi
PUNCTURE RESISTANCE	ASTM D 4833	85.0	lbs
A.O.S.	ASTM D 4751	70	*U.S. Std Sieve
A.O.S.	ASTM D 4751	.212	*mm

(1) Values in weaker principle direction. Unless noted otherwise these values represent minimum average roll values (i.e. test results from any sampled roll in a lot, tested in accordance with ASTM D4759-88 shall meet or exceed the minimum values listed)

* Determined at the time of manufacturing, storage and handling conditions which differ from those found in ASTM D4873-88 may influence these properties.

(3) Strongest Principle Direction.

Polyfelt Americas
200 Miller Sellers Drive
Evergreen, Alabama 36401
Tel: (205) 578-4756
Fax: (205) 578-6153

A member of OWV Gruppe

Polyfelt Americas

Unless noted otherwise this certification is based on testing conducted by Polyfelt's Quality Assurance & Quality control testing laboratories at the time of manufacturing. Polyfelt Americas issues this letter of certification to indicate our commitment to providing our customers with a quality product which will meet or exceed the minimum average roll values in accordance with the applicable American Society for Testing and Materials (ASTM) test method.

Sincerely,

Warren Sickler /cs

Warren Sickler
QA Manager/Applications Engineer

Polyfelt Americas

200 Miller Sellers Drive
Evergreen, Alabama 36401

Tel: (205) 578-4756
Fax: (205) 578-6153

ORDER NO 11966

RECV'D 3/19/94

2ND TRUCK

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	X0046180360N1B	4506729
2	X0046180360N1B	4506733
3	X0046180360N1B	4506734
4	X0046180360N1B	4506735
5	X0046180360N1B	4506739
6	X0046180360N1B	4506741
7	X0046180360N1B	4506742
8	X0046180360N1B	4506743
9	X0046180360N1B	4506748
10	X0046180360N1B	4506749
11	X0046180360N1B	4506759
12	X0046180360N1B	4506760
13	X0046180360N1B	4506761
14	X0046180360N1B	4506762
15	X0046180360N1B	4506763
16	X0046180360N1B	4506764
17	X0046180360N1B	4506768
18	X0046180360N1B	4506769
19	X0046180360N1B	4506770
20	X0046180360N1B	4506771
21	X0046180360N1B	4506772
22	X0046180360N1B	4506783
23	X0046180360N1B	4506784
24	X0046180360N1B	4506785
25	X0046180360N1B	4506786
26	X0046180360N1B	4506787
27	X0046180360N1B	4506788
28	X0046180360N1B	4506789
29	X0046180360N1B	4506792
30	X0046180360N1B	4506793
31	X0046180360N1B	4506794
32	X0046180360N1B	4506933
33	X0046180360N1B	4506936
34	X0046180360N1B	4506938
35	X0046180360N1B	4506940
36	X0046180360N1B	4506942
37	X0046180360N1B	4506943
38	X0046180360N1B	4506946
39	X0046180360N1B	4506948
40	X0046180360N1B	4506955
41	X0046180360N1B	4506956
42	X0046180360N1B	4506959
43	X0046180360N1B	4506964
44	X0046180360N1B	4506968
45	X0046180360N1B	4506969
46	X0046180360N1B	4506972
47	X0046180360N1B	4506973
48	X0046180360N1B	4506977
49	X0046180360N1B	4506978
50	X0046180360N1B	4506979
51	X0046180360N1B	4506980
52	X0046180360N1B	4506981

ORDER NO 11968

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
53	X0046180360N1B	4506984
54	X0046180360N1B	4506985
55	X0046180360N1B	4506986
56	X0046180360N1B	4506988
57	X0046180360N1B	4506991
58	X0046180360N1B	4506998
59	X0046180360N1B	4507000
60	X0046180360N1B	4507036

TOTAL ROLLS FOR X0046180360N1B 60

TOTAL ROLLS FOR ORDER 60

POLYFELT AMERICAS
PACKING LIST

3/11/94

ORDER NO 11967

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	X0046180360N1B	4506731
2	X0046180360N1B	4506745
3	X0046180360N1B	4506747
4	X0046180360N1B	4506750
5	X0046180360N1B	4506838
6	X0046180360N1B	4506842
7	X0046180360N1B	4506844
8	X0046180360N1B	4506848
9	X0046180360N1B	4506849
10	X0046180360N1B	4506852
11	X0046180360N1B	4506856
12	X0046180360N1B	4506857
13	X0046180360N1B	4506858
14	X0046180360N1B	4506860
15	X0046180360N1B	4506862
16	X0046180360N1B	4506863
17	X0046180360N1B	4506864
18	X0046180360N1B	4506865
19	X0046180360N1B	4506866
20	X0046180360N1B	4506867
21	X0046180360N1B	4506880
22	X0046180360N1B	4506882
23	X0046180360N1B	4506884
24	X0046180360N1B	4506891
25	X0046180360N1B	4506892
26	X0046180360N1B	4506894
27	X0046180360N1B	4506897
28	X0046180360N1B	4506898
29	X0046180360N1B	4506899
30	X0046180360N1B	4506900
31	X0046180360N1B	4506901
32	X0046180360N1B	4506902
33	X0046180360N1B	4506903
34	X0046180360N1B	4506904
35	X0046180360N1B	4506905
36	X0046180360N1B	4506906
37	X0046180360N1B	4506907
38	X0046180360N1B	4506908
39	X0046180360N1B	4506909
40	X0046180360N1B	4506910
41	X0046180360N1B	4506911
42	X0046180360N1B	4506912
43	X0046180360N1B	4506913
44	X0046180360N1B	4506914
45	X0046180360N1B	4506915
46	X0046180360N1B	4506916
47	X0046180360N1B	4506917
48	X0046180360N1B	4506918
49	X0046180360N1B	4506919
50	X0046180360N1B	4506921
51	X0046180360N1B	4506922
52	X0046180360N1B	4506923

PACKING LIST

3/11/94

ORDER NO 11967

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
53	X004618Ø36ØN1B	4Ø6924
54	X004618Ø36ØN1B	4Ø6925
55	X004618Ø36ØN1B	4Ø6926
56	X004618Ø36ØN1B	4Ø6927
57	X004618Ø36ØN1B	4Ø6928
58	X004618Ø36ØN1B	4Ø6929
59	X004618Ø36ØN1B	4Ø6930
6Ø	X004618Ø36ØN1B	4Ø6931

TOTAL ROLLS FOR X004618Ø36ØN1B 6Ø

TOTAL ROLLS FOR ORDER 6Ø

POLYFELT AMERICAS
PACKING LIST

3/11/94

ORDER NO 11968

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	X004618Ø360N1B	4506397
2	X004618Ø360N1B	4506399
3	X004618Ø360N1B	4506400
4	X004618Ø360N1B	4506401
5	X004618Ø360N1B	4506402
6	X004618Ø360N1B	4506417
7	X004618Ø360N1B	4506418
8	X004618Ø360N1B	4506419
9	X004618Ø360N1B	4506420
1Ø	X004618Ø360N1B	4506421
11	X004618Ø360N1B	4506422
12	X004618Ø360N1B	4506423
13	X004618Ø360N1B	4506424
14	X004618Ø360N1B	4506426
15	X004618Ø360N1B	4506427
16	X004618Ø360N1B	4506429
17	X004618Ø360N1B	4506430
18	X004618Ø360N1B	4506431
19	X004618Ø360N1B	4506432
2Ø	X004618Ø360N1B	4506433
21	X004618Ø360N1B	4506816
22	X004618Ø360N1B	4506832
23	X004618Ø360N1B	4506837
24	X004618Ø360N1B	4506840
25	X004618Ø360N1B	4506841
26	X004618Ø360N1B	4506843
27	X004618Ø360N1B	4506939
28	X004618Ø360N1B	4506941
29	X004618Ø360N1B	4506947
3Ø	X004618Ø360N1B	4506949
31	X004618Ø360N1B	4506951
32	X004618Ø360N1B	4506953
33	X004618Ø360N1B	4506960
34	X004618Ø360N1B	4506962
35	X004618Ø360N1B	4506963
36	X004618Ø360N1B	4506968
37	X004618Ø360N1B	4506967
38	X004618Ø360N1B	4506975
39	X004618Ø360N1B	4506983
4Ø	X004618Ø360N1B	4506987
41	X004618Ø360N1B	4506989
42	X004618Ø360N1B	4506990
43	X004618Ø360N1B	4506992
44	X004618Ø360N1B	4506993
45	X004618Ø360N1B	4506994
46	X004618Ø360N1B	4506995
47	X004618Ø360N1B	4506996
48	X004618Ø360N1B	4506997
49	X004618Ø360N1B	4506999
5Ø	X004618Ø360N1B	4507002
51	X004618Ø360N1B	4507003
52	X004618Ø360N1B	4507004

POLYFELT AMERICAS
PACKING LIST

3/11/94

ORDER NO 11968

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
53	X004618036ØN1B	45Ø7Ø28
54	X004618036ØN1B	45Ø7Ø29
55	X004618036ØN1B	45Ø7Ø31
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

TOTAL ROLLS FOR X004618036ØN1B [illegible]

TOTAL ROLLS FOR ORDER [illegible]

POLYFELT AMERICAS
PACKING LIST

3/11/94

ORDER NO 11969

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	X0046180360N1B	4506403
2	X0046180360N1B	4506767
3	X0046180360N1B	4506774
4	X0046180360N1B	4506775
5	X0046180360N1B	4506776
6	X0046180360N1B	4506777
7	X0046180360N1B	4506778
8	X0046180360N1B	4506780
9	X0046180360N1B	4506781
10	X0046180360N1B	4506782
11	X0046180360N1B	4506796
12	X0046180360N1B	4506813
13	X0046180360N1B	4506814
14	X0046180360N1B	4506815
15	X0046180360N1B	4506822
16	X0046180360N1B	4506823
17	X0046180360N1B	4506824
18	X0046180360N1B	4506825
19	X0046180360N1B	4506834
20	X0046180360N1B	4506835
21	X0046180360N1B	4506839
22	X0046180360N1B	4506845
23	X0046180360N1B	4506850
24	X0046180360N1B	4506851
25	X0046180360N1B	4506859
26	X0046180360N1B	4506868
27	X0046180360N1B	4506869
28	X0046180360N1B	4506870
29	X0046180360N1B	4506877
30	X0046180360N1B	4506878
31	X0046180360N1B	4506879
32	X0046180360N1B	4506881
33	X0046180360N1B	4506883
34	X0046180360N1B	4506885
35	X0046180360N1B	4506886
36	X0046180360N1B	4506887
37	X0046180360N1B	4506932
38	X0046180360N1B	4506935
39	X0046180360N1B	4506945
40	X0046180360N1B	4506952
41	X0046180360N1B	4506954
42	X0046180360N1B	4506957
43	X0046180360N1B	4506958
44	X0046180360N1B	4506961
45	X0046180360N1B	4506970
46	X0046180360N1B	4506971
47	X0046180360N1B	4506974
48	X0046180360N1B	4506982
49	X0046180360N1B	4507038
50	X0046180360N1B	4507089
51	X0046180360N1B	4507090
52	X0046180360N1B	4507091

was on Truck

4507066

POLYFELT AMERICAS
PACKING LIST

3/11/94

ORDER NO 11969

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
53	X004618Ø36ØN1B	45Ø7Ø92
54	X004618Ø36ØN1B	45Ø7Ø93
55	X004618Ø36ØN1B	45Ø7Ø94
56	X004618Ø36ØN1B	45Ø71Ø7
57	X004618Ø36ØN1B	45Ø71Ø8
58	X004618Ø36ØN1B	45Ø7111
59	X004618Ø36ØN1B	45Ø7112
6Ø	X004618Ø36ØN1B	45Ø7113

TOTAL ROLLS FOR X004618Ø36ØN1B 6Ø

TOTAL ROLLS FOR ORDER 6Ø

A member of OMV Gruppe

Polyfelt Americas

04/26/94

RUST REMEDIAL SERVICES
41 ATLANTIC AVENUE
WOBURN MA 01801

SUBJECT: POLYFELT X0046 Geotextile Certificate of Compliance

WOBURN CAP 736 Our Order 11970 Customer ref 408557

Dear Sir/Madam,

This letter certifies that POLYFELT X0046, shipped FOB Evergreen, Alabama, on 4/25/94, manufactured by Polyfelt Americas meets or exceeds the project requirements listed below and was shipped from Lot(s): 40058

PROPERTY	TEST PROCEDURE	VALUE(1)	
WEIGHT	ASTM D 5261	6.0	Oz per sq yd
THICKNESS	ASTM D 5199	75.0	*Mil
TEAR STRENGTH	ASTM D 4533	65.0	lbs
MULLEN BURST	ASTM D 3786	325.0	psi
PUNCTURE RESISTANCE	ASTM D 4833	85.0	lbs
A.O.S.	ASTM D 4751	70	*U.S. Std Sieve
A.O.S.	ASTM D 4751	.212	*mm

(1) Values in weaker principle direction. Unless noted otherwise these values represent minimum average roll values (i.e. test results from any sampled roll in a lot, tested in accordance with ASTM D4759-88 shall meet or exceed the minimum values listed)

* Determined at the time of manufacturing, storage and handling conditions which differ from those found in ASTM D4873-88 may influence these properties.

(3) Strongest Principle Direction.

Polyfelt Americas
200 Miller Sellers Drive
Evergreen, Alabama 36401
Tel: (205) 578-4756
Fax: (205) 578-6153

A member of OWV Gruppe

Polyfelt Americas

Unless noted otherwise this certification is based on testing conducted by Polyfelt's Quality Assurance & Quality control testing laboratories at the time of manufacturing. Polyfelt Americas issues this letter of certification to indicate our commitment to providing our customers with a quality product which will meet or exceed the minimum average roll values in accordance with the applicable American Society for Testing and Materials (ASTM) test method.

Sincerely,

Warren Sickler
QA Manager/Applications Engineer

Polyfelt Americas

200 Miller Sellers Drive
Evergreen, Alabama 36401

Tel: (205) 578-4756
Fax: (205) 578-6153

03/16/94

PRODUCT GRADE: X 0045
LOT NUMBER: 40058
COLOR: BEIGE
ROLL DIM.: 15 x 360

POLYFELT AMERICAS
MQA/MCC LABORATORY
EVERGREEN, ALABAMA

TEST ROLLS LOT SUMMARY

REVIEWED BY:
QA Margaret Bartlewright
ENGINEER

ROLL NO.	TEST_DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENSILE (lbs)	M.D. ELONG. (%)	C.D. TENSILE (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (in.)	HYDRAULIC TESTS ASTM D 4491 PERMIT. (sec-1)	PERM. (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
4506397	03/04/94	8.4	204.1	133.0	300.8	56.0	384.8								
4506400	03/04/94	8.3						93.5	84.2	112.3	0.130				
4506407	03/04/94	8.6	214.9	134.0	274.1	53.0	393.9								
4506415	03/04/94	8.5						116.1	81.4	95.2	0.107				
4506417	03/04/94	8.3	209.7	123.0	276.1	52.0	401.8								
4506453	03/04/94	9.1	215.1	131.0	321.8	58.0	389.9								
4506455	03/04/94	9.6	229.5	129.0	339.1	61.0	384.0								
4506457	03/04/94	9.4	234.7	135.0	348.5	62.0	377.8								
4506502	03/05/94	8.7	202.3	137.0	272.7	56.0	368.8								
4506504	03/05/94	8.6	196.9	134.1	284.4	58.0	369.8								
4506648	03/06/94	8.5	238.3	126.0	271.1	57.0	370.3								
4506682	03/07/94								77.4	95.9					
4506683	03/07/94								86.0	93.4					
4506686	03/06/94	8.9	250.9	116.0	283.1	60.0	378.1								
4506690	03/06/94	8.9	240.3	118.0	236.8	60.0	385.5								
4506691	03/06/94	8.7	245.9	118.0	301.7	58.0	383.7								
4506692	03/06/94	9.0	242.3	118.0	308.7	60.0	383.2								
4506697	03/06/94	8.7	241.2	122.0	293.2	59.0	391.7	116.1	82.4	101.0	0.125				0.180
4506708	03/06/94	9.3	246.2	122.0	308.7	59.0	410.5								
4506714	03/07/94								84.6	101.1					
4506721	03/07/94	9.0	257.0	124.0	315.5	62.0	395.6								
4506739	03/07/94	8.5	255.8	120.0	281.9	64.0	404.1								
4506769	03/07/94	8.6	263.3	125.0	286.7	67.0	407.7								
4506780	03/08/94	8.8						115.3		100.8	0.129				
4506787	03/07/94	8.8	258.3	135.0	283.1	62.0	401.5								
4506797	03/07/94	8.7	251.1	107.0	270.9	54.0	408.0								
4506804	03/07/94	8.8	241.0	126.0	292.5	54.0	401.3								
4506805	03/07/94	7.8						109.6	82.0	92.5	0.108				
4506806	02/07/94	8.8	244.8	109.0	286.2	53.0	394.0								

ROLL NO.	TEST_DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENSILE (lbs)	M.D. ELONG. (%)	C.D. TENSILE (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (in.)	HYDRAULIC TESTS ASTM D 4491 PERMIT. (sec-1)	HYDRAULIC TESTS ASTM D 4491 PERM. (cm/sec)	HYDRAULIC TESTS ASTM D 4491 WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
4506811	03/07/94	8.7	239.6	109.0	299.5	56.0	394.7								0.180
4506821	03/07/94	8.4	264.2	116.0	292.5	57.0	402.5		81.7						
4506833	03/07/94	8.4	248.2	110.0	265.5	55.0	379.0								
4506849	03/07/94	8.6	239.6	106.0	281.3	55.0	392.4								
4506857	03/08/94	8.4						112.0	90.4	100.5	0.158				0.212
4506862	03/07/94	8.6	258.3	108.0	286.0	54.0	392.9								
4506868	03/08/94	8.6	270.7	108.0	296.3	53.0	402.4								
4506878	03/08/94	8.1						112.7	88.8	103.9	0.125				
4506886	03/08/94	9.9	259.2	124.0	342.2	55.0	455.3								
4506889	03/08/94	8.8	250.9	102.0	292.3	51.0	392.6								
4506891	03/08/94	8.5	241.7	98.0	270.0	53.0	396.3								
4506896	03/08/94	9.4	264.4	107.0	300.8	52.0	436.2								
4506897	03/08/94	8.9						110.7	89.1	100.3	0.108				0.180
4506906	03/08/94	8.7	268.4	102.0	305.7	55.0	399.9								
4506913	03/08/94	8.6	274.5	107.0	303.3	50.0	390.6								
4506925	03/08/94	8.8	273.8	106.0	291.6	52.0	395.8								
4506929	03/08/94	8.7						124.6	92.1	101.6	0.113				
4506935	03/08/94	8.2	264.4	109.0	315.5	50.0	383.9		97.5						
4506943	03/09/94	8.5	272.9	109.0	310.1	53.0	388.9								
4506962	03/09/94	8.4	262.6	108.0	293.9	52.0	389.2								
4506976	03/09/94	8.7	275.9	112.0	303.5	50.0	388.7								
4506981	03/09/94	7.8	264.6	111.0	284.2	52.0	362.9								
4506985	03/09/94	8.2						116.0	78.6	90.3	0.119				
4506993	03/09/94	8.1	269.8	111.0	295.0	50.0	383.4								
4507002	03/09/94	8.1						106.6	77.4	92.0	0.149				0.156
4507022	03/09/94	8.3						109.6	84.9	94.2	0.119				
4507028	03/09/94	8.6	272.9	111.0	284.6	62.0	375.8								
4507039	03/09/94	8.3						112.8	81.8	96.1	0.111				
4507046	03/09/94	8.2	263.7	114.0	285.5	57.0	393.3								
4507054	03/09/94	8.0	265.5	114.0	281.9	56.0	373.3								
4507072	03/09/94	8.7	290.9	114.0	262.1	59.0	399.7								
4507077	03/09/94	8.2						115.0	79.2	92.4					0.180
4507089	03/09/94	8.7	277.9	133.0	299.3	57.0	390.5								
4507107	03/10/94	8.3	266.2	125.0	315.0	60.0	386.2								
4507125	03/09/94	8.6	274.5	121.0	305.7	59.0	397.9								

04/27/94 09:14 ☎205 578 8124 POLYFELT ENG. 005

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENSILE (lbs)	M.D. ELONG. (%)	C.D. TENSILE (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (in.)	HYDRAULIC TESTS ASTM D 4491 PERMIT. (sec-1)	PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
4507143	03/09/94	8.5	263.3	115.0	304.7	59.0	399.1								
4507144	03/10/94	7.6						101.5	85.1	89.6	0.130				
4507160	03/10/94	8.5	292.1	123.0	313.9	62.0	386.0								
AVERAGE =		8.6	252.3	117.6	295.6	56.4	392.1	111.5	84.5	97.4	0.124	*.**	*.***	***.*	0.181
STD. DEVIATION =		0.4	22.0	10.3	18.7	4.1	15.5	7.2	5.3	5.8	0.015	*.**	*.***	***.*	0.018

04/27/94 09:15 ☎205 578 8124 POLYFELT ENG. 006

POLYFELT AMERICAS
PACKING LIST

6/94

RDER NO 11970

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	X0046180360N1B	4507001
2	X0046180360N1B	4507040
3	X0046180360N1B	4507041
4	X0046180360N1B	4507043
5	X0046180360N1B	4507047
6	X0046180360N1B	4507052
7	X0046180360N1B	4507059
8	X0046180360N1B	4507060
9	X0046180360N1B	4507064
10	X0046180360N1B	4507065
11	X0046180360N1B	4507067
12	X0046180360N1B	4507068
13	X0046180360N1B	4507088
14	X0046180360N1B	4507095
15	X0046180360N1B	4507096
16	X0046180360N1B	4507097
17	X0046180360N1B	4507104
18	X0046180360N1B	4507113
19	X0046180360N1B	4507115
20	X0046180360N1B	4507116
21	X0046180360N1B	4507117
22	X0046180360N1B	4507118
23	X0046180360N1B	4507120
24	X0046180360N1B	4507121
25	X0046180360N1B	4507122
26	X0046180360N1B	4507124
27	X0046180360N1B	4507125
28	X0046180360N1B	4507126
29	X0046180360N1B	4507127
30	X0046180360N1B	4507128
31	X0046180360N1B	4507129
32	X0046180360N1B	4507130
33	X0046180360N1B	4507131
34	X0046180360N1B	4507132
35	X0046180360N1B	4507133
36	X0046180360N1B	4507134
37	X0046180360N1B	4507135
38	X0046180360N1B	4507136
39	X0046180360N1B	4507138
40	X0046180360N1B	4507139
41	X0046180360N1B	4507141
42	X0046180360N1B	4507142
43	X0046180360N1B	4507143
44	X0046180360N1B	4507144
45	X0046180360N1B	4507145
46	X0046180360N1B	4507146
47	X0046180360N1B	4507147
48	X0046180360N1B	4507148
49	X0046180360N1B	4507149
50	X0046180360N1B	4507150
51	X0046180360N1B	4507151
52	X0046180360N1B	4507152

RECEIVED 4-29-94 MB

POLYFELT AMERICAS
PACKING LIST

4/26/94

ORDER NO 11970

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
53	X004618036ØN1B	4507153
54	X004618036ØN1B	4507154
55	X004618036ØN1B	4507155
56	X004618036ØN1B	4507156
57	X004618036ØN1B	4507157
58	X004618036ØN1B	4507158
59	X004618036ØN1B	4507159
6Ø	X004618036ØN1B	4507160

TOTAL ROLLS FOR X004618036ØN1B 6Ø

TOTAL ROLLS FOR ORDER 6Ø

A member of OWV Gruppe

Polyfelt Americas

05/03/94

RUST REMEDIAL SERVICES
41 ATLANTIC AVENUE
WOBURN MA 01801

SUBJECT: POLYFELT X0046 (TS650) Geotextile Certificate of Compliance

WOBURN CAP 736 Our Order's 11971 & 12641

Dear Sir/Madam,

This letter certifies that POLYFELT X0046 (TS650), shipped FOB Evergreen, Alabama, on 4/29/94, manufactured by Polyfelt Americas meets or exceeds the project requirements listed below and was shipped from Lot(s): 40010

PROPERTY	TEST PROCEDURE	VALUE(1)	
WEIGHT	ASTM D 5261	6.0	Oz per sq yd
THICKNESS	ASTM D 5199	75.0	*Mil
TEAR STRENGTH	ASTM D 4533	65.0	lbs
MULLEN BURST	ASTM D 3786	325.0	psi
PUNCTURE RESISTANCE	ASTM D 4833	85.0	lbs
A.O.S.	ASTM D 4751	70	*U.S. Std Sieve
A.O.S.	ASTM D 4751	.212*mm	

(1) Values in weaker principle direction. Unless noted otherwise these values represent minimum average roll values (i.e. test results from any sampled roll in a lot, tested in accordance with ASTM D4759-88 shall meet or exceed the minimum values listed)

* Determined at the time of manufacturing, storage and handling conditions which differ from those found in ASTM D4873-88 may influence these properties.

(3) Strongest Principle Direction.

Polyfelt Americas
200 Miller Sellers Drive
Evergreen, Alabama 36401
Tel: (205) 578-4756
Fax: (205) 578-6153

Unless noted otherwise this certification is based on testing conducted by Polyfelt's Quality Assurance & Quality control testing laboratories at the time of manufacturing. Polyfelt Americas issues this letter of certification to indicate our commitment to providing our customers with a quality product which will meet or exceed the minimum average roll values in accordance with the applicable American Society for Testing and Materials (ASTM) test method.

Sincerely,

Warren Sickler /cs

Warren Sickler
QA Manager/Applications Engineer

02/22/94

POLYFELT AMERICAS
MQA/MQC LABORATORY
EVERGREEN, ALABAMA

REVIEWED BY:
QA_____
ENGINEER

PRODUCT GRADE: TS 700
LOT NUMBER: 40010
COLOR: BEIGE
ROLL DIM.: 15 x 360

TEST ROLLS LOT SUMMARY

ROLL NO.	TEST_DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENSILE (lbs)	M.D. ELONG. (%)	C.D. TENSILE (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (in.)	HYDRAULIC TESTS ASTM D 4491 PERMIT. (sec-1)	PERM.(Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
4500825	01/14/94	9.2	230.9	129.0	345.8	52.0	551.0								
4500833	01/14/94	9.7	232.4	129.0	354.2	50.0	603.2								
4500835	01/14/94	9.6	228.4	127.0	345.8	49.0	573.0								
4500840	01/14/94	9.7	230.6	127.0	350.3	53.0	583.9								
4500845	01/14/94	10.1	230.0	132.0	333.0	52.0	582.8								
4500861	01/15/94	10.2	223.4	130.0	358.4	53.0	596.3								
4500875	01/15/94	10.6	233.1	140.0	351.5	55.0	648.5								
4500890	01/15/94	10.3	240.3	141.0	357.5	51.0	606.8								
4500915	01/15/94	9.6	221.6	135.0	348.8	53.0	561.1								
4500932	01/15/94	10.0	223.7	128.0	322.2	51.0	558.7								
4500942	01/15/94	10.3	234.2	130.0	355.7	52.0	594.1								
4500948	01/16/94								86.5	132.3					
4500964	01/16/94								89.8	119.3					
4500974	01/16/94								87.1	126.4					
4500984	01/16/94							147.3	103.6	135.2	0.116				
4500986	01/15/94	9.3	259.2	122.0	373.5	50.0	550.6								
4500999	01/16/94	10.0	258.5	130.0	354.8	51.0	604.9								
4501015	01/16/94	9.1	235.4	125.0	324.7	51.0	549.9								
4501032	01/16/94	9.4	243.9	120.0	374.0	57.0	567.6								
4501041	01/16/94							133.0	88.7	103.3	0.098				0.180
4501050	01/16/94	9.5	272.3	137.0	394.2	56.0	584.4								
4501055	01/16/94	9.2	241.9	127.0	361.6	57.0	564.1								
4501060	01/16/94	9.5	233.8	134.0	370.4	52.0	569.4								
4501066	01/15/94	8.9	235.8	121.0	369.7	50.0	547.0	121.2	86.5	116.0	0.103				
4501081	01/16/94	8.9	239.4	120.0	352.4	53.0	557.5								
4501095	01/16/94	9.3	248.6	120.0	385.2	50.0	568.7								
4501097	01/16/94	8.9	258.8	128.0	349.7	54.0	571.2								
4501122	01/16/94	8.7	227.3	113.0	325.4	52.0	555.4								
4501138	01/16/94	8.8	242.6	120.0	345.8	51.0	559.0								

ROLL NO.	TEST_DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENSILE (lbs)	M.D. ELONG. (%)	C.D. TENSILE (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (in.)	HYDRAULIC TESTS ASTM D 4491 PERMIT. (sec-1)	HYDRAULIC TESTS ASTM D 4491 PERM.(Kv) (cm/sec)	HYDRAULIC TESTS WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
4501148	01/16/94	8.6	244.1	116.0	350.3	54.0	546.6								
4501150	01/17/94	8.5	245.7	124.0	345.2	52.0	523.3								
4501151	01/18/94	8.6						132.1	93.9	126.8	0.138				
4501168	01/17/94	8.5	242.3	121.0	343.4	50.0	529.5								
4501186	01/17/94	8.7	246.8	120.0	350.6	51.0	535.2								
4501232	01/17/94	8.5	224.8	115.0	315.0	53.0	464.0								
4501234	01/17/94	8.3	237.2	120.0	347.4	53.0	464.0								
4501239	01/17/94	8.5	226.6	118.0	335.0	52.0	483.3								
4501249	01/17/94	8.7	247.7	126.0	335.3	51.0	495.5								
4501267	01/17/94	8.5	239.4	122.0	335.3	51.0	463.9								
4501282	01/18/94	8.9						122.2	85.9	111.7	0.109		0.305		0.186
4501285	01/17/94	8.5	252.2	122.0	342.2	53.0	456.4								
4501321	01/18/94	8.3						107.0	86.9	117.1	0.100				0.212
4501325	01/18/94	8.2	248.6	126.0	310.5	53.0	451.2								
4501360	01/18/94	8.3	253.8	123.0	342.9	57.0	450.3		86.4						
4501386	01/18/94	8.5	254.9	127.0	353.3	58.0	452.1								
4501389	01/18/94	8.6						117.0	87.6	109.4	0.113				
4501404	01/18/94	8.4	235.4	117.0	338.4	58.0	454.2								
4501422	01/18/94	8.7	244.1	121.0	325.4	54.0	444.4								
4501439	01/19/94	8.9						129.4	93.2	110.4	0.116				
4501440	01/18/94	8.7	260.1	123.0	360.9	57.0	460.3								
4501448	01/19/94	8.8	255.8	127.0	356.4	59.0	496.6		98.3						
4501466	01/19/94	9.1	236.7	139.0	367.9	68.0	480.8								
4501489	01/19/94	9.1						138.9	91.4	122.0			0.307		0.212
4501501	01/19/94	9.1	225.5	120.0	340.9	52.0	528.7	142.8	96.2	120.8	0.115				
4501528	01/20/94	8.0	230.2	125.0	283.5	58.0	487.1								
4501533	01/20/94	8.5	229.5	123.0	294.5	64.0	489.9								
4501536	01/20/94								92.0	109.5					
4501543	01/20/94	9.0	223.7	124.0	283.3	57.0	443.1								
4501546	01/20/94								94.4	102.3					
4501552	01/20/94								105.5	120.3					
4501554	01/20/94	9.0	269.6	114.0	312.1	58.0	514.6								
4501555	01/20/94	9.1	256.3	115.0	322.0	51.0	534.6								
4501557	01/20/94	8.7	268.0	118.0	319.1	55.0	528.8		92.0						
4501562	01/20/94	9.0	247.7	104.0	320.0	50.0	553.4								

ROLL NO.	TEST_DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENSILE (lbs)	M.D. ELONG. (%)	C.D. TENSILE (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (in.)	HYDRAULIC TESTS ASTM D 4491 PERMIT. (sec-1)	PERM.(Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
4501567	01/20/94	8.3	236.7	113.0	304.9	53.0	499.6								
4501576	01/20/94	8.7	242.6	116.0	315.9	51.0	529.6								
4501589	01/20/94	8.3	262.4	116.0	309.4	53.0	523.1		89.7						
4501598	01/20/94								87.8	106.2					
4501606	01/20/94	8.6	243.7	107.0	310.3	55.0	522.9								
4501613	01/21/94	8.5	238.3	114.0	303.5	52.0	535.5								
4501618	01/21/94	8.5							91.9	121.8	0.125				
4501625	01/21/94	8.3							102.2	110.9	0.124				
4501629	01/21/94	8.3						132.1	104.0	111.4	0.102				
AVERAGE =		9.0	241.7	123.3	339.6	53.6	530.0	129.4	92.6	116.7	0.113	*.**	0.306	***.*	0.198
STD. DEVIATION =		0.6	12.8	7.7	24.1	3.6	50.6	11.8	6.1	9.2	0.012	*.**	0.001	***.*	0.017

05/03/94

POLYFELT AMERICAS
PACKING LIST

4/29/94

ORDER NO 11971

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	TS650180360 15B	4500833
2	TS650180360 15B	4500840
3	TS650180360 15B	4500850
4	TS650180360 15B	4500852
5	TS650180360 15B	4500861
6	TS650180360 15B	4500867
7	TS650180360 15B	4500868
8	TS650180360 15B	4500869
9	TS650180360 15B	4500870
10	TS650180360 15B	4500871
11	TS650180360 15B	4500873
12	TS650180360 15B	4500874
13	TS650180360 15B	4500875
14	TS650180360 15B	4500877
15	TS650180360 15B	4500879
16	TS650180360 15B	4500880
17	TS650180360 15B	4500881
18	TS650180360 15B	4500882
19	TS650180360 15B	4500883
20	TS650180360 15B	4500884
21	TS650180360 15B	4500885
22	TS650180360 15B	4500886
23	TS650180360 15B	4500887
24	TS650180360 15B	4500889
25	TS650180360 15B	4500891
26	TS650180360 15B	4500892
27	TS650180360 15B	4500896
28	TS650180360 15B	4500915
29	TS650180360 15B	4500916
30	TS650180360 15B	4500917
31	TS650180360 15B	4500918
32	TS650180360 15B	4500919
TOTAL ROLLS FOR TS650180360 15B		32
33	TS650180360E5B	4500835
34	TS650180360E5B	4500836
35	TS650180360E5B	4500926
36	TS650180360E5B	4500927
37	TS650180360E5B	4500929
38	TS650180360E5B	4500930
39	TS650180360E5B	4500931
40	TS650180360E5B	4500932
41	TS650180360E5B	4500933
42	TS650180360E5B	4500934
43	TS650180360E5B	4500935
44	TS650180360E5B	4500936

Not on Truck

05/03/94

POLYFELT AMERICAS
PACKING LIST

4/29/94

ORDER NO 11971

5-9-94

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	TS650180360 15B	4500833
2	TS650180360 15B	4500840
3	TS650180360 15B	4500850
4	TS650180360 15B	4500852
5	TS650180360 15B	4500861
6	TS650180360 15B	4500867
7	TS650180360 15B	4500868
8	TS650180360 15B	4500869
9	TS650180360 15B	4500870
10	TS650180360 15B	4500871
11	TS650180360 15B	4500873
12	TS650180360 15B	4500874
13	TS650180360 15B	4500875
14	TS650180360 15B	4500877
15	TS650180360 15B	4500879
16	TS650180360 15B	4500880
17	TS650180360 15B	4500881
18	TS650180360 15B	4500882
19	TS650180360 15B	4500883
20	TS650180360 15B	4500884
21	TS650180360 15B	4500885
22	TS650180360 15B	4500886
23	TS650180360 15B	4500887
24	TS650180360 15B	4500889
25	TS650180360 15B	4500891
26	TS650180360 15B	4500892
27	TS650180360 15B	4500896
28	TS650180360 15B	4500915
29	TS650180360 15B	4500916
30	TS650180360 15B	4500917
31	TS650180360 15B	4500918
32	TS650180360 15B	4500919
TOTAL ROLLS FOR TS650180360 15B		32
33	TS650180360E5B	4500835
34	TS650180360E5B	4500836
35	TS650180360E5B	4500926
36	TS650180360E5B	4500927
37	TS650180360E5B	4500929
38	TS650180360E5B	4500930
39	TS650180360E5B	4500931
40	TS650180360E5B	4500932
41	TS650180360E5B	4500933
42	TS650180360E5B	4500934
43	TS650180360E5B	4500935
44	TS650180360E5B	4500936

AL
USING ROLL #4500915
TO replace # 4500919 THAT
WAS NOT ON Last Load.

Mark

47	TS650180360E5B	4500939
48	TS650180360E5B	4500940

POLYFELT AMERICAS
PACKING LIST

4/29/94

ORDER NO 11971

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
49	TS650180360E5B	4500941
50	TS650180360E5B	4500947
51	TS650180360E5B	4500948
52	TS650180360E5B	4500949

TOTAL ROLLS FOR TS650180360E5B 20

TOTAL ROLLS FOR ORDER 52

Rec'd 05/02/94

POLYFELT AMERICAS
PACKING LIST

4/29/94

ORDER NO 12641

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	TS650180T6015B	4500792
2	TS650180T6015B	4500793
3	TS650180T6015B	4500794
4	TS650180T6015B	4500795
5	TS650180T6015B	4500797
6	TS650180T6015B	4500798
7	TS650180T6015B	4500808
8	TS650180T6015B	4500811
9	TS650180T6015B	4500812
10	TS650180T6015B	4500815
11	TS650180T6015B	4500817
12	TS650180T6015B	4500834
13	TS650180T6015B	4500837
14	TS650180T6015B	4500838
15	TS650180T6015B	4500839
16	TS650180T6015B	4500841
17	TS650180T6015B	4500843
18	TS650180T6015B	4500844
19	TS650180T6015B	4500899
20	TS650180T6015B	4500900
21	TS650180T6015B	4500901
22	TS650180T6015B	4500902
23	TS650180T6015B	4500903
24	TS650180T6015B	4500905
25	TS650180T6015B	4500908
26	TS650180T6015B	4500910
27	TS650180T6015B	4500911
28	TS650180T6015B	4500914
29	TS650180T6015B	4500921
30	TS650180T6015B	4500922
31	TS650180T6015B	4500923
32	TS650180T6015B	4500925
33	TS650180T6015B	4501289
34	TS650180T6015B	4501290
35	TS650180T6015B	4501291
36	TS650180T6015B	4501292
37	TS650180T6015B	4501296
38	TS650180T6015B	4501332
39	TS650180T6015B	4501341
40	TS650180T6015B	4501353
41	TS650180T6015B	4501503
42	TS650180T6015B	4501507
43	TS650180T6015B	4501513
44	TS650180T6015B	4501514

TOTAL ROLLS FOR TS650180T6015B

45	TS650180T6015B	4500950
[illegible]	TS650180T6015B	4500951

48 TS6501803620E5B 4500953

POLYFELT AMERICAS
PACKING LIST

[illegible] 94 Page 2

ORDER NO 10641

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
49	TS6501803620E5B	4500954
50	TS6501803620E5B	4500956
51	TS6501803620E5B	4500957

TOTAL ROLLS FOR TS6501803620E5B

TOTAL ROLLS FOR ORDER 51

Al Tarney

from Truck
05/10/94

POLYFELT AMERICAS
PACKING LIST

5/06/94

ORDER NO 12664

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	TS650180360158	4501392
2	TS650180360158	4501392
3	TS650180360158	4501393
4	TS650180360158	4501400
5	TS650180360158	4501401
6	TS650180360158	4501402
7	TS650180360158	4501404
8	TS650180360158	4501409
9	TS650180360158	4501421
10	TS650180360158	4501422
11	TS650180360158	4501425
12	TS650180360158	4501426
13	TS650180360158	4501430
14	TS650180360158	4501431
15	TS650180360158	4501432
16	TS650180360158	4501433
17	TS650180360158	4501457
18	TS650180360158	4501459
19	TS650180360158	4501461
20	TS650180360158	4501463
21	TS650180360158	4501464
22	TS650180360158	4501465
23	TS650180360158	4501466
24	TS650180360158	4501467
25	TS650180360158	4501468
26	TS650180360158	4501470
27	TS650180360158	4501471
28	TS650180360158	4501472
29	TS650180360158	4501473
30	TS650180360158	4501474
31	TS650180360158	4501475
32	TS650180360158	4501476
33	TS650180360158	4501477
34	TS650180360158	4501478
35	TS650180360158	4501479
36	TS650180360158	4501480
37	TS650180360158	4501481
38	TS650180360158	4501485
39	TS650180360158	4501486
40	TS650180360158	4501489
41	TS650180360158	4501490
42	TS650180360158	4501491
43	TS650180360158	4501492
44	TS650180360158	4501493
45	TS650180360158	4501494
46	TS650180360158	4501495
47	TS650180360158	4501497
48	TS650180360158	4501557
49	TS650180360158	4501558

51	TS650180360158	4501560

POLYFELT AMERICAS
PACKING LIST

5/06/94

ORDER NO 12664

LINE NUMBER	ITEM NUMBER	ROLL NUMBER

TOTAL ROLLS FOR TS650180360158 51

TOTAL ROLLS FOR ORDER 51

A member of OMV Gruppe

APR 1995
Received
Rust
#492900

Polyfelt Americas

March 31, 1995

Rust Remedial Services
I-Plex
41 Atlantic Ave
Woburn, MA 08101

SUBJ: POLYFELT TS1000 Geotextile Certificate of Compliance

RE : Order #15691, 15692 Job #2236 Industri-Plex Remedial Site

Dear Sir/Madam

This letter certifies that Polyfelt TS1000, shipped on 3/31/95, manufactured by Polyfelt Americas, meets or exceeds product requirements listed below and was shipped from lot # 50032.

PROPERTY	TEST PROCEDURE	MINIMUM(1)	
Weight	ASTM D 5261	16.0	oz/yd2
Thickness	ASTM D 5199	180	mil
Grab Strength	ASTM D 4632	350	lbs
Tear Strength	ASTM D 4533	120	lbs
Mullen Burst	ASTM D 3786	550	psi
Puncture Resistance	ASTM D 4833	185	lbs
A.O.S.	ASTM D 4751	.150	mm
		(100)	US Sieve

(1) Values in weaker principle direction. All minimum values represent minimum average roll values (i.e. test results from any sampled roll in a lot, tested in accordance with ASTM D 4759-88 shall meet or exceed the minimum values listed.

Polyfelt Americas issues this letter of certification to indicate our commitment to providing our customers with a quality product which will meet or exceed the minimum average roll values in accordance with the applicable American Society for Testing and Materials (ASTM) test method.

Sincerely,

Warren Sickler
QA Manager/Applications Engineer

Polyfelt Americas

1000 Abernathy Road
Building 400, Suite 825
Atlanta, Georgia 30328

Tel: (404) 668-2119
Fax: (404) 668-2116

03/28/95

PRODUCT GRADE: TS 1000

LOT NUMBER: 55032

COLOR: BEIGE

ROLL DIM.: 13ft x 300ft

POLYFELT AMERICAS
MQA/MQC LABORATORY
EVERGREEN, ALABAMA

TEST ROLLS LOT SUMMARY

REVIEWED BY:

QA _____

ENGINEER _____

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENS. (lbs)	M.D. ELONG. (%)	C.D. TENS. (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (mils)	HYDRAULIC TESTS ASTM D4491 PERMIT. (sec-1)	HYDRAULIC TESTS ASTM D4491 PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
5508735	03/14/95	17.3	410.5	152.3	495.9	83.2	790.5								
5508740	03/14/95	18.3	437.7	154.5	512.8	87.6	802.8								
5508745	03/14/95	16.7	447.9	161.3	528.9	92.1	754.8								
5508754	03/14/95	16.7						201.9	147.2	177.9	203	0.68	0.413	60.2	0.137
5508763	03/14/95	16.1	426.2	156.8	514.0	91.8	726.1								
5508777	03/14/95	16.2	427.0	151.2	505.1	88.7	727.5								
5508784	03/14/95	16.6	440.6	155.0	522.6	88.0	764.5	200.5	151.1	172.8	191				
5508802	03/14/95	16.6	431.3	148.5	517.1	91.4	767.6								
5508820	03/14/95	16.0	417.6	154.3	525.1	86.3	728.3								
5508838	03/15/95	16.7	422.6	149.1	525.0	85.9	768.5								
5508856	03/15/95	16.7	414.9	148.8	549.2	90.5	802.1	214.0	159.1	185.2	221				
5508865	03/15/95	16.3	413.9	153.0	534.1	92.0	806.0	214.4	165.2	200.8					
5508882	03/15/95	16.5	405.1	143.8	528.5	90.1	778.5								
5508892	03/15/95	16.6	416.3	136.7	400.5	71.8	777.0								
5508909	03/16/95	19.2	455.9	147.0	534.7	78.3	846.4	205.9	130.5	166.9	206				
5508914	03/16/95	18.4	438.1	132.2	521.6	79.0	780.2								
5508920	03/16/95	18.6	437.1	140.5	499.7	82.3	776.1								
5508925	03/16/95	18.4	458.9	135.4	514.1	82.8	774.4								
5508927	03/16/95	17.7	447.6	135.5	491.1	80.4	754.4								
5508941	03/16/95	16.3	405.9	138.1	431.3	74.3	693.0	188.1	141.9	156.8	187				
5508955	03/16/95	16.2	418.0	141.0	442.8	75.1	696.5								
5508960	03/16/95	16.5	406.6	137.8	450.3	78.3	698.9	195.8	144.3	170.1	187	0.95	0.450	71.0	0.150
5508968	03/16/95	16.1	397.4	135.5	440.0	74.8	658.4								
5508973	03/16/95	16.8	422.7	134.8	482.1	76.3	730.4								
5508986	03/16/95	16.1	421.9	138.4	487.1	77.8	695.8								
5508990	03/16/95	16.7	410.5	134.6	464.5	75.1	763.7								
5509000	03/17/95	16.6	416.6	134.6	468.6	75.7	755.5	207.7	157.2	172.4	199				
5509018	03/17/95	16.1	404.8	136.0	474.5	76.8	756.2								
5509031	03/17/95	16.2	391.9	137.8	439.0	73.2	736.9								
5509038	03/17/95	16.6	421.4	136.4	468.6	74.8	771.0								
5509049	03/17/95	16.7						203.2	131.2	160.5	199				

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENS. (lbs)	M.D. ELONG. (%)	C.D. TENS. (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (mils)	HYDRAULIC TESTS ASTM D4491 PERMIT. (sec-1)	HYDRAULIC TESTS ASTM D4491 PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
5509056	03/17/95	16.9	426.8	140.8	480.1	77.7	817.5								
5509074	03/17/95	16.8	399.5	134.4	458.5	76.8	685.2								
5509092	03/17/95	16.4	419.6	139.9	458.9	74.0	747.1								
5509110	03/17/95	16.5	436.5	139.1	473.3	76.5	761.7							8736	
5509127	03/17/95	16.3	396.1	133.2	454.6	72.8	728.5	197.8	125.9	154.0	194			↓	
5509145	03/18/95	16.4	448.2	136.7	474.9	75.0	752.4								
5509148	03/18/95	16.0	416.4	137.3	465.4	77.3	655.4							9201	
5509153	03/18/95	16.7	407.7	132.5	438.9	73.8	720.9								
5509160	03/18/95	16.7						209.1	151.3	164.5	214				
5509171	03/18/95	16.9	439.9	134.3	493.3	77.3	766.0								
5509176	03/18/95	16.9	427.6	135.8	482.5	79.1	763.6								
5509193	03/18/95	16.3	446.4	141.8	475.6	76.9	807.6	189.9	173.7	170.8	216				
5509211	03/18/95	16.9	444.3	136.8	478.1	79.4	762.6								
5509229	03/18/95	16.0	451.0	140.6	514.2	84.6	740.4								
5509247	03/18/95	16.4	448.3	136.4	503.2	81.6	807.4								
5509254	03/18/95	16.5	472.1	139.4	528.3	84.7	774.2								
5509264	03/18/95	16.8						210.5	161.6	187.8	227				
5509272	03/18/95	16.8	479.4	140.4	509.0	82.2	803.7								
5509290	03/18/95	16.7	457.8	131.4	489.6	80.6	792.6								
5509298	03/19/95	17.0	475.0	143.6	579.5	84.1	806.4								
5509303	03/19/95	18.1	439.7	132.3	538.1	80.8	838.2								
5509320	03/19/95	16.8	460.4	146.1	539.0	83.6	810.3								
5509338	03/19/95	16.5	449.3	134.8	516.9	78.4	765.4								
5509350	03/19/95	16.4						195.6	157.0	187.8	207				
5509356	03/19/95	16.4	451.5	135.0	524.3	83.8	775.0								
5509374	03/19/95	16.0	440.1	133.8	516.4	79.8	729.5								
5509380	03/19/95	16.9	488.1	143.1	558.2	82.2	797.4								
5509398	03/19/95	16.3	431.0	131.2	500.8	72.8	772.0								
5509416	03/20/95	16.1	436.3	133.0	465.3	69.2	777.9								
5509421	03/20/95	16.5	444.6	134.3	579.2	79.3	750.8								
AVERAGE =		16.7	432.1	140.3	495.8	80.3	760.6	202.5	149.8	173.5	203	0.82	0.432	65.6	0.144
STD. DEVIATION =		0.7	21.9	7.4	37.4	5.8	40.9	8.4	14.0	13.2	12	0.19	0.026	7.6	0.009

IS SHIPPING ORDER must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent.

ME OF CARRIER	CARRIER'S NO.	DATE	SHIPPER'S NO.
ROADRUNNER	5296	3/31/95	0370

EIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Shipping Order.

roperty described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning ar on ... ation 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 sa er ... 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 terms and conditions of the Uniform Domestic Straight Bill of Lading set for ... eight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

oper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipp accepted for himself and his assigns.

IOM:
HIPPER
RIGIN)
POLYFELT INC
100 MILLER SELLERS DR.
P.O. BOX 727
EVERGREEN, AL 36401-072

TO:
CONSIGNEE: RUST REMEDIAL SERVICES
I-PLEX REMEDIAL SITE
STREET: 41 ATLANTIC AVE
DESTINATION: WOBURN MA08101
ZIP

LIVERING RRIER | ROUTE | VEHICLE NUMBER

ON DATE: MAR 31

NO. PACKAGES	HM	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	HAZARDOUS MATERIALS #	WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	✔	CHARGES (FOR CARRIER USE ONLY)
36		TS1000 BEIGE 13 X 300 433Y2		16,367	65		
		ENTERED BY JQS.			65		
		SHIP FROM LOT 55032 ONLY.			65		
		USE FLATBED TRUCKS.					
		FAX ROLL NUMBER & CERTS PRIOR TO DELIVERY TO KELLY FAGAN @					
		617-938-7194.					

SHIPPING DATE/TIME: 3/31/95 11:22
ACARD SUPPLIED ORDER# 15691 YEBO# 412819
DRIVER'S SIGNATURE
TOTAL WEIGHT 16,367
EMERGENCY RESPONSE PHONE NO.

EMIT C.O.D. TO:

COD Amt $

C.O.D. FEE:
☐ Prepaid
☐ Collect $

the shipment moves between two ports by a carrier by ... requires that the bill of lading shall state ... carrier's or shipper's weight".

Shipper's imprint in lieu of stamp; not a part of bill of lading proved by the Interstate Commerce Commission.

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 conditions, 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.
(Signature of Consignor)

TOTAL CHARGES $

Freight charges are PREPAID unless marked collect. ☐ Check box if charges are Colle

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 Transportati

POLYFELT INC
Shipper, Per

Agent must detach and retain this Shippin Order and must sign the Original Bill of Ladin

ermanent post office address of shipper

+ MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIAL AS DEFINED IN TITLE 49 OF FEDERAL REGULATIONS.

ORDER NUMBER: 15691 CUSTOMER: RUS100 RUST REMEDIAL SERVICES
I-PLEX REMEDIAL SITE
PO NUMBER: 412819 WOBURN MA08101

LN	ROLL-#	LOT	ITEM-NUMBER	LN	ROLL-#	LOT	ITEM-NUMBER
1	5508762	55032	TS100156300N1B				
2	5508774	55032	TS100156300N1B				
3	5508778	55032	TS100156300N1B				
4	5508793	55032	TS100156300N1B				
5	5508820	55032	TS100156300N1B				
6	5508823	55032	TS100156300N1B				
7	5508866	55032	TS100156300N1B				
8	5508869	55032	TS100156300N1B				
9	5508872	55032	TS100156300N1B				
10	5508873	55032	TS100156300N1B				
11	5508909	55032	TS100156300N1B				
12	5508910	55032	TS100156300N1B				
13	5508911	55032	TS100156300N1B				
14	5508922	55032	TS100156300N1B				
15	5508923	55032	TS100156300N1B				
16	5508924	55032	TS100156300N1B				
17	5508934	55032	TS100156300N1B				
18	5508935	55032	TS100156300N1B				
19	5508938	55032	TS100156300N1B				
20	5508940	55032	TS100156300N1B				
21	5508941	55032	TS100156300N1B				
22	5508942	55032	TS100156300N1B				
23	5508946	55032	TS100156300N1B				
24	5508947	55032	TS100156300N1B				
25	5508949	55032	TS100156300N1B				
26	5508951	55032	TS100156300N1B				
27	5508952	55032	TS100156300N1B				
28	5508958	55032	TS100156300N1B				
29	5508959	55032	TS100156300N1B				
30	5508961	55032	TS100156300N1B				
31	5508962	55032	TS100156300N1B				
32	5509007	55032	TS100156300N1B				
33	5509008	55032	TS100156300N1B				
34	5509018	55032	TS100156300N1B				
35	5509021	55032	TS100156300N1B				
36	5509022	55032	TS100156300N1B				

HIS MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

ME OF CARRIER	CARRIER'S NO.	DATE	SHIPPER'S NO
ROADRUNNER	4554	4/03/95	[illegible]

ECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of receipt by the carrier of the property described in the Original Bill of Lading.
omi described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning a
ser oration 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 s
op ll 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 terms and conditions of the Uniform Domestic Straight Bill of Lading set fo
ri Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.
ipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the ship d accepted for himself and his assigns.

ROM:
SHIPPER
ORIGIN)

TO:
CONSIGNEE: RUST REMEDIAL SERVICES
T-PLEX REMEDIAL SITE
STREET: 11 ATLANTIC AVE
DESTINATION: WOBURN ZIP: M08101

ELIVERING ARRIER | ROUTE | VEHICLE NUMBER

NO. PACKAGES	▲ HM	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	ERG #	*WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	✔	CHARGES (FOR CARRIER USE ONL
2E		T81000 BEIGE 13 X 300 [illegible]		16,367	65		
		ENTERED BY JOS			65		
		MUST SHIP FROM LOT 55032 ONLY.			65		
		FAX ROLL NUMBERS & CERTS PRIOR TO DELIVERY TO KELLY FAGAN @					
		617-938-7194.					
		CONTACT: KELLY FAGAN @ 617-938-7194.					

SHIPPING DATE/TIME: 4/03/95 14:11
PLACARDS SUPPLIED: YES NO
ORDER # 15692 PO# 41019
DRIVER'S SIGNATURE
TOTAL WEIGHT 16,367
EMERGENCY RESPONSE PHONE NO.

EMIT C.O.D. TO:

COD Amt $

C.O.D. FEE:
☐ Prepaid
☐ Collect $

If th ment moves between two ports by a carrier by wat w requires that the bill of lading shall state whe "carrier's or shipper's weight".

Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

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 conditions, 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.
(Signature of Consignor)

TOTAL CHARGES $

Freight charges are PREPAID unless marked collect. ☐ Check box if charges are Coll

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 Transporta

Shipper, Per Agent, Per

Permanent post office address of shipper

+ MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIAL AS DEFINED IN TITLE 49 OF FEDERAL REGULATIONS.

RUN DATE: MAR 31, 1995 - 17:23

POLYFELT AMERICAS, INC
PAGE 0001

ORDER NUMBER: 15692 CUSTOMER: RUS100 RUST REMEDIAL SERVICES
I-PLEX REMEDIAL SITE
PO NUMBER: 412819 WOBURN MA08101

LN	ROLL-#	LOT	ITEM-NUMBER	LN	ROLL-#	LOT	ITEM-NUMBER
1	5508736	55032	TS100156300N1B				
2	5508738	55032	TS100156300N1B				
3	5508744	55032	TS100156300N1B				
4	5508745	55032	TS100156300N1B				
5	5508746	55032	TS100156300N1B				
6	5508749	55032	TS100156300N1B				
7	5508754	55032	TS100156300N1B				
8	5508759	55032	TS100156300N1B				
9	5508761	55032	TS100156300N1B				
10	5508763	55032	TS100156300N1B				
11	5508765	55032	TS100156300N1B				
12	5508766	55032	TS100156300N1B				
13	5508769	55032	TS100156300N1B				
14	5508771	55032	TS100156300N1B				
15	5508772	55032	TS100156300N1B				
16	5508776	55032	TS100156300N1B				
17	5508779	55032	TS100156300N1B				
18	5508780	55032	TS100156300N1B				
19	5508786	55032	TS100156300N1B				
20	5508787	55032	TS100156300N1B				
21	5508791	55032	TS100156300N1B				
22	5508792	55032	TS100156300N1B				
23	5508795	55032	TS100156300N1B				
24	5508802	55032	TS100156300N1B				
25	5508819	55032	TS100156300N1B				
26	5508822	55032	TS100156300N1B				
27	5508839	55032	TS100156300N1B				
28	5508867	55032	TS100156300N1B				
29	5508868	55032	TS100156300N1B				
30	5508870	55032	TS100156300N1B				
31	5508874	55032	TS100156300N1B				
32	5508933	55032	TS100156300N1B				
33	5508936	55032	TS100156300N1B				
34	5508939	55032	TS100156300N1B				
35	5508945	55032	TS100156300N1B				
36	5508956	55032	TS100156300N1B				

A member of OMV Gruppe

04/11/95

APR 1995
Received
Rust
#492900

Polyfelt Americas

RUST REMEDIAL SERVICES
I-PLEX
41 ATLANTIC AVE
WOBURN MA 08101

SUBJECT: POLYFELT TS1000 Geotextile Certificate of Compliance

INDUSTRI-PLEX REMEDIAL SITE 2236 Our Order 15693 Customer ref 412819

Dear Sir/Madam,

This letter certifies that POLYFELT TS1000, shipped FOB Evergreen, Alabama, on 4/10/95, manufactured by Polyfelt Americas meets or exceeds the project requirements listed below and was shipped from Lot(s): 55032

PROPERTY	TEST PROCEDURE	VALUE(1)	
WEIGHT	ASTM D 5261	16.0	Oz per sq yd
THICKNESS	ASTM D 5199	180.0	*Mil
GRAB STRENGTH	ASTM D 4632	350.0	lbs
T STRENGTH	ASTM D 4533	120.0	lbs
MULLEN BURST	ASTM D 3786	550.0	psi
PUNCTURE RESISTANCE	ASTM D 4833	185.0	lbs
A.O.S.	ASTM D 4751	100	*U.S. Std Sieve
A.O.S.	ASTM D 4751	.150	*mm

(1) Values in weaker principle direction. Unless noted otherwise these values represent minimum average roll values (i.e. test results from any sampled roll in a lot, tested in accordance with ASTM D4759-88 shall meet or exceed the minimum values listed)

* Determined at the time of manufacturing, storage and handling conditions which differ from those found in ASTM D4873-88 may influence these properties.
(3) Strongest Principle Direction.

Polyfelt Americas

200 Miller Sellers Drive
Evergreen, Alabama 36401

Tel: (205) 578-4756
Fax: (205) 578-6153

Unless noted otherwise this certification is based on testing conducted by Polyfelt's Quality Assurance & Quality control testing laboratories at the time of manufacturing. Polyfelt Americas issues this letter of certification indicate our commitment to providing our customers with a quality product which will meet or exceed the minimum average roll values in accordance with the applicable American Society for Testing and Materials (ASTM) test method.

Sincerely,

Warren Sickler
QA Manager/Applications Engineer

03/28/95

PRODUCT GRADE: TS 1000

LOT NUMBER: 55032

COLOR: BEIGE

ROLL DIM.: 13ft x 300ft

POLYFELT AMERICAS
MQA/MQC LABORATORY
EVERGREEN, ALABAMA

TEST ROLLS LOT SUMMARY

REVIEWED BY:

QA _____

ENGINEER _____

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENS. (lbs)	M.D. ELONG. (%)	C.D. TENS. (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (mils)	HYDRAULIC TESTS ASTM D4491 PERMIT. (sec-1)	HYDRAULIC TESTS ASTM D4491 PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
5508735	03/14/95	17.3	410.5	152.3	495.9	83.2	790.5								
5508740	03/14/95	18.3	437.7	154.5	512.8	87.6	802.8								
5508745	03/14/95	16.7	447.9	161.3	528.9	92.1	754.8								
5508754	03/14/95	16.7						201.9	147.2	177.9	203	0.68	0.413	60.2	0.137
5508763	03/14/95	16.1	426.2	156.8	514.0	91.8	726.1								
5508777	03/14/95	16.2	427.0	151.2	505.1	88.7	727.5								
5508784	03/14/95	16.6	440.6	155.0	522.6	88.0	764.5	200.5	151.1	172.8	191				
5508802	03/14/95	16.6	431.3	148.5	517.1	91.4	767.6								
5508820	03/14/95	16.0	417.6	154.3	525.1	86.3	728.3								
5508838	03/15/95	16.7	422.6	149.1	525.0	85.9	768.5								
5508856	03/15/95	16.7	414.9	148.8	549.2	90.5	802.1	214.0	159.1	185.2	221				
5508865	03/15/95	16.3	413.9	153.0	534.1	92.0	806.0	214.4	165.2	200.8					
5508882	03/15/95	16.5	405.1	143.8	528.5	90.1	778.5								
5508892	03/15/95	16.6	416.3	136.7	400.5	71.8	777.0								
5508909	03/16/95	19.2	455.9	147.0	534.7	78.3	846.4	205.9	130.5	166.9	206				
5508914	03/16/95	18.4	438.1	132.2	521.6	79.0	780.2								
5508920	03/16/95	18.6	437.1	140.5	499.7	82.3	776.1								
5508925	03/16/95	18.4	459.9	135.4	514.1	82.8	774.4								
5508927	03/16/95	17.7	447.6	135.5	491.1	80.4	754.4								
5508941	03/16/95	16.3	405.9	138.1	431.3	74.3	693.0	188.1	141.9	156.8	187				
5508955	03/16/95	16.2	418.0	141.0	442.8	75.1	696.5								
5508960	03/16/95	16.5	406.6	137.8	450.3	78.3	698.9	195.8	144.3	170.1	187	0.95	0.450	71.0	0.150
5508968	03/16/95	16.1	397.4	135.5	440.0	74.8	658.4								
5508973	03/16/95	16.8	422.7	134.8	482.1	76.3	730.4								
5508986	03/16/95	16.1	421.9	138.4	487.1	77.8	695.8								
5508990	03/16/95	16.7	410.5	134.6	464.5	75.1	763.7								
5509000	03/17/95	16.6	416.6	134.6	468.6	75.7	755.5	207.7	157.2	172.4	199				
5509018	03/17/95	16.1	404.8	136.0	474.5	76.8	756.2								
5509031	03/17/95	16.2	391.9	137.8	439.0	73.2	736.9								
5509038	03/17/95	16.6	421.4	136.4	468.6	74.8	771.0								
5509049	03/17/95	16.7						203.2	131.2	160.5	199				

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENS. (lbs)	M.D. ELONG. (%)	C.D. TENS. (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (mils)	HYDRAULIC TESTS ASTM D4491 PERMIT. (sec-1)	HYDRAULIC TESTS ASTM D4491 PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
5509056	03/17/95	16.9	426.8	140.8	480.1	77.7	817.5								
5509074	03/17/95	16.8	399.5	134.4	458.5	76.8	685.2								
5509092	03/17/95	16.4	419.6	139.9	458.9	74.0	747.1								
5509110	03/17/95	16.5	436.5	139.1	473.3	76.5	761.7								
5509127	03/17/95	16.3	396.1	133.2	454.6	72.8	728.5	197.8	125.9	154.0	194				
5509145	03/18/95	16.4	448.2	136.7	474.9	75.0	752.4								
5509148	03/18/95	16.0	416.4	137.3	465.4	77.3	655.4								
5509153	03/18/95	16.7	407.7	132.5	438.9	73.8	720.9								
5509160	03/18/95	16.7						209.1	151.3	164.5	214				
5509171	03/18/95	16.9	439.9	134.3	493.3	77.3	766.0								
5509176	03/18/95	16.9	427.6	135.8	482.5	79.1	763.6								
5509193	03/18/95	16.3	446.4	141.8	475.6	76.9	807.6	189.9	173.7	170.8	216				
5509211	03/18/95	16.9	444.3	136.8	478.1	79.4	762.6								
5509229	03/18/95	16.0	451.0	140.6	514.2	84.6	740.4								
5509247	03/18/95	16.4	448.3	136.4	503.2	81.6	807.4								
5509254	03/18/95	16.5	472.1	139.4	528.3	84.7	774.2								
5509264	03/18/95	16.8						210.5	161.6	187.8	227				
5509272	03/18/95	16.8	479.4	140.4	509.0	82.2	803.7								
5509290	03/18/95	16.7	457.8	131.4	489.6	80.6	792.6								
5509298	03/19/95	17.0	475.0	143.6	579.5	84.1	806.4								
5509303	03/19/95	18.1	439.7	132.3	538.1	80.8	838.2								
5509320	03/19/95	16.8	460.4	146.1	539.0	83.6	810.3								
5509338	03/19/95	16.5	449.3	134.8	516.9	78.4	765.4								
5509350	03/19/95	16.4						195.6	157.0	187.8	207				
5509356	03/19/95	16.4	451.5	135.0	524.3	83.8	775.0								
5509374	03/19/95	16.0	440.1	133.8	516.4	79.8	729.5								
5509380	03/19/95	16.9	488.1	143.1	558.2	82.2	797.4								
5509398	03/19/95	16.3	431.0	131.2	500.8	72.8	772.0								
5509416	03/20/95	16.1	436.3	133.0	465.3	69.2	777.9								
5509421	03/20/95	16.5	444.6	134.3	579.2	79.3	750.8								
AVERAGE =		16.7	432.1	140.3	495.8	80.3	760.6	202.5	149.8	173.5	203	0.82	0.432	65.6	0.144
STD. DEVIATION =		0.7	21.9	7.4	37.4	5.8	40.9	8.4	14.0	13.2	12	0.19	0.026	7.6	0.009

IIS MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

ME OF CARRIER	CARRIER'S NO.	DATE	SHIPPER'S NO.
WILEY SANDERS	53233	4/10/95	[illegible]

CEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of receipt by the carrier of the property described in the Original Bill of Lading.
propert described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning ar so poration 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 sa ot 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 terms and conditions of the Uniform Domestic Straight Bill of Lading set for n freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment
operator hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipp accepted for himself and his assigns.

ROM:
HIPPER
RIGIN)
[illegible]

TO:
CONSIGNEE: RUST REMEDIAL SERVICES I-PLEX
STREET: 41 ATLANTIC AVE
DESTINATION: WOBURN MA08101
ZIP

LIVERING RRIER	ROUTE	VEHICLE NUMBER

NO. PACKAGES	* HM	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	ERG #	*WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	✓	CHARGES (FOR CARRIER USE ONLY)
60		TS1000 BEIGE 13 X 300 433Y2		27,279	65		
		ENTERED BY JGS.			65		
		MUST SHIP FROM LOT #55032. DO NOT USE A FLATBED TRUCK.					
		CONTACT: KELLY FAGAN @617-938-7190 FAX ROLL NUMBERS & CERTS					
		AND PACKING LIST TO KELLY FAGAN @617-938-7194. FILL TO					
		CAPACITY.					

SHIPPING DATE/TIME: 4/10/95 21:45
ACARD SERIES ORDER# 15693 YEP PO# 412019
DRIVER'S SIGNATURE
TOTAL WEIGHT 27,279
EMERGENCY RESPONSE PHONE NO.

EMIT C.O.D. TO:

COD Amt $

C.O.D. FEE:
☐ Prepaid
☐ Collect $

the shipment moves between two ports by a carrier by ter requires that the bill of lading shall state eth carrier's or shipper's weight"

hipper's imprint in lieu of stamp; not a part of bill of lading proved by the Interstate Commerce Commission.

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 conditions, 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.
(Signature of Consignor)

TOTAL CHARGES $

Freight charges are PREPAID unless marked collect. ☐ Check box if charges are Colle

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 Transportat

Shipper, Per John C Dee Agent, Per

ermanent post office address of shipper

+ MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIAL AS DEFINED IN TITLE 49 OF FEDERAL REGULATIONS.

RUN DATE: APR 10, 1995 - 21:33

POLYFELT AMERICAS, INC
PAGE 0001

ORDER NUMBER: 15693 CUSTOMER: RUS100 RUST REMEDIAL SERVICES
I-PLEX
PO NUMBER: 412819 WOBURN MA08101

LN	ROLL-#	LOT	ITEM-NUMBER
1	5508737	55032	TS100156300N1B
2	5508741	55032	TS100156300N1B
3	5508742	55032	TS100156300N1B
4	5508743	55032	TS100156300N1B
5	5508747	55032	TS100156300N1B
6	5508748	55032	TS100156300N1B
7	5508750	55032	TS100156300N1B
8	5508751	55032	TS100156300N1B
9	5508752	55032	TS100156300N1B
10	5508753	55032	TS100156300N1B
11	5508755	55032	TS100156300N1B
12	5508756	55032	TS100156300N1B
13	5508757	55032	TS100156300N1B
14	5508758	55032	TS100156300N1B
15	5508760	55032	TS100156300N1B
16	5508768	55032	TS100156300N1B
17	5508770	55032	TS100156300N1B
18	5508773	55032	TS100156300N1B
19	5508777	55032	TS100156300N1B
20	5508781	55032	TS100156300N1B
21	5508782	55032	TS100156300N1B
22	5508784	55032	TS100156300N1B
23	5508785	55032	TS100156300N1B
24	5508789	55032	TS100156300N1B
25	5508790	55032	TS100156300N1B
26	5508794	55032	TS100156300N1B
27	5508796	55032	TS100156300N1B
28	5508797	55032	TS100156300N1B
29	5508799	55032	TS100156300N1B
30	5508800	55032	TS100156300N1B
31	5508801	55032	TS100156300N1B
32	5508803	55032	TS100156300N1B
33	5508804	55032	TS100156300N1B
34	5508815	55032	TS100156300N1B
35	5508816	55032	TS100156300N1B
36	5508818	55032	TS100156300N1B
37	5508821	55032	TS100156300N1B
38	5508824	55032	TS100156300N1B
39	5508833	55032	TS100156300N1B
40	5508834	55032	TS100156300N1B
41	5508835	55032	TS100156300N1B
42	5508838	55032	TS100156300N1B
43	5508840	55032	TS100156300N1B
44	5508845	55032	TS100156300N1B
45	5508846	55032	TS100156300N1B
46	5508850	55032	TS100156300N1B
47	5508864	55032	TS100156300N1B
48	5508871	55032	TS100156300N1B
49	5508875	55032	TS100156300N1B
50	5508876	55032	TS100156300N1B
51	5508937	55032	TS100156300N1B
52	5508943	55032	TS100156300N1B
53	5508944	55032	TS100156300N1B
54	5508948	55032	TS100156300N1B
55	5508950	55032	TS100156300N1B
56	5508955	55032	TS100156300N1B
57	5508957	55032	TS100156300N1B
58	5509151	55032	TS100156300N1B
59	5509255	55032	TS100156300N1B
60	5509301	55032	TS100156300N1B

A member of OWV Gruppe

7/04/95

Polyfelt Americas

RUST REMEDIAL SERVICES
I-PLEX
41 ATLANTIC AVE
WOBURN MA 08101

SUBJECT: POLYFELT TS1000 Geotextile Certificate of Compliance

INDUSTRI-PLEX REMEDIAL SITE 2236 Our Order 15694 Customer ref 412819

Dear Sir/Madam,

This letter certifies that POLYFELT TS1000, shipped FOB Evergreen, Alabama, on 5/03/95, manufactured by Polyfelt Americas meets or exceeds the project requirements listed below and was shipped from Lot(s): 55032

PROPERTY	TEST PROCEDURE	VALUE(1)	
WEIGHT	ASTM D 5261	16.0	Oz per sq yd
THICKNESS	ASTM D 5199	180.0	*Mil
GRAB STRENGTH	ASTM D 4632	350.0	lbs
TEAR STRENGTH	ASTM D 4533	120.0	lbs
MULLEN BURST	ASTM D 3786	550.0	psi
PUNCTURE RESISTANCE	ASTM D 4833	185.0	lbs
O.S.	ASTM D 4751	100	*U.S. Std Sieve
A.O.S.	ASTM D 4751	.150	*mm

(1) Values in weaker principle direction. Unless noted otherwise these values represent minimum average roll values (i.e. test results from any sampled roll in a lot, tested in accordance with ASTM D4759-88 shall meet or exceed the minimum values listed)
* Determined at the time of manufacturing, storage and handling conditions which differ from those found in ASTM D4873-88 may influence these properties.
(3) Strongest Principle Direction.

Unless noted otherwise this certification is based on testing conducted by Polyfelt's Quality Assurance & Quality control testing laboratories at the time of manufacturing. Polyfelt Americas issues this letter of certification to indicate our commitment to providing our customers with a quality product which will meet or exceed the minimum average roll values in accordance with the applicable American Society for Testing and Materials (ASTM) test method.

Sincerely,

Warren Sickler
QA Manager

Polyfelt Americas
200 Miller Sellers Drive
Evergreen, Alabama 36401
Tel: (205) 578-4756
Fax: (205) 578-6153

03/28/95

PRODUCT GRADE: TS 1000

LOT NUMBER: 55032

COLOR: BEIGE

ROLL DIM.: 13ft x 300ft

POLYFELT AMERICAS
MQA/MQC LABORATORY
EVERGREEN, ALABAMA

TEST ROLLS LOT SUMMARY

REVIEWED BY:

QA _____

ENGINEER _____

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENS. (lbs)	M.D. ELONG. (%)	C.D. TENS. (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR CD (lbs)	THICKNESS ASTM D5199 (mils)	HYDRAULIC TESTS ASTM D4491 PERMIT. (sec-1)	PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
5508735	03/14/95	17.3	410.5	152.3	495.9	83.2	790.5								
5508740	03/14/95	18.3	437.7	154.5	512.8	87.6	802.8								
5508745	03/14/95	16.7	447.9	161.3	528.9	92.1	754.8								
5508754	03/14/95	16.7						201.9	147.2	177.9	203	0.68	0.413	60.2	0.137
5508763	03/14/95	16.1	426.2	156.8	514.0	91.8	726.1								
5508777	03/14/95	16.2	427.0	151.2	505.1	88.7	727.5								
5508784	03/14/95	16.6	440.6	155.0	522.6	88.0	764.5	200.5	151.1	172.8	191				
5508802	03/14/95	16.6	431.3	148.5	517.1	91.4	767.6								
5508820	03/14/95	16.0	417.6	154.3	525.1	86.3	728.3								
5508838	03/15/95	16.7	422.6	149.1	525.0	85.9	768.5								
5508856	03/15/95	16.7	414.9	148.8	549.2	90.5	802.1	214.0	159.1	185.2	221				
5508865	03/15/95	16.3	413.9	153.0	534.1	92.0	806.0	214.4	165.2	200.8					
5508882	03/15/95	16.5	405.1	143.8	528.5	90.1	778.5								
5508892	03/15/95	16.6	416.3	136.7	400.5	71.8	777.0								
5508909	03/16/95	19.2	455.9	147.0	534.7	78.3	846.4	205.9	130.5	166.9	206				
5508914	03/16/95	18.4	438.1	132.2	521.6	79.0	780.2								
5508920	03/16/95	18.6	437.1	140.5	499.7	82.3	776.1								
5508925	03/16/95	18.4	458.9	135.4	514.1	82.8	774.4								
5508927	03/16/95	17.7	447.6	135.5	491.1	80.4	754.4								
5508941	03/16/95	16.3	405.9	138.1	431.3	74.3	693.0	188.1	141.9	156.8	187				
5508955	03/16/95	16.2	418.0	141.0	442.8	75.1	696.5								
5508960	03/16/95	16.5	406.6	137.8	450.3	78.3	698.9	195.8	144.3	170.1	187	0.95	0.450	71.0	0.150
5508968	03/16/95	16.1	397.4	135.5	440.0	74.8	658.4								
5508973	03/16/95	16.8	422.7	134.8	482.1	76.3	730.4								
5508986	03/16/95	16.1	421.9	138.4	487.1	77.8	695.8								
5508990	03/16/95	16.7	410.5	134.6	464.5	75.1	763.7								
5509000	03/17/95	16.6	416.6	134.6	468.6	75.7	755.5	207.7	157.2	172.4	199				
5509018	03/17/95	16.1	404.8	136.0	474.5	76.8	756.2								
5509031	03/[illegible]/95	16.2	391.9	137.8	439.0	73.2	736.9								
5509038	03/[illegible]/95	16.6	421.4	136.4	468.6	74.8	771.0								
5509049	03/17/95	16.7						203.2	131.2	160.5	199				

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENS. (lbs)	M.D. ELONG. (%)	C.D. TENS. (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (mils)	HYDRAULIC TESTS ASTM D4491 PERMIT. (sec-1)	HYDRAULIC TESTS ASTM D4491 PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
5509056	03/17/95	16.9	426.8	140.8	480.1	77.7	817.5								
5509074	03/17/95	16.8	399.5	134.4	458.5	76.8	685.2								
5509092	03/17/95	16.4	419.6	139.9	458.9	74.0	747.1								
5509110	03/17/95	16.5	436.5	139.1	473.3	76.5	761.7								
5509127	03/17/95	16.3	396.1	133.2	454.6	72.8	728.5	197.8	125.9	154.0	194				
5509145	03/18/95	16.4	448.2	136.7	474.9	75.0	752.4								
5509148	03/18/95	16.0	416.4	137.3	465.4	77.3	655.4								
5509153	03/18/95	16.7	407.7	132.5	438.9	73.8	720.9								
5509160	03/18/95	16.7						209.1	151.3	164.5	214				
5509171	03/18/95	16.9	439.9	134.3	493.3	77.3	766.0								
5509176	03/18/95	16.9	427.6	135.8	482.5	79.1	763.6								
5509193	03/18/95	16.3	446.4	141.8	475.6	76.9	807.6	189.9	173.7	170.8	216				
5509211	03/18/95	16.9	444.3	136.8	478.1	79.4	762.6								
5509229	03/18/95	16.0	451.0	140.6	514.2	84.6	740.4								
5509247	03/18/95	16.4	448.3	136.4	503.2	81.6	807.4								
5509254	03/18/95	16.5	472.1	139.4	528.3	84.7	774.2								
5509264	03/18/95	16.8						210.5	161.6	187.8	227				
5509272	03/18/95	16.8	479.4	140.4	509.0	82.2	803.7								
5509290	03/18/95	16.7	457.8	131.4	489.6	80.6	792.6								
5509298	03/19/95	17.0	475.0	143.6	579.5	84.1	806.4								
5509303	03/19/95	18.1	439.7	132.3	538.1	80.8	838.2								
5509320	03/19/95	16.8	460.4	146.1	539.0	83.6	810.3								
5509338	03/19/95	16.5	449.3	134.8	516.9	78.4	765.4								
5509350	03/19/95	16.4						195.6	157.0	187.8	207				
5509356	03/19/95	16.4	451.5	135.0	524.3	83.8	775.0								
5509374	03/19/95	16.0	440.1	133.8	516.4	79.8	729.5								
5509380	03/19/95	16.9	488.1	143.1	558.2	82.2	797.4								
5509398	03/19/95	16.3	431.0	131.2	500.8	72.8	772.0								
5509416	03/20/95	16.1	436.3	133.0	465.3	69.2	777.9								
5509421	03/20/95	16.5	444.6	134.3	579.2	79.3	750.8								
AVERAGE =		16.7	432.1	140.3	495.8	80.3	760.6	202.5	149.8	173.5	203	0.82	0.432	65.6	0.144
STD. DEVIATION =		0.7	21.9	7.4	37.4	5.8	40.9	8.4	14.0	13.2	12	0.19	0.026	7.6	0.009

HIS MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

ME OF CARRIER	CARRIER'S NO.	DATE	SHIPPER'S NO.
[illegible]	556252	[illegible]	[illegible]

CEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of receipt by the carrier of the property described in the Original Bill of Lading.
property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier being understood throughout this contract [illegible] rson 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 [illegible] operty 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 terms and conditions of the Uniform Domestic Straight Bill of [illegible] in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment.
ipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the ship d accepted for himself and his assigns.

ROM:
HIPPER
ORIGIN) [illegible]

TO:
CONSIGNEE [illegible]
STREET [illegible]
DESTINATION [illegible] ZIP

ELIVERING ARRIER	ROUTE	VEHICLE NUMBER

NO. PACKAGES	+ HM	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	ERG #	*WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	✔	CHARGES (FOR CARRIER USE ONL
53		TS1000 BEIGE 15 x 300 43312		20,464	FD		
		ENTERED BY [illegible]			05		
		MUST SHIP FROM [illegible] #55032 BETWEEN ROLLS [illegible] & 9151.					
		FAX ROLL NUMBERS AND CERTS TO KELLY FOGAN @617-434-7194					
		DO NOT USE A FLATBED TRUCK.					
		SHIPPING DATE/TIME: 5/03/95 21:33					
		ORDER # 15334 PO# 412313 ***NET WEIGHT***		21,769			

'LACARDS SUPPLIED	DRIVER'S SIGNATURE	EMERGENCY RESPONSE PHONE NO.
☐ YES ☐ NO		

EMIT C.O.D. TO:

COD Amt $

C.O.D. FEE:
☐ Prepaid
☐ Collect $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

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 conditions, 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.
(Signature of Consignor)

TOTAL CHARGES $

Freight charges are PREPAID unless marked collect.
☐ Check box if charges are Colle

"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 Transportati

Shipper, Per [illegible] Agent, Per. [illegible]

'ermanent post office address of shipper

+ MARK WITH "X" TO DESIGNATE HAZARDOUS MATERIAL AS DEFINED IN TITLE 49 OF FEDERAL REGULATIONS.

RUN DATE: MAY 03, 1995 - 21:25 POLYFELT AMERICAS, INC

ORDER NUMBER: 15694 CUSTOMER: RUS100 RUST REMEDIAL SERVICES
I-PLEX
PO NUMBER: 412819 WOBURN MA08101

LN	ROLL-#	LOT	ITEM-NUMBER	LN	ROLL-#	LOT	ITEM-NUMBER
1	5508919	55032	TS100156300N1B	49	5509140	55032	TS100156300N1B
2	5508920	55032	TS100156300N1B	50	5509141	55032	TS100156300N1B
3	5508921	55032	TS100156300N1B	51	5509142	55032	TS100156300N1B
4	5508929	55032	TS100156300N1B	52	5509143	55032	TS100156300N1B
5	5508953	55032	TS100156300N1B	53	5509144	55032	TS100156300N1B
6	5508954	55032	TS100156300N1B	54	5509145	55032	TS100156300N1B
7	5508977	55032	TS100156300N1B	55	5509146	55032	TS100156300N1B
8	5508979	55032	TS100156300N1B	56	5509147	55032	TS100156300N1B
9	5508980	55032	TS100156300N1B	57	5509148	55032	TS100156300N1B
10	5508981	55032	TS100156300N1B	58	5509149	55032	TS100156300N1B
11	5508982	55032	TS100156300N1B				
12	5508988	55032	TS100156300N1B				
13	5508997	55032	TS100156300N1B				
14	5509004	55032	TS100156300N1B				
15	5509005	55032	TS100156300N1B				
16	5509025	55032	TS100156300N1B				
17	5509033	55032	TS100156300N1B				
18	5509049	55032	TS100156300N1B				
19	5509061	55032	TS100156300N1B				
[illegible]	509065	55032	TS100156300N1B				
21	5509069	55032	TS100156300N1B				
22	5509070	55032	TS100156300N1B				
23	5509073	55032	TS100156300N1B				
24	5509075	55032	TS100156300N1B				
25	5509080	55032	TS100156300N1B				
26	5509081	55032	TS100156300N1B				
27	5509083	55032	TS100156300N1B				
28	5509090	55032	TS100156300N1B				
29	5509111	55032	TS100156300N1B				
30	5509112	55032	TS100156300N1B				
31	5509113	55032	TS100156300N1B				
32	5509114	55032	TS100156300N1B				
33	5509115	55032	TS100156300N1B				
34	5509116	55032	TS100156300N1B				
35	5509117	55032	TS100156300N1B				
36	5509118	55032	TS100156300N1B				
37	5509119	55032	TS100156300N1B				
38	5509120	55032	TS100156300N1B				
39	5509121	55032	TS100156300N1B				
40	5509122	55032	TS100156300N1B				
41	5509123	55032	TS100156300N1B				
42	5509124	55032	TS100156300N1B				
43	5509125	55032	TS100156300N1B				
44	5509133	55032	TS100156300N1B				
[illegible]	509134	55032	TS100156300N1B				
46	5509135	55032	TS100156300N1B				
47	5509136	55032	TS100156300N1B				
48	5509139	55032	TS100156300N1B				

A member of OWV Gruppe

Polyfelt Americas

July 31, 1995

OHM Remediation
Industriplex Superfund Site
41 Atlantic Avenue
Woburn, MA 01801

SUBJECT: Polyfelt TS1000 Geotextile Certification of Compliance

Dear Ms. Fagan

This letter certifies that POLYFELT TS1000, shipped from Evergreen, Alabama, manufactured by Polyfelt Americas meets or exceeds the project requirements listed below and was shipped from Lot (s). 55032. This material was inspected and found to be needle free.

PROPERTY	TEST PROCEDURE	AVERAGE VALUE TYPICAL	MINIMUM(1)	
Weight	ASTM D 5261	16.8	16	oz/yd2
Thickness	ASTM D 5199	180	180	mil
Grab Strength	ASTM D 4632	480/360	350	lbs
Tear Strength	ASTM D 4533	200/160	120	lbs
Mullen Burst	ASTM D 3786	600	550	psi
Puncture Resistance	ASTM D 4833	190	185	lbs
A.O.S.	ASTM D 4751	<.106	.150	mm
		(>140)	(100)	US Sieve

(1) Values in weaker principle direction. Unless noted otherwise, these values represent minimum average roll values (i.e., test results from any sample roll in a lot, tested in accordance with ASTM D 4759-88 shall meet or exceed the minimum values listed).

Sincerely,

Warren Sickler
QA Manager/Applications Engineer

Polyfelt Americas

200 Miller Sellers Drive
Evergreen, Alabama 36401

Tel: (334) 578-4756
Fax: (334) 578-4963

03/28/95

PRODUCT GRADE: TS 1000

LOT NUMBER: 55032

COLOR: BEIGE

ROLL DIM.: 13ft x 300ft.

POLYFELT AMERICAS
MQA/MQC LABORATORY
EVERGREEN, ALABAMA

TEST ROLLS LOT SUMMARY

REVIEWED BY:

QA

ENGINEER

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENS. (lbs)	M.D. ELONG. (%)	C.D. TENS. (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR ASTM D4533 CD (lbs)	THICKNESS ASTM D5199 (mils)	HYDRAULIC TESTS ASTM D4491 PERMIT. (sec-1)	HYDRAULIC TESTS ASTM D4491 PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
5508735	03/14/95	17.3	410.5	152.3	495.9	83.2	790.5								
5508740	03/14/95	18.3	437.7	154.5	512.8	87.6	802.8								
5508745	03/14/95	16.7	447.9	161.3	528.9	92.1	754.8								
5508754	03/14/95	16.7						201.9	147.2	177.9	203	0.68	0.413	60.2	0.137
5508763	03/14/95	16.1	426.2	156.8	514.0	91.8	726.1								
5508777	03/14/95	16.2	427.0	151.2	505.1	88.7	727.5								
5508784	03/14/95	16.6	440.6	155.0	522.6	88.0	764.5	200.5	151.1	172.8	191				
5508802	03/14/95	16.6	431.3	148.5	517.1	91.4	767.6								
5508820	03/14/95	16.0	417.6	154.3	525.1	86.3	728.3								
5508838	03/15/95	16.7	422.6	149.1	525.0	85.9	768.5								
5508856	03/15/95	16.7	414.9	148.8	549.2	90.5	802.1	214.0	159.1	185.2	221				
5508865	03/15/95	16.3	413.9	153.0	534.1	92.0	806.0	214.4	165.2	200.8					
5508882	03/15/95	16.5	405.1	143.8	528.5	90.1	778.5								
5508892	03/15/95	16.6	416.3	136.7	400.5	71.8	777.0								
5508909	03/16/95	19.2	455.9	147.0	534.7	78.3	846.4	205.9	130.5	166.9	206				
5508914	03/16/95	18.4	438.1	132.2	521.6	79.0	780.2								
5508920	03/16/95	18.6	437.1	140.5	499.7	82.3	776.1								
5508925	03/16/95	18.4	458.9	135.4	514.1	82.8	774.4								
5508927	03/16/95	17.7	447.6	135.5	491.1	80.4	754.4								
5508941	03/16/95	16.3	405.9	138.1	431.3	74.3	693.0	188.1	141.9	156.8	187				
5508955	03/16/95	16.2	418.0	141.0	442.8	75.1	696.5								
5508960	03/16/95	16.5	406.6	137.8	450.3	78.3	698.9	195.8	144.3	170.1	187	0.95	0.450	71.0	0.150
5508968	03/16/95	16.1	397.4	135.5	440.0	74.8	658.4								
5508973	03/16/95	16.8	422.7	134.8	482.1	76.3	730.4								
5508986	03/16/95	16.1	421.9	138.4	487.1	77.8	695.8								
5508990	03/16/95	16.7	410.5	134.6	464.5	75.1	763.7								
5509000	03/17/95	16.6	416.6	134.6	468.6	75.7	755.5	207.7	157.2	172.4	199				
5509018	03/17/95	16.1	404.8	136.0	474.5	76.8	756.2								
5509031	03/17/95	16.2	391.9	137.8	439.0	73.2	736.9								
5509038	03/17/95	16.6	421.4	136.4	468.6	74.8	771.0								
5509049	03/17/95	16.7						203.2	131.2	160.5	199				

ROLL NO.	TEST DATE	WEIGHT ASTM D5261 (oz/yd2)	GRAB TENSILE/ELONGATION ASTM D4632 M.D. TENS. (lbs)	M.D. ELONG. (%)	C.D. TENS. (lbs)	C.D. ELONG. (%)	M. BURST ASTM D3786 (psi)	PUNCTURE RESISTANCE ASTM D4833 (lbs)	TRAP. TEAR ASTM D4533 MD (lbs)	TRAP. TEAR CD (lbs)	THICKNESS ASTM D5199 (mils)	HYDRAULIC TESTS ASTM D4491 PERMIT. (sec-1)	PERM. (Kv) (cm/sec)	WATER FLOW (gpm/ft2)	A.O.S. ASTM D4751 (mm)
5509056	03/17/95	16.9	426.8	140.8	480.1	77.7	817.5								
5509074	03/17/95	16.8	399.5	134.4	458.5	76.8	685.2								
5509092	03/17/95	16.4	419.6	139.9	458.9	74.0	747.1								
5509110	03/17/95	16.5	436.5	139.1	473.3	76.5	761.7								
5509127	03/17/95	16.3	396.1	133.2	454.6	72.8	728.5	197.8	125.9	154.0	194				
5509145	03/18/95	16.4	448.2	136.7	474.9	75.0	752.4								
5509148	03/18/95	16.0	416.4	137.3	465.4	77.3	655.4								
5509153	03/18/95	16.7	407.7	132.5	438.9	73.8	720.9								
5509160	03/18/95	16.7						209.1	151.3	164.5	214				
5509171	03/18/95	16.9	439.9	134.3	493.3	77.3	766.0								
5509176	03/18/95	16.9	427.6	135.8	482.5	79.1	763.6								
5509193	03/18/95	16.3	446.4	141.8	475.6	76.9	807.6	189.9	173.7	170.8	216				
5509211	03/18/95	16.9	444.3	136.8	478.1	79.4	762.6								
5509229	03/18/95	16.0	451.0	140.6	514.2	84.6	740.4								
5509247	03/18/95	16.4	448.3	136.4	503.2	81.6	807.4								
5509254	03/18/95	16.5	472.1	139.4	528.3	84.7	774.2								
5509264	03/18/95	16.8						210.5	161.6	187.8	227				
5509272	03/18/95	16.8	479.4	140.4	509.0	82.2	803.7								
5509290	03/18/95	16.7	457.8	131.4	489.6	80.6	792.6								
5509298	03/19/95	17.0	475.0	143.6	579.5	84.1	806.4								
5509303	03/19/95	18.1	439.7	132.3	538.1	80.8	838.2								
5509320	03/19/95	16.8	460.4	146.1	539.0	83.6	810.3								
5509338	03/19/95	16.5	449.3	134.8	516.9	78.4	765.4								
5509350	03/19/95	16.4						195.6	157.0	187.8	207				
5509356	03/19/95	16.4	451.5	135.0	524.3	83.8	775.0								
5509374	03/19/95	16.0	440.1	133.8	516.4	79.8	729.5								
5509380	03/19/95	16.9	488.1	143.1	558.2	82.2	797.4								
5509398	03/19/95	16.3	431.0	131.2	500.8	72.8	772.0								
5509416	03/20/95	16.1	436.3	133.0	465.3	69.2	777.9								
5509421	03/20/95	16.5	444.6	134.3	579.2	79.3	750.8								
AVERAGE =		16.7	432.1	140.3	495.8	80.3	760.6	202.5	149.8	173.5	203	0.82	0.432	65.6	0.144
STD. DEVIATION =		0.7	21.9	7.4	37.4	5.8	40.9	8.4	14.0	13.2	12	0.19	0.026	7.6	0.009

A member of OWV Gruppe

Polyfelt Americas

July 31, 1995

OHM Remediation
Industriplex Superfund Site
41 Atlantic Avenue
Woburn, MA 01801

SUBJECT: Polyfelt TS1000 Geotextile Certification of Compliance

Dear Ms. Fagan

This letter certifies that POLYFELT TS1000, shipped from Evergreen, Alabama, manufactured by Polyfelt Americas meets or exceeds the project requirements listed below and was shipped from Lot (s). 55032. This material was inspected and found to be needle free.

PROPERTY	TEST PROCEDURE	AVERAGE VALUE TYPICAL	MINIMUM(1)	
Weight	ASTM D 5261	16.8	16	oz/yd2
Thickness	ASTM D 5199	180	180	mil
Grab Strength	ASTM D 4632	480/360	350	lbs
Tear Strength	ASTM D 4533	200/160	120	lbs
Mullen Burst	ASTM D 3786	600	550	psi
Puncture Resistance	ASTM D 4833	190	185	lbs
A.O.S.	ASTM D 4751	<.106	.150	mm
		(>140)	(100)	US Sieve

(1) Values in weaker principle direction. Unless noted otherwise, these values represent minimum average roll values (i.e., test results from any sample roll in a lot, tested in accordance with ASTM D 4759-88 shall meet or exceed the minimum values listed).

Sincerely,

Warren Sickler
QA Manager/Applications Engineer

Polyfelt Americas

200 Miller Sellers Drive
Evergreen, Alabama 36401

Tel: (334) 578-4756
Fax: (334) 578-4963

NICOLON CORPORATION

Baycor • Nicolon/Mirafi

WILEY SANDERS TRANSPORTATION

Sold To: (Name Only)

Bill of Lading

34046

HIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein and is intended solely for filing records.

:CEIVED, subject to the classification and lawfully filed tariff rates in effect on the date of the issue of this Bill of Lading.

roperty described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier g 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 liver 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 l or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading (1) in the Uniform Freight Classifications in effect he date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation is shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

07-21-95

ORDER NO.

e agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

31399

CONSIGNED TO:	If charges are to be prepaid, write or stamp here, "To be Prepaid." Shipper liable for line haul charges only.	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. NICOLON	The Fibre Boxes used for this shipment conform to the specifications set forth in the box maker's certification thereon, and all other requirements of Rule 41 of the Uniform Freight Classification.
-M NDUSTRIPLEX SUPERFUND SITE 1 ATLANTIC AVENUE OBURN, MA 0181 D#: 412819 PROJECT#: 49200 NTFY: KELLY FABAN (617) 938 7190	PREPAID C.O.D. AMOUNT $ REMIT C.O.D. TO: NICOLON CORPORATION Box 1979, Cleveland Rd. Cornelia, GA 30531	Per NICOLON CORPORATION	

QTY.	SIZE	DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	Back Order Quantity	Total Gross Wt. Pounds
60	13x300.	GEOTEXTILE FABRIC TS1000		25180 ~~30000~~
60	TOTAL /////	TOTAL/////		25180 ~~30000~~

SEAL # 110044

IF PREPAID MAIL FREIGHT BILL IN DUPLICATE WITH COPY OF BILL OF LADING FOR PAYMENT TO:
NICOLON CORPORATION, Box 1979, Cleveland Rd., Cornelia, GA 30531

NICOLON

Per _____

Permanent Post Office Address of Shipper

Box 1979, Cleveland Rd., Cornelia, GA 30531

IF SHIPMENT MOVES BETWEEN TWO PORTS BY A CARRIER BY WATER THE LAW REQUIRES THAT THE BILL OF LADING SHALL STATE WHETHER IS IS CARRIER'S WEIGHT OR SHIPPER'S WEIGHT.

SHIPPER'S IMPRINT IN LIEU OF STAMP NOT PART OF BILL OF LADING APPROVED BY THE INTERSTATE COMMERCE COMMISSION

Driver's signature

Per _____

POLYFELT AMERICAS
PACKING LIST

7/21/95

Received on site 7/26/95

ORDER NO 31399

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	TS100156300N1B	5508916
2	TS100156300N1B	5508927
3	TS100156300N1B	5508985
4	TS100156300N1B	5508991
5	TS100156300N1B	5508992
6	TS100156300N1B	5508993
7	TS100156300N1B	5508994
8	TS100156300N1B	5508995
9	TS100156300N1B	5508996
10	TS100156300N1B	5508999
11	TS100156300N1B	5509000
12	TS100156300N1B	5509002
13	TS100156300N1B	5509003
14	TS100156300N1B	5509010
15	TS100156300N1B	5509013
16	TS100156300N1B	5509014
17	TS100156300N1B	5509015
18	TS100156300N1B	5509017
19	TS100156300N1B	5509019
20	TS100156300N1B	5509020
21	TS100156300N1B	5509023
22	TS100156300N1B	5509024
23	TS100156300N1B	5509038
24	TS100156300N1B	5509042
25	TS100156300N1B	5509052
26	TS100156300N1B	5509053
27	TS100156300N1B	5509054
28	TS100156300N1B	5509055
29	TS100156300N1B	5509056
30	TS100156300N1B	5509057
31	TS100156300N1B	5509058
32	TS100156300N1B	5509059
33	TS100156300N1B	5509060
34	TS100156300N1B	5509062
35	TS100156300N1B	5509063
36	TS100156300N1B	5509064
37	TS100156300N1B	5509066
38	TS100156300N1B	5509067
39	TS100156300N1B	5509068
40	TS100156300N1B	5509071
41	TS100156300N1B	5509074
42	TS100156300N1B	5509076
43	TS100156300N1B	5509077
44	TS100156300N1B	5509082
45	TS100156300N1B	5509085
46	TS100156300N1B	5509087
47	TS100156300N1B	5509088
48	TS100156300N1B	5509089
49	TS100156300N1B	5509092
50	TS100156300N1B	5509093
51	TS100156300N1B	5509094
52	TS100156300N1B	5509095

15

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For More Information
Contact
NICOLON/MIRAFI GROUP
3500 Parkway Lane - Suite 500
Norcross, GA 30092
404/447-6272

POLYFELT AMERICAS
PACKING LIST

7/21/95

ORDER NO 31599

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
53	TS100156300N1B	5509097
54	TS100156300N1B	5509100
55	TS100156300N1B	5509101
56	TS100156300N1B	5509109
57	TS100156300N1B	5509128
58	TS100156300N1B	5509131
59	TS100156300N1B	*5509132
60	TS100156300N1B	5509138

TOTAL ROLLS FOR TS100156300N1B 60

TOTAL ROLLS FOR ORDER 60

* 5508998

NICOLON CORPORATION

Baycor • Nicolon/Mirafi

Bill of Lading

34066

Sold To: (Name Only) POOLE TRUCKLINES

THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein and is intended solely for filing records.

RECEIVED, subject to the classification and lawfully filed tariff rates in effect on the date of the issue of this Bill of Lading.

the [illegible] described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier [illegible] stood 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 [illegible] 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 [illegible] said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading (1) in the Uniform Freight Classifications in effect on the date hereof. If this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

07-26-95

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

ORDER NO. 31399-1

EXIT: EVERGREEN, AL 36401

CONSIGNED TO:	If charges are to be prepaid, write or stamp here, "To be Prepaid." Shipper liable for line haul charges only.	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. NICOLON	The Fibre Boxes used for this shipment conform to the specifications set forth in the box maker's certification thereon, and all other requirements of Rule 41 of the Uniform Freight Classification.
OHM REMEDIATION SVCS INDUSTRIPLEX SUPERFUNE SITE 41 ATLANTIC AVENUE WOBURN, MA. 01801 PO#: 412819 PROJECT#: 492900 NTFY: KELLY ~~FAGAN~~ (609) 588 6451 617-938-7190	PREPAID C.O.D. AMOUNT $ REMIT C.O.D. TO: NICOLON CORPORATION Box 1979, Cleveland Rd. Cornelia, GA 30531	Per NICOLON CORPORATION	

QTY.	SIZE	DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	Back Order Quantity	Total Gross Wt. Pounds
		GEOTEXTILE FABRIC 49160 CL65		
60 RLS	13x300	TS1000		25980
60 RLS		TOTAL //////	TOTAL//	25980
		MUST BE NEEDLE FREE ~~XXX~~ FABRIC.		
		SEAL = 000 3040		

IF PREPAID MAIL FREIGHT BILL IN DUPLICATE WITH COPY OF BILL OF LADING FOR PAYMENT TO:
NICOLON CORPORATION, Box 1979, Cleveland Rd., Cornelia, GA 30531

NICOLON

Permanent Post Office Address of Shipper
Box 1979, Cleveland Rd., Cornelia, GA 30531

*IF SHIPMENT MOVES BETWEEN TWO PORTS BY A CARRIER BY WATER, THE LAW REQUIRES THAT THE BILL OF LADING SHALL STATE WHETHER IS IS CARRIER'S WEIGHT OR SHIPPER'S WEIGHT

*SHIPPER'S IMPRINT IN LIEU OF STAMP NOT A PART OF BILL OF LADING APPROVED BY THE INTERSTATE COMMERCE COMMISSION

Driver's signature

Per

POLYFELT AMERICAS
PACKING LIST

Received 7/31/95 pcw AM

7/26/95

ORDER NO 31399-01

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
1	TS100156300N1B	5508912
2	TS100156300N1B	5508917
3	TS100156300N1B	5508918
4	TS100156300N1B	5508925
5	TS100156300N1B	5508926
6	TS100156300N1B	5508930
7	TS100156300N1B	5508931
8	TS100156300N1B	5508932
9	TS100156300N1B	5508968
10	TS100156300N1B	5508969
11	TS100156300N1B	5508970
12	TS100156300N1B	5508971
13	TS100156300N1B	5508972
14	TS100156300N1B	5508973
15	TS100156300N1B	5508974
16	TS100156300N1B	5508975
17	TS100156300N1B	5508976
18	TS100156300N1B	5508983
19	TS100156300N1B	5508989
20	TS100156300N1B	5509001
21	TS100156300N1B	5509006
22	TS100156300N1B	5509009
23	TS100156300N1B	5509011
24	TS100156300N1B	5509012
25	TS100156300N1B	5509016
26	TS100156300N1B	5509027
27	TS100156300N1B	5509028
28	TS100156300N1B	5509029
29	TS100156300N1B	5509030
30	TS100156300N1B	5509031
31	TS100156300N1B	5509032
32	TS100156300N1B	5509034
33	TS100156300N1B	5509035
34	TS100156300N1B	5509036
35	TS100156300N1B	5509037
36	TS100156300N1B	5509039
37	TS100156300N1B	5509040
38	TS100156300N1B	5509043
39	TS100156300N1B	5509044
40	TS100156300N1B	5509045
41	TS100156300N1B	5509047
42	TS100156300N1B	5509048
43	TS100156300N1B	5509050
44	TS100156300N1B	5509051
45	TS100156300N1B	5509072
46	TS100156300N1B	5509078
47	TS100156300N1B	5509084
48	TS100156300N1B	5509086
49	TS100156300N1B	5509087
50	TS100156300N1B	5509091
51	TS100156300N1B	5509098
52	TS100156300N1B	5509099

For More Information
Contact
NICOLON/MIRAFI GROUP
3500 Parkway Lane - Suite 500
Norcross, GA 30092
404/447-6272

POLYFELT AMERICAS
PACKING LIST

7/26/95

ORDER NO 31399-01

LINE NUMBER	ITEM NUMBER	ROLL NUMBER
53	TS100156300N1B	5509103
54	TS100156300N1B	5509105
55	TS100156300N1B	5509107
56	TS100156300N1B	5509110
57	TS100156300N1B	5509126
58	TS100156300N1B	5509127
59	TS100156300N1B	5509129
60	TS100156300N1B	5509130

TOTAL ROLLS FOR TS100156300N1B 60

TOTAL ROLLS FOR ORDER 60

SYNTHETIC INDUSTRIES

Geosynthetic Products Division

September 19, 1995

OHM Remediation Services Corp
Mark Brown
41 Atlantic Ave
Worburn WA 01801
BoL: 615026, 615031, PO 1012038-2
Fax: 617-938-7194

This is to certify that Product 1601 , a non woven polypropylene fabric, produced by Synthetic Industries will meet the following certifiable minimum average roll values when tested in accordance with the proper ASTM test methods. A minimum average roll value is calculated as the mean minus two standard deviations, yielding a 95 percent confidence level.

PHYSICAL PROPERTY	TEST METHOD	U.S. UNITS	S.I. UNITS
Tensile Strength	ASTM D-4632	380 lbs	1690 N
Elongation	ASTM D-4632	50 %	50 %
Trapezoidal Tear	ASTM D-4533	145 lbs	645 N
Mullen Burst	ASTM D-3786	800 psi	5510 Kpa
Puncture Strength	ASTM D-4833	240 lbs	1065 N
AOS	ASTM D-4751	100 US Standard Sieve	0.150 mm
Permittivity	ASTM D-4491	0.70 sec^{1}	0.70 sec^{1}
Flow Rate	ASTM D-4491	50 gpm/ft	2035 lpm/m^2
U V Resistance	ASTM D-4355	70 %	70 %

Strength Retained after 500 hours exposure in Xenon Arc Weatherometer

Sincerely,

Kent A. Snyder

Kent A. Snyder
Technical Superintendent
Performance Nonwovens Division

Synthetic Industries, Inc.
4019 Industry Drive • Post Office Box 22788 • Chattanooga, Tennessee • 37422 • USA
Telephone • 615-899-0444 • Fax • 615-899-7619 • 1-800-621-0444

Synthetic Industries
Individual Roll Data
Bill of Lading:615026

Roll Number	Product Style	Tensile (MD)	Tensile (XMD)	Elongation (MD)	Elongation (XMD)	Trap Tear (MD)	Trap Tear (XMD)	Mullen Burst	Punct Resist
4015886A	1601	420		77		149			
4016090A	1601	444	769	79	68	169	286	955	312
4016130A	1601	444	747	81	69	154	281	935	294
4016140A	1601	428	756	76	68	158	292	1018	310
4016150A	1601	426	770	75	65	176	321	1000	328
4016160A	1601	434	764	78	67	175	306	875	303
4016170A	1601	457	780	79	66	178	324	1065	318
4016180A	1601	468	781	79	66	182	311	1095	310

Kent A Snyder

UNIFORM STRAIGHT BILL OF LADING - Original - Not Negotiable - Domestic

C & S CPT. DISTRIBUTION

220 CROSS PLAINS BLVD.
DALTON, GEORGIA 30721 Phone (706) 277-9556

Date 9/18/95

BILL OF LADING NO.

SHIPPER'S NO. 5026

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this 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 own railroad, water line, highway route or routes, or within the territory of its highway operations, 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 of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

☐ Accept cash or certified check only.
☐ Customer's check acceptable.

$ C.O.D. _____

$ _____ and remit to _____

Street City State Zip

TRAILER # 50627

SEAL # 993

Subject to Section 7 of conditions. 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.

C & S CPT. DISTRIBUTION
(Signature of Consignor)

IF CHARGES ARE TO BE PREPAID, WRITE OR STAMP HERE, "TO BE PREPAID." Prepaid

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

PER _____
(The signature here acknowledges only the amount prepaid.)

Charges Advanced $

FROM (Shipper):

Name Fibermesh C/O Synthetic Ind

Address

City Dalton State Ga Zip 30720

TO (Consignee): 1st Stop Phone # 1-617-938-7190

Name OHM Remediation Services Corp.

Address 41 Atlantic Ave.

City Woburn State Mass. Zip 01801

MUST DELIVER Pieces _____ Weight _____

To (Consignee): 2nd Stop Phone # _____

Name

Address

City State Zip

MUST DELIVER Pieces _____ Weight _____

To(Consignee): 3rd Stop Phone # _____

Name

Address

City State Zip

MUST DELIVER Pieces _____ Weight _____

TO (Consignee): 4th Stop Phone # _____

Name

Address

City State Zip

MUST DELIVER Pieces _____ Weight _____

ATTACH COPY OF SHIPPERS BILL OF LADING TO STATEMENT.

SEND FREIGHT BILL TO:

UNLESS THE DECLARED VALUE PORTION OF THIS BILL OF LADING IS EXECUTED PROVIDING THE SHIPPER THE OPPORTUNITY TO PAY A HIGHER RATE AND OBTAIN FULL LIABILITY ON THIS SHIPMENT, SHIPPER UNDERSTANDS AND AGREES BY THIS WRITING THAT LIABILITY IS (MAY BE) LIMITED BASED ON THE APPROVED LOWER RATE FOR CARRIAGE AS PROVIDED BY 49 U.S.C. 10730.

NOTE - - THIS SHIPMENT IS NOT MADE AT THE RESTRICTED OR LIMITED VALUATION SPECIFIED IN THE TARIFF OR CLASSIFICATION AT OR UNDER WHICH THE LOWEST RATE IS AVAILABLE UNLESS OTHERWISE INDICATED ON THE FACE HEREOF THE AGREED OR DECLARED VALUE OF THE PROPERTY IS HEREBY SPECIFICALLY STATED BY

THE SHIPPER TO BE NOT EXCEEDING _____ PER _____

UNITS HANDLED	
TOTAL PIECES	TOTAL WEIGHT
45	23876

SHIPPER	CARRIER	TRACTOR NO.	TIME	
	Werner Ent	18064	11:55 AM/PM	2
AUTH SIGNATURE	DRIVER	DATE	PCS.	
	Becker Sparks	9/19/95		

* Mark with "X" to designate Hazardous Materials as defined in the Department of Transportation Regulations. The use of this column is an optional method for identifying hazardous materials on bills of lading, per Section 172.201 (a) (1) (iii) of Title 49 of Federal Regulations.

009728-0996

HM REMEDIATION SERVICES CORP

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

SERVICES CORP

BILL OF LADING #

FLEX SITE
ATLANTIC AVE
BURN, MA

INDUSTRY FLEX
41 ATLANTIC AVE
WOBURN, MA

PERMANENT ADDRESS
50627 993

DATE 801 | SHIPPER 01801

SHIPPER'S NUMBERS

SHIP TO:

TRAILER NO. | SEAL NO.

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.

(SIGNATURE OF CONSIGNOR)

If charges are to be prepaid, write or stamp here, "To Be Prepaid"

PING INSTRUCTIONS

COLLECT ON DELIVERY

COD $

ORDER# --- STYLE ---- CONSTR --- COLOR ---- SIZE

1012038-2

611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016089A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016090A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016091A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016094A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016104A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016111A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016112A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016127A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016129A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016130A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016131A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016132A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016138A
393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016140A
1393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016141A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016144A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016146A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016147A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016148A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016149A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016150A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016151A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016152A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016153A
611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016156A

617-938-7190

CEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any 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 destination. It is mutually agreed, as to each carrier of all of any of said property over all of any portion of said route to destination, and as to each party at any time interested in all or any of said , that every service to be performed over all or any portion shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms ditions are hereby agreed to by the shipper and accepted for himself and his assigns.

615026 PAGE 1

e s[illegible]t moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE-Where the rate is dependent or hi[illegible]e 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 eeding _____ per _____.

	TOTAL YDS.	CASES	BALES	ROLLS	TOTAL PCS.	TOTAL WT.
ER, PER				615026		
T, PER WERNER				CHATTANOOGA, TN		

WOVEN FABRICS DIV OF SYNTHE SHIPPER

DALTON, GA 3/18/99

009728-0000 | STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE | 009728-0000

BILL OF LADING #

)HM REMEDIATION SERVICES CORP | ...VICES CORP

...PLEX SITE | INDUSTRI-PLEX

RIERTLANTIC AVE | 41 ATLANTIC AVE

...BURN, MA | WOBURN, MA

PERMANENT ADDRESS

50627 ~~993~~

DATE 801 | SHIPPER 01801

SHIPPER'S NUMBERS

.D TO:

SHIP TO:

TRAILER NO. | SEAL NO.

Subject to Section 7 of conditions of applicable bi... lading, if this shipment is to be delivered to the co... signee without recourse on the consignor, the co... signor, shall signthe following statement.

The carrier shall not make delivery of this shipme... without payment of freight and all other lawful charge...

(SIGNATURE OF CONSIGNOR)

If charges are to be prepaid, write or stamp here, "To Be Prepaid."

COLLECT ON DELIVERY

COD $

PPING INSTRUCTIONS

ORDER#	STYLE	CONSTR.	COLOR	SIZE			
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016157A 529.2
~~611393~~	~~1601 NW GEO~~	~~.~~	~~G04 BLACK~~	~~180.000~~	~~X~~	~~100.0~~	~~[illegible]~~
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100	
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016162A 529.2
~~611393~~	~~1601 NW GEO~~	~~.~~	~~G04 BLACK~~	~~180.000~~	~~X~~	~~100.0~~	~~4016163A 529.2~~
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016164A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016165A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016166A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016168A 529.2
611393	1601 NW GEO		G04 BLACK	180.000	X	100.0	4016170A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016174A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016175A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016177A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016178A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016179A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016180A 52
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016181A 52
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016182A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016183A 529.2
611393	1601 NW GEO	.	G04 BLACK	180.000	X	100.0	4016185A 529.2
45 ITEM TOTALS						4500.0	

IGHT CLASS:

THETIC CLOTH NOT WOVEN OR KNITTED NMFC 49160 CLASS 65

WEIGHT 72816.25

ECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents ndition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any l 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 destination. It is mutually agreed, as to each carrier of all of any of said property over all of any portion of said route to destination, and as to each party at any time interested in all or any of said ty, that every service to be performed over all or any portion shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification ct on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar l the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the s ns nditions are hereby agreed to by the shipper and accepted for himself and his assigns.

615026 LAST PAGE 2

he shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE-Where the rate is dependent on 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 ceeding _____ per _____.

PER, PER

NT PER

TOTAL YDS.	CASES	BALES	ROLLS	TOTAL PCS.	TOTAL WT.
				45	45

Synthetic Industries
Individual Roll Data
Bill of Lading:615031

Roll Number	Product Style	Tensile (MD)	Tensile (XMD)	Elongation (MD)	Elongation (XMD)	Trap Tear (MD)	Trap Tear (XMD)	Mullen Burst	Punct Resist
4016040A	1601	439	754	76	68	161	283	1018	302
4016100A	1601	456	760	78	67	179	303	950	317
4016110A	1601	444	762	79	69	164	294	975	314

Kent A Snyder

UNIFORM STRAIGHT BILL OF LADING - Original - Not Negotiable - Domestic

C & S CPT. DISTRIBUTION

220 CROSS PLAINS BLVD.
DALTON, GEORGIA 30721 Phone (706) 277-9556

Date 9/18/95

BILL OF LADING NO.

SHIPPER'S NO. 5031

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company 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 own railroad, water line, highway route or routes, or within the territory of its highway operations, 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 of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

☐ Accept cash or certified check only.
☐ Customer's check acceptable.

$ C.O.D. _____

$ _____ and remit to _____

Street City State Zip

TRAILER # 54760

SEAL # 955

Subject to Section 7 of conditions. 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.

C & S CPT. DISTRIBUTION
(Signature of Consignor)

(IF CHARGES ARE TO BE PREPAID, WRITE OR STAMP HERE "TO BE PREPAID.") Prepaid

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

PER _____
(The signature here acknowledges only the amount prepaid.)

Charges Advanced $

FROM (Shipper):
Name Woven Fabrics C/O Synthetic End
Address
City Dalton State Ga Zip 30720

TO (Consignee): 1st Stop Phone # 617-938-7190
Name OHM Remediation Services Corp
Address 41 Atlantic Ave
City Woburn State Mass. Zip 01801

MUST DELIVER Pieces _____ Weight _____

To (Consignee): 2nd Stop Phone # _____
Name
Address
City State Zip

MUST DELIVER Pieces _____ Weight _____

To(Consignee): 3rd Stop Phone # _____
Name
Address
City State Zip

MUST DELIVER Pieces _____ Weight _____

TO (Consignee): 4th Stop Phone # _____
Name
Address
City State Zip

MUST DELIVER Pieces _____ Weight _____

ATTACH COPY OF SHIPPERS BILL OF LADING TO STATEMENT.

SEND FREIGHT BILL TO:

UNLESS THE DECLARED VALUE PORTION OF THIS BILL OF LADING IS EXECUTED PROVIDING THE SHIPPER THE OPPORTUNITY TO PAY A HIGHER RATE AND OBTAIN FULL LIABILITY ON THIS SHIPMENT, SHIPPER UNDERSTANDS AND AGREES BY THIS WRITING THAT LIABILITY IS (MAY BE) LIMITED BASED ON THE APPROVED LOWER RATE FOR CARRIAGE AS PROVIDED BY 49 U.S.C. 10730.

NOTE - - THIS SHIPMENT IS NOT MADE AT THE RESTRICTED OR LIMITED VALUATION SPECIFIED IN THE TARIFF OR CLASSIFICATION AT OR UNDER WHICH THE LOWEST RATE IS AVAILABLE UNLESS OTHERWISE INDICATED ON THE FACE HEREOF THE AGREED OR DECLARED VALUE OF THE PROPERTY IS HEREBY SPECIFICALLY STATED BY

THE SHIPPER TO BE NOT EXCEEDING _____ PER _____

UNITS HANDLED	
TOTAL PIECES	TOTAL WEIGHT
45	23[illegible]

SHIPPER	CARRIER WERNER	TRACTOR NO. 1483	TIME 10:25 AM/PM	2
AUTH SIGNATURE	DRIVER [signature]	DATE 9/19/95	PCS.	

* Mark with "X" to designate Hazardous Materials as defined in the Department of Transportation Regulations. The use of this column is an optional method for identifying hazardous materials on bills of lading, per Section 172.201 (a) (1) (iii) of Title 49 of Federal Regulations.

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

BILL OF LADING # 615031

RIER WERNER

PERMANENT ADDRESS CHATTANOOGA, TN

WOVEN FABRICS DIV OF SYNTHETIC

DALTON, GA | DATE 9/18/95 | SHIPPER 968728-0002

SHIPPER'S NUMBERS

REMEDIATION SERVICES CORP SHIPTO: REMEDIATION SERVICES CORP
PLEX SITE INDUSTRI-PLEX
1 ATLANTIC AVE 41 ATLANTIC AVE
OBURN, WA WOBURN, MA
01301 01801

TRAILER NO. | SEAL NO.

PPING INSTRUCTIONS

COD $ COLLECT ON DELIVERY

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 signthe following statement.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(SIGNATURE OF CONSIGNOR)

If charges are to be prepaid, write or stamp here, "To Be Prepaid" PREPAID

ORDER# --- STYLE ---- CONSTR. --- COLOR ---- Q --- S I Z E -- -ITEM #- WEIGHT

T DEPT CUST PO 1012038-2

1012038-2

	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4015895A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4015993A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016032A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016033A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016037A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016040A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016044A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016056A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016072A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016074A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016075A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016078A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016084A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016085A	529.25
	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016092A	529.25
L	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016093A	529.25
L	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016095A	529.25
L	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016096A	529.25
L	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016097A	529.25
L	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016098A	529.25
.	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016100A	529.25
.	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016101A	529.25
.	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016102A	529.25
.	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016103A	529.25
.	611393	1601	NW GEO	.	G04	BLACK	180.000	X	100.0	4016106A	529.25

CEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents ndition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any 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 destination. It is mutually agreed, as to each carrier of all of any of said property over all of any portion of said route to destination, and as to each party at any time interested in all or any of said ty, that every service to be performed over all or any portion shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification t on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms nditions are hereby agreed to by the shipper and accepted for himself and his assigns.

hen shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE-Where the rate is dependent on 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 ceeding _____ per _____.

	TOTAL YDS.	CASES	BALES	ROLLS	TOTAL PCS.	TOTAL WT.
PER, PER						
NT, PER 615031		PAGE		1		

SHIPPER

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

615031

RIER WERNER

PERMANENT ADDRESS CHATTANOOGA, TN

WOVEN FABRICS DIV OF SYNTHETIC

DALTON, GA | DATE 9/18/95 | SHIPPER

SHIPPER'S NUMBERS

DIOREMEDIATION SERVICES CORP SHIP TO: REMEDIATION SERVICES CORP
PLEX SITE
1 ATLANTIC AVE
OBURN, WA 01801

INDUSTRI-PLEX
41 ATLANTIC AVE
WOBURN, MA 01801

TRAILER NO. | SEAL NO.

PPING INSTRUCTIONS

COD $ COLLECT ON DELIVERY

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 signthe following statement.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(SIGNATURE OF CONSIGNOR)

If charges are to be prepaid, write or stamp here, "To Be Prepaid" PREPAID

ORDER#	STYLE	CONSTR.	COLOR	Q	SIZE	ITEM #-	WEIGHT
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016107A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016108A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016110A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016113A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016114A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016117A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016118A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016119A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016123A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016124A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016128A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016134A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016135A	52[illegible]5
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016137A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016139A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016155A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016158A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016178A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016188A	529.25
611393	1601 NW GEO	.	G04 BLACK	180.000	X 100.0	4016191A	529.25
45 ITEM TOTALS						4500.0	

EIGHT CLASS: WEIGHT
ITHETIC CLOTH NOT WOVEN OR KNITTED NMFC 49160 CLASS 65 23816.25

ECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents ondition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any 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 destination. It is mutually agreed, as to each carrier of all of any of said property over all of any portion of said route to destination, and as to each party at any time interested in all or any of said ty, that every service to be performed over all or any portion shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification ct on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar l the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms onditions are hereby agreed to by the shipper and accepted for himself and his assigns.

the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE-Where the rate is dep[illegible]nt or 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 shi[illegible] be ceeding _____ per _____.

	TOTAL YDS.	CASES	BALES	ROLLS	TOTAL PCS.	TOTAL WT.
PER, PER	4500.0			45	45	23816
NT, PER	615031	LAST PAGE		2		

SHIPPER

TRANSFER NUMBER: 852348 TRAILER NUMBER: 0000 DATE: 9/05/95
TRANSFER DATE: 9/05/95 TIME: 14.55.26

FROM:24 DDC SOUTHSIDE #2 WAREHOUSE
S. DUG GAP ROAD
DALTON, GA
30720

TO:24 DDC SOUTHSIDE #2 WAREHOUSE
S. DUG GAP ROAD
DALTON, GA
30720

****

ROLL#	STYLE	COLOR	SIZE	LENGTH	Q	QTY	UM	WH	BIN	GROSS	CFM
4015882A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4015886A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4015895A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4015912A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4015998A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016026A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016027A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016028A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016031A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016032A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016033A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016034A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016035A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016037A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016039A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016040A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016044A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016052A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016054A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016056A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016068A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016070A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016071A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016072A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016074A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016075A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016078A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016080A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016084A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016085A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016086A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016087A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016088A	1601	G04	180	100.0	1		LY	24	_____	529.25	
4016089A	1601	G04	180	100.0	1		LY	24	_____	529.25	

Rick Hodges

ATTN Peter Newman

RANSFER NUMBER: 852348 TRAILER NUMBER: 0000 DATE: 9/05/95
RANSFER DATE: 9/05/95 TIME: 14.55.26

ROM:24 DDC SOUTHSIDE #2 WAREHOUSE
S. DUG GAP ROAD
DALTON, GA
30720

TO:24 DDC SOUTHSIDE #2 WAREHOUSE
S. DUG GAP ROAD
DALTON, GA
30720

****

ROLL#	STYLE	COLOR	SIZE	LENGTH	Q	QTY	UM	WH	BIN	GROSS CFM
4016090A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016091A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016092A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016093A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016094A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016095A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016096A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016097A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016098A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016099A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016100A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016101A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016102A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016103A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016104A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016105A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016106A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016107A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016108A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016110A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016111A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016112A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016113A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016114A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016117A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016118A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016119A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016121A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016123A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016124A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016125A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016126A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016127A	1601	G04	180	100.0	1		LY	24	_____	529.25
4016128A	1601	G04	180	100.0	1		LY	24	_____	529.25

RANSFER NUMBER: 852348 TRAILER NUMBER: 0000 DATE: 9/05/95
RANSFER DATE: 9/05/95 TIME: 14.55.26

R:24 DDC SOUTHSIDE #2 WAREHOUSE
S. DUG GAP ROAD
DALTON, GA

TO:24 DDC SOUTHSIDE #2 WAREHOUSE
S. DUG GAP ROAD
DALTON, GA

30720 30720

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ROLL#	STYLE	COLOR	SIZE	LENGTH	Q	QTY	UM	WH	BIN	GROSS	CFM
4016129A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016130A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016131A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016132A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016134A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016135A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016137A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016138A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016139A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016140A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016141A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016143A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016144A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016146A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016147A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016148A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016149A	1601	G04	180	100.0	1		LY	24	_____		529.25
6150A	1601	G04	180	100.0	1		LY	24	_____		529.25
6151A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016152A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016153A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016155A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016156A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016157A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016158A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016159A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016160A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016161A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016162A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016163A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016164A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016165A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016166A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016167A	1601	G04	180	100.0	1		LY	24	_____		529.25

RANSFER NUMBER: 852348 TRAILER NUMBER: 0000 DATE: 9/05/95
RANSFER DATE: 9/05/95 TIME: 14.55.26

ROM:24 DDC SOUTHSIDE #2 WAREHOUSE
S. DUG GAP ROAD
DALTON, GA
30720

TO:24 DDC SOUTHSIDE #2 WAREHOUSE
S. DUG GAP ROAD
DALTON, GA
30720

****

ROLL#	STYLE	COLOR	SIZE	LENGTH	Q	QTY	UM	WH	BIN	GROSS	CFM
4016168A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016170A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016174A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016175A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016176A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016177A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016178A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016179A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016180A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016181A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016182A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016183A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016185A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016188A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016189A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016190A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016191A	1601	G04	180	100.0	1		LY	24	_____		529.25
4016192A	1601	G04	180	100.0	1		LY	24	_____		529.25

OF ROLLS 120 63510.00 GROSS 12000.00 LN. YDS.

OF ROLLS 120 63510.00 GROSS 12000.00
OF BALES GROSS
OF CASES GROSS
OF WARPS GROSS

LAST PAGE

LOADED BY: _____ SUPERVISOR.....: _____
SEAL #...: _____ EXT. _____

Amoco Fabrics and Fibers Company
Suite 300
900 Circle 75 Parkway
Atlanta, GA 30339
(770) 956-9025 - Telex 54-2963

April 2, 1997

A.H. Harris
ATTN: John

RE: LES Environmental Services, Industerial Plex Remediation, Woburn MA

Dear Sir:

We wish to advise that Amoco Style 4516 meets the following minimum roll averages:

Property	Test Method	Minimum Average Roll Value (English)	Minimum Average Roll Value (Metric)
Unit Weight	ASTM-D-5261	16 oz/yd^2	540 g/m^2
Grab Tensile	ASTM-D-4632	400 lb	1.78 kN
Grab Elongation	ASTM-D-4632	50 %	50 %
Mullen Burst	ASTM-D-3786	800 psi	5510 kPa
Puncture	ASTM-D-4833	250 lb	1.11 kN
Trapezoidal Tear	ASTM-D-4533	145 lb	.645 kN
UV Resistance	ASTM-D-4355	70 % at 500 hrs	70 % at 500 hrs
AOS	ASTM-D-4751	100 sieve	0.15 mm
Permitivity	ASTM-D-4491	50 gal/min/ft^2	2035 L/min/m^2
Coefficient of Permeability	ASTM-D-4491	0.30 cm/sec	0.30 cm/sec
Thickness	ASTM-D-5199	115 mils	2.90 mm

Amoco Fabrics and Fibers Company Style 4516 in the USA. The values listed are a result of testing conducted in on-site laboratories.

Winfred B. Brown
Sales Engineer
Civil Engineering Fabrics

04D4516.DO

STRAIGHT BILL OF LADING — Original — Not Negotiable.

AMOCO

81525

Shipper's No. 098619

WILLEAM BROS TRL# 819 — Carrier — Carrier's No. 38147

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.

at HAZLEHURST GA. 8-9-96 19 ___ from AMOCO FABRICS AND FIBERS COMPANY

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, 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 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 terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to LRS ENVIRO SERVICES 96670

(Mail or street address of consignee — For purposes of notification only.)

Destination WOBURN, MA 01801 State ___ County ___

Delivery Address ★ 23 ATLANTIC AVE

(★ To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Route ___

Delivering Carrier ___ Car or Vehicle Initials ___ No. 6200000014

No. Packages	Kind of Packages, Description of Articles, Special Marks, and Exceptions	*Weight (sub. to Cor.)	Class or Rate	Check Column
	Bales, Synthetic Fiber, 15 lbs. per cu. ft. or greater, NMFC Item No. 68555, Sub. 8			
	Cases, yarn, Synthetic Fiber, NOI, 12 lbs. per cu. ft. or less, NMFC Item No. 200430, Sub. 2			
	Cases, yarn, Synthetic Fiber, NOI, greater than 12 lbs. per cu. ft., NMFC Item No. 200430, Sub. 3			
	Fabric, NOI, Synthetic Fiber, woven, NMFC Item No. 49265, Sub. 2			
21	Cloth, Synthetic Fiber, not woven, knitted or stitched, NOI, 8 lbs. or greater per cu. ft., NMFC Item No. 49160.	12,422		
	Plastic materials O/T expanded: Flakes, Granules, Pellets, NMFC Item No. 156200.			
	CONTACT# 508-359-7321			
	DEL. 8-9-96			
	CARRIER BILL FREIGHT TO:			
	~~AMOCO FABRICS AND FIBERS CO.~~			
	PROCUREMENT			
	P.O. BOX 21238			
	TULSA, OK 74121-1238			

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.

(Signature of Consignor)

If charges are to be prepaid, stamp here. "To Be Prepaid."

PPD

Received $ ___ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per ___

(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."
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

"The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Uniform Freight Classification."

Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Department of Transportation.

AMOCO FABRICS AND FIBERS COMPANY Shipper, Per ___ Agent, Per ___

Permanent post-office address of shipper. ATLANTA, GA.

3

FG1P-IF01505

AMOCO FABRICS AND FIBERS COMPANY
PACKING LIST
HAZLEHURST MILLS DIVISION
P.O. BOX 836 PHONE 912-375-2561
HAZLEHURST, GEORGIA 31539

P.O. NO.

SHIP DATE: 96/08/08

SHIP TO: LRS ENVIRO SVCS /INDST PLEX REMEDIA CUS.NO: 9667U
23 ATLANTIC AVE
WOBURN MA 01801

WEIGHT 12421.5 PAGE 1
INVOICE NO:
VIA: WILLIAMS BROTHERS TR
B/L NO: 98619
SHIPPERS NO: 38147
LOADED BY: FA GC
STOP NO: 00

SOLD TO: A H HARRIS & SONS INC CUS.NO: 48701
P O BOX 2
NEW BRITAIN, CT 06050

INV	ITEM #	PROD.	PCCT	STYLE-WIDTH	CT	COL.	PB	GR	LIN/YDS	SQ/YDS	POUNDS	P.O. NUMBER	SM	TM	F	DELIVERY NOTE NO.
10	9395091	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395092	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395095	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395098	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395111	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395251	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395252	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395311	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395312	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395313	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395317	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395380	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395383	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395384	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395385	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395386	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395473	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395474	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395477	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395478	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
10	9395479	190/00	00.00	4516 180	00	0007	00	10	100	500	562.5	po36458	00	00	0	008003814701000
TOT/RLS		21							2,100	10,500	11,812.5*					
		21							2,100	10,500	11,812.5**					
		21							2,100	10,500	11,812.5***					

PROGRAM: OE90129C
DATE : 01/11/97
TIME : 14:27

AMOCO FABRICS AND FIBERS COMPANY
PACKING LIST
HAZLEHURST MILLS DIVISION
P.O. BOX 836 PHONE 912-375-2561
HAZLEHURST GA. 31539

SHIP TO: LRS ENVIRO SVCS /INDST PLEX REMEDIA CUST NO: 9667U
23 ATLANTIC AVE
WOBURN MA 01801

GROSS WEIGHT: 9554
VIA: 0080011472-TERRY DICKS TRUCKING CO
TRAILER NO: 825036
B/L NO: 00100
DELIVERY NOTE: 0080073223
SHIP DATE: 97/01/11
STOP NO: 02

SOLD TO: A H HARRIS & SONS INC CUST NO: 48701
P O BOX 2
NEW BRITAIN, CT 06050

ITEM #	PCCT	STYLE	WIDTH	GRD	COLOR	PB	BATCH	UNITS	P O NUMBER	AFFC MATERIAL	CUST SKU	LN
10-2018909	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2018911	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2018957	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2018960	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2018962	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2021704	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2021706	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2021707	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2021708	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2021825	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2021827	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-2021828	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-9479936	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-9479937	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-9480312	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-9480599	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
10-9480681	00.00	4516	180.0000	10	0007	00		100	51034 PO#	42725		01
TOTALS							17 ITEMS *	1,700	YD *	8,500	YD2 *	
							17 ITEMS **	1,700	YD **	8,500	YD2 **	

Amoco Fabrics and Fibers Company
Suite 300
900 Circle 75 Parkway
Atlanta, GA 30339
(770) 956-9025 - Telex 54-2963

April 2, 1997

A.H. Harris
ATTN: John

RE: LRS Enviromental Services, Industerial Plex Remediation, Woburn MA

Dear Sir:

We wish to advise that **Amoco Style 4552** meets the following minimum roll averages:

Property	Test Method	Minimum Average Roll Value (English)	Minimum Average Roll Value (Metric)
Grab Tensile	ASTM-D-4632	180 lb	.800 kN
Grab Elongation	ASTM-D-4632	50 %	50 %
Mullen Burst	ASTM-D-3786	350 psi	2410 kPa
Puncture	ASTM-D-4833	105 lb	.465 kN
Trapezoidal Tear	ASTM-D-4533	75 lb	.330 kN
UV Resistance	ASTM-D-4355	70 % at 500 hrs	70 % at 500 hrs
AOS	ASTM-D-4751	100 sieve	0.15 mm
Permittivity	ASTM-D-4491	1.5 sec^{-1}	1.5 sec^{-1}
Permittivity	ASTM-D-4491	105 gal/min/ft^2	4275 L/min/m^2

Amoco Fabrics and Fibers Company manufactures Style 4552 in the USA. The values listed are a result of testing conducted in on-site laboratories.

Winfred B. Brown

Winfred B. Brown
Sales Engineer
Civil Engineering Fabrics

04024552_JS

AMOCO FABRICS AND FIBERS COMPANY
PACKING LIST
HAZLEHURST MILLS DIVISION
P.O. BOX 836 PHONE 912-375-2561
HAZLEHURST, GEORGIA 31539

NO.

SHIP DATE: 96/11/13

TO: LRS ENVIRO SVCS /INDST PLEX REMEDIA CUS.NO: 9667U
23 ATLANTIC AVE
WOBURN MA 01801

WEIGHT 7902.0 PAGE 1
INVOICE NO:
VIA: AMOCO FLEET
B/L NO: 10195
SHIPPERS NO: 60925
LOADED BY: FA
STOP NO: 00

TO: A H HARRIS & SONS INC CUS.NO: 48701
P O BOX 2
NEW BRITAIN, CT 06050

ITEM #	PROD.	PCCT	STYLE-WIDTH	CT	COL.	PB	GR	LIN/YDS	SQ/YDS	POUNDS	P.O. NUMBER	SM	TM	F	DELIVERY NOTE NO.
2482861-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482862-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482865-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482868-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482869-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482870-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482956-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482957-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482958-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482959-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482960-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2482961-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483020-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483021-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483022-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483102-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483103-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483105-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483110-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483111-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483112-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483150-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483151-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483152-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483153-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483154-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483155-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483195-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483196-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
2483197-	190/00	00.00	4552 180	00	0007	00	10	100	500	234.4	46855 po#	00	00	0	008006092501000
NT/RLS	30							3,000	15,000	7,032.0*					
	30							3,000	15,000	7,032.0**					
	30							3,000	15,000	7,032.0***					

OUR SLIP NUMBER 152253

OFFICE TEL. (401) 434-7700
FAX. (401) 438-4643

J. J. GREGORY & SON, INC.

• 77 HIGHLAND AVENUE (RT. 6)
• EAST PROVIDENCE, R.I. 02914-1227

CONSTRUCTION
INDUSTRIAL
EQUIPMENT
RENTAL
SALES
SERVICE

CUST. P. O. JOHN FIORE DATE 2/21/97

SOLD TO DeMAXIMIS CORP

ADDRESS

JOB LOCATION —SALE— DEL. CURS. [X] CUST. [ ]

QUANTITY	DESCRIPTION	AMOUNT
24	ZG16TF ROLL OF GEOTEXTILE FABRIC @360	
	5% MST	
	TRUCKING	
	MARK INVOICE "INDUSTRIPLEX JOB"	
	CREDIT OK GERRY MCCABE	

INVOICES DUE IN 30 DAYS. 1% MONTHLY SERVICE CHARGE ON PAST DUE ACCOUNTS.

SALESMAN [signature] RECEIVED BY [signature]

We have a complete rental line of AIR COMPRESSORS, PNEUMATIC TOOLS & ACCESSORIES, PUMPS CONCRETE MIXERS, CONCRETE VIBRATORS, TRACTORS, DIGGERS, BUCKETS, STEEL

9 & A/PARAMOUNT PRINTING CO LINCOLN RI 02865 200165-BL

AMERICAN ENGINEERING FABRICS, Inc.

MANUFACTURERS of GEOTEXTILES
1 Coffin Avenue • New Bedford, Massachusetts 02746 • Tel. (508) 993-9622
FAX (508) 994-7156

February 17, 1997

J.J. Gregory & Son, Inc.
Attn: Jim Connolly

RE: Industri-Plex, Woburn, MA

Dear Jim:

This is to certify that AEF Style 1680, shipped to the above job, meets the following minimum physical properties:

Fabric oz/yd2	16
Weight grams/m2	545
Thickness (mils) ASTM D-1777	175
Grab Strength (Lbs.) ASTM D-4632-86	470
Elongation (%) ASTM D-4632-86	100
Puncture Strength ASTM D-4833	300
Muller Burst Strength (PSI) ASTM D-3786-87	800
Trapezoid Tear Strength (Lbs.) ASTM D-4533-85	220
AOS ASTM D-4751	140-200
Water Flow Rate (GPM/ft2) ASTM D-4491	80
Permittivity ASTM D-4491 (Sec-1)	1.1
UV Resistance ASTM D-4355-84 % Strength Retained After 500 Hours	85

Sincerely,

Reuben Weinstein

Reuben Weinstein, President
AMERICAN ENGINEERING FABRICS, INC.

APPENDIX J.1.3

GEOTEXTILE CONFORMANCE TESTS

5600

OCTOBER 1992

IC7-2027

SUMMARY OF GEOTEXTILE CONFORMANCE TEST RESULTS

INDUSTRI-PLEX SITE REMEDIAL TRUST
903-6400
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	0919	0921	0726	380	699	713	722	928	940	951
THICKNESS (mils) ASTM D 1777	95.7	–	–	84.0	101.7	91.9	101.4	98.9	88.1	92.1
MASS/UNIT AREA (oz/sq yd) ASTM D 3776	6.5	–	–	6.7	7.4	6.6	7.7	7.1	6.4	6.9
GRAB STRENGTH (lbs) MD/TD (1) ASTM D 4632	208.1 198.2	– –	– –	219.9 229.6	190.4 189.5	212.3 211.5	217.6 244.9	207.9 195.1	156.4 163.0	194.0 202.7
TRAPEZOIDAL TEAR STRENGTH (lbs) MD/TD (1) ASTM D 4533	76.4 79.4	– –	– –	85.6 102.1	78.4 78.9	77.0 82.9	90.5 98.1	82.1 66.8	56.6 59.6	76.3 83.5
BURST STRENGTH (psi) ASTM D 3786	361	–	–	379	372	398	446	383	339	361
PUNCTURE STRENGTH (lbs) ASTM D 4833	100.4	–	–	129.1	130.5	124.8	148.9	123.2	115.2	122.1
APPARENT OPENING SIZE (mm) (U.S. SIEVE NO.) ASTM D 4751	0.174 80	0.180 80	0.174 80	0.145 100	0.168 80	0.146 100	0.157 80	0.180 80	0.174 80	0.180 80

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

S600

NOVEMBER 1992

IC7-2027

SUMMARY OF GEOTEXTILE CONFORMANCE TEST RESULTS

INDUSTRI-PLEX SITE REMEDIAL TRUST
903-8400
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	2062	2071	-	-	-	-	-	-	-	-
THICKNESS (mils) ASTM D 1777	98.8	90.3	-	-	-	-	-	-	-	-
MASS/UNIT AREA (oz/sq yd) ASTM D 3776	7.1	6.4	-	-	-	-	-	-	-	-
GRAB STRENGTH (lbs)	215.3	185.9	-	-	-	-	-	-	-	-
MD/TD (1)	198.9	190.3	-	-	-	-	-	-	-	-
ASTM D 4632										
TRAPEZOIDAL TEAR STRENGTH	78.7	76.0	-	-	-	-	-	-	-	-
(lbs) MD/TD (1)-	74.6	75.9	-	-	-	-	-	-	-	-
ASTM D 4533										
BURST STRENGTH (psi) ASTM D 3786	372	360	-	-	-	-	-	-	-	-
PUNCTURE STRENGTH (lbs) ASTM D 4833	120.3	109.8	-	-	-	-	-	-	-	-
APPARENT OPENING SIZE (mm)	0.182	0.174	-	-	-	-	-	-	-	-
(U.S. SIEVE NO.)	80	80	-	-	-	-	-	-	-	-
ASTM D 4751										

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

TS650

MAY 1994

933-6142

SUMMARY OF 8-oz GEOTEXTILE CONFORMANCE TEST RESULTS
INDUSTR-PLEX SITE REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	0834	0877	0915	0922	0947	0953	1433	1478	1560	7113
THICKNESS (mils) ASTM D 1777	125.9	129.0	136.8	135.7	130.8	126.1	120.2	119.5	117.9	110.4
MASS/UNIT AREA (oz/sq yd) ASTM D 3776	9.5	10.7	10.1	10.2	9.8	9.4	9.3	8.7	9.0	8.1
GRAB STRENGTH (lbs) MD/TD (1) ASTM D 4632	231.6 324.2	227.9 359.5	232.9 314.6	217.7 319.6	230.2 316.2	218.0 288.0	255.0 314.9	217.7 290.3	244.7 319.3	284.0 294.7
TRAPEZOIDAL TEAR STRENGTH (lbs) MD/TD (1) ASTM D 4533	84.1 120.1	82.3 123.3	78.5 114.0	87.6 116.3	76.3 119.1	83.2 112.4	90.2 96.3	71.8 109.5	87.8 107.8	80.0 103.1
BURST STRENGTH (psi) ASTM D 3786	474	522	487	521	487	458	446	434	464	366
PUNCTURE STRENGTH (lbs) ASTM D 4833	151.7	163.8	147.9	135.7	157.0	142.9	136.8	130.2	144.8	118.3
APPARENT OPENING SIZE (mm) (U.S. SIEVE NO.) ASTM D 4751	0.162 80	0.150 100	0.150 100	0.145 100	0.150 100	0.174 80	0.180 80	0.180 80	0.140 100	0.168 80

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

TS 650

MARCH 1994

933-6142

SUMMARY OF GEOTEXTILE CONFORMANCE TEST RESULTS

INDUSTR-PLEX SITE REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	6397	6431	6749	6775	6789	6845	6863	6904	6923	6952
THICKNESS (mils) ASTM D 1777	117.7	116.3	114.8	110.6	121.7	122.8	115.8	119.9	109.0	107.2
MASS/UNIT AREA (oz/sq yd) ASTM D 3776	8.2	7.9	8.2	8.4	8.8	8.4	8.1	9.0	8.9	8.7
GRAB STRENGTH (lbs) MD/TD (1) ASTM D 4632	221.4 290.1	199.8 272.5	245.3 253.8	241.0 289.0	260.6 296.8	244.1 287.0	247.8 280.5	250.1 290.8	268.2 298.4	269.5 296.6
TRAPEZOIDAL TEAR STRENGTH (lbs) MD/TD (1) ASTM D 4533	76.3 112.4	78.7 113.7	76.9 93.7	87.9 100.7	81.9 105.2	78.0 107.1	85.8 97.8	81.9 98.6	85.5 104.3	85.3 97.9
BURST STRENGTH (psi) ASTM D 3786	375	356	389	395	411	400	394	413	413	415
PUNCTURE STRENGTH (lbs) ASTM D 4833	125.5	121.0	127.8	120.9	129.2	137.3	119.3	120.4	125.0	122.1
APPARENT OPENING SIZE (mm) (U.S. SIEVE NO.) ASTM D 4751	0.150 100	0.174 80	0.162 80	0.150 100	0.156 80	0.150 100	0.150 100	0.145 100	0.145 100	0.145 100

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

TS650

MARCH 1994

933-6142

SUMMARY OF GEOTEXTILE CONFORMANCE TEST RESULTS
INDUSTR-PLEX SITE REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	6963	6972	7004	7111	-	-	-	-	-	-
THICKNESS (mils) ASTM D 1777	110.7	119.6	112.9	119.0	-	-	-	-	-	-
MASS/UNIT AREA (oz/sq yd) ASTM D 3776	8.2	8.8	8.1	8.2	-	-	-	-	-	-
GRAB STRENGTH (lbs) MD/TD (1) ASTM D 4632	246.6 277.8	265.9 314.1	258.0 278.0	252.1 266.7	- -	- -	- -	- -	- -	- -
TRAPEZOIDAL TEAR STRENGTH (lbs) MD/TD (1) ASTM D 4533	82.8 94.5	83.5 101.2	80.7 92.1	82.7 99.1	- -	- -	- -	- -	- -	- -
BURST STRENGTH (psi) ASTM D 3786	385	398	410	390	-	-	-	-	-	-
PUNCTURE STRENGTH (lbs) ASTM D 4833	119.4	132.5	117.9	116.7	-	-	-	-	-	-
APPARENT OPENING SIZE (mm) (U.S. SIEVE NO.) ASTM D 4751	0.145 100	0.145 100	0.125 120	0.168 80	- -	- -	- -	- -	- -	- -

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

TS 650

MAY 1994

933-6142

SUMMARY OF 5 oz GEOTEXTILE
CONFORMANCE TEST RESULTS
INDUSTR-PLEX SITE REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	7134	7154	-	-	-	-	-	-	-	-
THICKNESS (mils) ASTM D 1777	117.3	104.0	-	-	-	-	-	-	-	-
MASS/UNIT AREA (oz/sq yd) ASTM D 3776	8.8	8.2	-	-	-	-	-	-	-	-
GRAB STRENGTH (lbs)	280.1	258.3	-	-	-	-	-	-	-	-
MD/TD (1) ASTM D 4632	278.8	270.0	-	-	-	-	-	-	-	-
TRAPEZOIDAL TEAR STRENGTH	84.9	80.8	-	-	-	-	-	-	-	-
(lbs) MD/TD (1) ASTM D 4533	97.1	93.2	-	-	-	-	-	-	-	-
BURST STRENGTH (psi) ASTM D 3786	391	376	-	-	-	-	-	-	-	-
PUNCTURE STRENGTH (lbs) ASTM D 4833	130.4	117.8	-	-	-	-	-	-	-	-
APPARENT OPENING SIZE (mm)	0.174	0.180	-	-	-	-	-	-	-	-
(U.S. SIEVE NO.) ASTM D 4751	80	80	-	-	-	-	-	-	-	-

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

APRIL 1996

933-6142

SUMMARY OF 16 oz. GEOTEXTILE CONFORMANCE TEST RESULTS

INDUSTR-PLEX SITE REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	8736	8789	8839	8839(R)	8840	8911	8962	9018	9151	9255
THICKNESS (mils) ASTM D 1777	201.0	211.8	208.6	209.7	213.1	220.1	192.5	191.1	223.7	222.2
MASS/UNIT AREA (oz/sq yd) ASTM D 3776	16.7	17.0	15.9	-	-	19.6	16.3	16.0	18.1	16.0
GRAB STRENGTH (lbs)	391.6	405.7	379.1	-	-	457.1	405.8	426.2	471.0	443.2
MD/TD (1) ASTM D 4632	466.0	503.3	496.7	-	-	510.9	426.9	477.8	570.0	498.3
TRAPEZOIDAL TEAR STRENGTH	127.8	140.5	146.5	-	-	132.3	123.0	134.9	165.4	178.1
(lbs) MD/TD (1) ASTM D 4533	155.9	178.4	173.9	-	-	160.6	148.7	151.5	184.9	172.7
BURST STRENGTH (psi) ASTM D 3786	741	734	718	-	-	786	675	679	750	696
PUNCTURE STRENGTH (lbs) ASTM D 4833	223.6	223.6	208.1	-	-	230.2	210.5	216.3	237.9	234.3
APPARENT OPENING SIZE (mm)	0.150	0.168	0.169	0.180	0.180	0.106	0.117	0.135	0.135	0.194
(U.S. SIEVE NO.) ASTM D 4751	100	80	80	80	80	140	120	100	100	70

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

6142GT

APRIL 1996

933-6142

SUMMARY OF 16 oz GEOTEXTILE CONFORMANCE TEST RESULTS

INDUSTR-PLEX SITE REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	9301	-	-	-	-	-	-	-	-	-
THICKNESS (mils) ASTM D 1777	219.1	-	-	-	-	-	-	-	-	-
MASS/UNIT AREA (oz/sq yd) ASTM D 3776	17.9	-	-	-	-	-	-	-	-	-
GRAB STRENGTH (lbs)	426.0	-	-	-	-	-	-	-	-	-
MD/TD (1)	531.4	-	-	-	-	-	-	-	-	-
ASTM D 4632										
TRAPEZOIDAL TEAR STRENGTH	158.9	-	-	-	-	-	-	-	-	-
(lbs) MD/TD (1)	182.5	-	-	-	-	-	-	-	-	-
ASTM D 4533										
BURST STRENGTH (psi) ASTM D 3786	783	-	-	-	-	-	-	-	-	-
PUNCTURE STRENGTH (lbs) ASTM D 4833	228.7	-	-	-	-	-	-	-	-	-
APPARENT OPENING SIZE (mm)	0.168	-	-	-	-	-	-	-	-	-
(U.S. SIEVE NO.)	80	-	-	-	-	-	-	-	-	-
ASTM D 4751										

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

6142GT1

SEPTEMBER 1995

933-6142

SUMMARY OF 16 oz. GEOTEXTILE CONFORMANCE TEST RESULTS

INDUSTR-PLEX SITE REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL NO. DESIGNATION	Reference Value	6036 A	6088 A	6126 A	6143 A	6167 A	6192 A				
THICKNESS (mils) ASTM D 5199		167.7	171.5	174.5	175.7	171.2	161.1	-	-	-	-
MASS/UNIT AREA (oz/sq yd) ASTM D 5261		17.6	17.5	17.7	17.8	17.5	18.3	-	-	-	-
GRAB STRENGTH (lbs)		462.6	466.1	483.8	489.6	476.1	471.0	-	-	-	-
MD/TD (1) ASTM D 4632		746.0	755.1	804.2	746.9	719.2	781.8	-	-	-	-
TRAPEZOIDAL TEAR STRENGTH (lbs)		153.8	164.7	157.0	147.2	152.3	161.4	-	-	-	-
MD/TD (1) ASTM D 4533		252.0	261.6	267.1	253.7	243.3	283.1	-	-	-	-
BURST STRENGTH (psi) ASTM D 3786		959	1010	989	965	1016	1076	-	-	-	-
PUNCTURE STRENGTH (lbs) ASTM D 4833		302.7	287.6	296.8	297.3	302.0	286.0	-	-	-	-
APPARENT OPENING SIZE (mm)		0.106	0.125	0.119	0.131	0.126	0.110	-	-	-	-
(U.S. SIEVE NO.) ASTM D 4751		140	120	120	100	100	120	-	-	-	-

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

6142GT2

Post-it™ Fax Note 7671	Date 9-11-95	# of pages ▶ 7
To PETER NEUMANN	From: HENRY MOCK	
Co./Dept. GCS	Co. GCS	
Phone # 933-6142	Phone # 404-476-9445	
Fax # 617-932-9589	Fax # -9457	

NOVEMBER 1996

933-6142

SUMMARY OF 6 oz GEOTEXTILE CONFORMANCE TEST RESULTS

INDUSTR-PLEX SITE REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	Reference Value	10948-2865	10948-3111	-	-	-	-	-	-	-	-
THICKNESS (mils) ASTM D 5199	> = 75	101.6	92.9	-	-	-	-	-	-	-	-
MASS/UNIT AREA (oz/sq yd) ASTM D 5261	> = 6	7.8	8.3	-	-	-	-	-	-	-	-
GRAB STRENGTH (lbs)	> = 150	191.9	214.1	-	-	-	-	-	-	-	-
MD/TD (1) ASTM D 4632	> = 150	273.3	281.3	-	-	-	-	-	-	-	-
TRAPEZOIDAL TEAR STRENGTH	> = 65	83.9	89.2	-	-	-	-	-	-	-	-
(lbs) MD/TD (1) ASTM D 4533	> = 65	117.6	132.7	-	-	-	-	-	-	-	-
BURST STRENGTH (psi) ASTM D 3786	> = 325	490	497	-	-	-	-	-	-	-	-
PUNCTURE STRENGTH (lbs) ASTM D 4833	> = 85	138.6	141.2	-	-	-	-	-	-	-	-
APPARENT OPENING SIZE (mm)	-	0.150	0.131	-	-	-	-	-	-	-	-
(U.S. SIEVE NO.) ASTM D 4751	> = 70	100	100	-	-	-	-	-	-	-	-

(1) MD/TD corresponds to Machine Direction / Transverse Direction.

6142GT4

SUMMARY OF 16 oz GEOTEXTILE CONFORMANCE TEST RESULTS

INDUSTRI-PLEX SITE REMEDIAL TRUST ENGINEERING SERVICES WOBURN, MASSACHUSETTS

ROLL DESIGNATION	Reference Value	10939-5383	77748	-	-	-	-	-	-	-	-
THICKNESS (mils) ASTM D 5199	> =95	165.4	95.0	-	-	-	-	-	-	-	-
MASS/UNIT AREA (oz/sq yd) ASTM D 5261	> =16	16.2	16.3	-	-	-	-	-	-	-	-
GRAB STRENGTH (lbs)	> =337	461.7	337.0	-	-	-	-	-	-	-	-
MD/TD (1) ASTM D 4632	> =337	605.3	458.8	-	-	-	-	-	-	-	-
TRAPEZOIDAL TEAR STRENGTH	> =110	205.7	113.9	-	-	-	-	-	-	-	-
(lbs) MD/TD (1) ASTM D 4533	> =110	288.8	172.9	-	-	-	-	-	-	-	-
BURST STRENGTH (psi) ASTM D 3786	> =500	1008	500	-	-	-	-	-	-	-	-
PUNCTURE STRENGTH (lbs) ASTM D 4833	> =160	274.5	170.9	-	-	-	-	-	-	-	-
APPARENT OPENING SIZE (mm)	-	0.087	0.075	-	-	-	-	-	-	-	-
(U.S. SIEVE NO.) ASTM D 4751	> =70	170	200	-	-	-	-	-	-	-	-

(1) MD/TD corresponds to Machine Direction / Transverse Direction. 6142QT3

APPENDIX J.2

GEOMEMBRANE

APPENDIX J.2.1

GEOMEMBRANE INVENTORY SUMMARY

ISRT

GEOMEMBRANE INVENTORY SUMMARY

60 MIL HDPE

(AGRU/AMERICA, INC.)

COUNT	DATE SHIPPED	ROLL NUMBER	BATCH NUMBER	ROLL LENGTH (FT)	ROLL WIDTH (FT)
1	8/12/96	546218	E061717	410	22.5
2	8/12/96	546219	E061717	410	22.5
3	8/12/96	546216	E061717	410	22.5
4	8/12/96	546220	E061717	410	22.5
5	8/12/96	546222	E061717	410	22.5
6	8/12/96	546323	E061717	410	22.5
7	8/12/96	546217	E061717	410	22.5
8	10/10/96	638686	F061549	263	22.5

ISRT

GEOMEMBRANE INVENTORY SUMMARY

60 MIL HDPE

(GSE TECHNOLOGY, INC.)

COUNT	DATE SHIPPED	ROLL NUMBER	BATCH NUMBER	ROLL LENGTH (FT)	ROLL WIDTH (FT)
1	9/4/96	C04026801	031696	420	22.5
2	9/4/96	D04026576	030596	315	22.5
3	9/4/96	A04028219	060296	385	22.5
4	9/4/96	B03040138	071796	420	22.5
5	9/4/96	A04028146	052996	385	22.5
6	9/4/96	D04028213	060296	360	22.5
7	9/4/96	D04026586	030596	315	22.5
8	9/4/96	B04026558	030496	325	22.5

APPENDIX J.2.2

RESIN MANUFACTURERS QUALITY CONTROL CERTIFICATES

AGRU/AMERICA INC.

QUALITY CONTROL CERTIFICATES

Chevron

October 9, 1995

Chevron Chemical Company
P.O. Box 7400
Orange, TX 77631-7400
Phone 409 886 7491

Orange Plant

A/A Manufacturing
Attention: Allen Shorr

CERTIFICATE OF ANALYSIS

Product:	9858T	**Lot Number:**	E061717
Chevron Order #	76400.1	**Destination:**	LEOMINSTER
Package:	COCX058623	**Weight (lbs):**	178,400
Customer Order #:	4060	**Ship Date:**	9-5-95

Following is the data on the subject material as determined by the Quality Control Department:

PROPERTY	VALUE	UNITS
Melt Index	0.25	gms/10 min
Density	0.9380	gms/cc

The data set forth herein has been carefully compiled by Chevron Chemical Company. However, there is no warranty of any kind, either expressed or implied, applicable to its use and the user assumes all risk and liability in connection therewith.

Sincerely,

G. G. BERTIN
Supervisor
Quality Control

FAX: 617-821-4754

02597-2

ISPT SUBMITTAL REVIEW
☑ No Exceptions Taken
☐ Make Corrections Noted
☐ Amend - Resubmit
☐ Rejected - Resubmit
Review Completion Date 10/2/96

For inquiry, contact Customer Service at the following number:
FILM, COATING, PIPE APPLICATIONS: 1-800-231-3826
MOLDING APPLICATION: 1-800-231-3828

AGRU / AMERICA, INC.
Subsidiary of AGRU-ALOIS GRUBER GMBH

CERTIFICATE OF CONFORMITY

ROLL # 546323 Lot #: E061717 Liner Type: D-TEX

Measurement
ASTM D-751/D-1593

	METRIC		ENGLISH	
MIN:	1.50	mm	60	mil
MAX:	1.55	mm	61	mil
AVE:	1.51	mm	60	mil

Thickness.....: 1.5mm, 60 mil
Length..... 125 m; 410.1 feet
Width.....: 6.86 m; 22.5 feet

			A/A'S DATA SHEET	TEST RESULTS
Specific Gravity ASTM D-792	Density	g/cc	.948	.949
MFI ASTM D-1238 COND. E GRADE: 9638	Melt Flow Index 190 C /2160 g	g/10 min	.28	.25
Carbon Black Content ASTM D-1603	Range	%	2-3	2.9
Carbon Black Dispersion ASTM D-3015	Level		A-2	A-1
Tensile Strength ASTM D-638 (2 inches / minute)	Yield M.D.	psi	2,200	2,736
	YieldT.D.	psi	2,200	2,922
	BreakM.D.	psi	4,000	4,815
	BreakT.D.	psi	4,000	5,102
Elongation ASTM D-638 Modified (2 inches/minute) Lo = 1.3" Yield Lo = 2.0" Break	Yield M.D.	%	13	17.71
	YieldT.D.	%	13	15.79
	BreakM.D.	%	600	809.3
	BreakT.D.	%	600	911.7
Dimensional Stability ASTM D-1204	M.D.	%	± 1	-.29
	T.D.	%	± 1	-.10
Tear Resistance ASTM D-1004	M.D.	lbs	45	52.9
	T.D.	lbs	45	50.46
Puncture Resistance FTMS 101 Method 2065	Load	lbs	80	99.54
ESCR ASTM D-1693	Minimum Hrs w/o Failures	hrs	3,000	3160

CUSTOMER: ENVIRONMENTAL NETWORK

P.O.#: IP-1

DESTINATION WOBURN, MA

Date: 7/30/96

Signature

Quality Control Department

Form DT60AA.FRM

AGRU / AMERICA, INC.
Subsidiary of AGRU-ALOIS GRUBER GMBH

CERTIFICATE OF CONFORMITY

ROLL # 546222 Lot #: E061717 Liner Type: D-TEX

Measurement
ASTM D-751/D-1593

	METRIC		ENGLISH	
MIN:	1.51	mm	60	mil
MAX:	1.55	mm	61	mil
AVE:	1.52	mm	60	mil

Thickness.....: 1.5mm, 60 mil
Length..... 125 m; 410.1 feet
Width.....:6.86 m; 22.5 feet

			A/A'S DATA SHEET	TEST RESULTS
Specific Gravity ASTM D-792	Density	g/cc	.948	.949
MFI ASTM D-1238 COND. E GRADE: 9638	Melt Flow Index 190 C /2160 g	g/10 min	.28	.25
Carbon Black Content ASTM D-1603	Range	%	2-3	2.9
Carbon Black Dispersion ASTM D-3015	Level		A-2	A-1
Tensile Strength ASTM D-638 (2 inches / minute)	Yield M.D.	psi	2,200	2,736
	YieldT.D.	psi	2,200	2,922
	BreakM.D.	psi	4,000	4,815
	BreakT.D.	psi	4,000	5,102
Elongation ASTM D-638 Modified (2 inches/minute) Lo = 1.3" Yield Lo = 2.0" Break	Yield M.D.	%	13	17.71
	YieldT.D.	%	13	15.79
	BreakM.D.	%	600	809.3
	BreakT.D.	%	600	911.7
Dimensional Stability ASTM D-1204	M.D.	%	± 1	-.29
	T.D.	%	± 1	-.10
Tear Resistance ASTM D-1004	M.D.	lbs	45	52.9
	T.D.	lbs	45	50.46
Puncture Resistance FTMS 101 Method 2065	Load	lbs	80	99.54
ESCR ASTM D-1693	Minimum Hrs w/o Failures	hrs	3,000	3160

CUSTOMER: ENVIRONMENTAL NETWORK
P.O.#: IP-1
DESTINATION WOBURN, MA

Date: 7/30/96
Signature
Quality Control Department

Form DT60AA.FRM

AGRU / AMERICA, INC.
Subsidiary of AGRU-ALOIS GRUBER GMBH

CERTIFICATE OF CONFORMITY

ROLL # 546220 Lot #: E061717 Liner Type: D-TEX

Measurement
ASTM D-751/D-1593

	METRIC		ENGLISH	
MIN:	1.52	mm	60	mil
MAX:	1.57	mm	62	mil
AVE:	1.54	mm	61	mil

Thickness.....: 1.5mm, 60 mil
Length..... 125 m; 410.1 feet
Width.....6.86 m; 22.5 feet

			A/A'S DATA SHEET	TEST RESULTS
Specific Gravity ASTM D-792	Density	g/cc	.948	.949
MFI ASTM D-1238 COND. E GRADE: 9638	Melt Flow Index 190 C /2160 g	g/10 min	.28	.25
Carbon Black Content ASTM D-1603	Range	%	2-3	2.9
Carbon Black Dispersion ASTM D-3015	Level		A-2	A-1
Tensile Strength ASTM D-638 (2 inches / minute)	Yield M.D.	psi	2,200	2,736
	YieldT.D.	psi	2,200	2,922
	BreakM.D.	psi	4,000	4,815
	BreakT.D.	psi	4,000	5,102
Elongation ASTM D-638 Modified (2 inches/minute) Lo = 1.3" Yield Lo = 2.0" Break	Yield M.D.	%	13	17.71
	YieldT.D.	%	13	15.79
	BreakM.D.	%	600	809.3
	BreakT.D.	%	600	911.7
Dimensional Stability ASTM D-1204	M.D.	%	± 1	-.29
	T.D.	%	± 1	-.10
Tear Resistance ASTM D-1004	M.D.	lbs	45	52.9
	T.D.	lbs	45	50.46
Puncture Resistance FTMS 101 Method 2065	Load	lbs	80	99.54
ESCR ASTM D-1693	Minimum Hrs w/o Failures	hrs	3,000	3160

CUSTOMER: ENVIRONMENTAL NETWORK

P.O.#: IP-1

DESTINATION WOBURN, MA

Date: 7/30/96

Signature: [signature]
Quality Control Department

Form DT60AA.FRM

AGRU / AMERICA, INC.
Subsidiary of AGRU-ALOIS GRUBER GMBH

CERTIFICATE OF CONFORMITY

ROLL # 546219 Lot # E061717 Liner Type: D-TEX

Measurement
ASTM D-751/D-1593

	METRIC		ENGLISH	
MIN:	1.52	mm	60	mil
MAX:	1.57	mm	62	mil
AVE:	1.54	mm	61	mil

Thickness.....: 1.5mm, 60 mil
Length..... 125 m; 410.1 feet
Width.....:6.86 m; 22.5 feet

			A/A'S DATA SHEET	TEST RESULTS
Specific Gravity ASTM D-792	Density	g/cc	.948	.949
MFI ASTM D-1238 COND. E GRADE: 9638	Melt Flow Index 190 C /2160 g	g/10 min	.28	.25
Carbon Black Content ASTM D-1603	Range	%	2-3	2.9
Carbon Black Dispersion ASTM D-3015	Level		A-2	A-1
Tensile Strength ASTM D-638 (2 inches / minute)	Yield M.D.	psi	2,200	2,724
	YieldT.D.	psi	2,200	2,841
	BreakM.D.	psi	4,000	4,877
	BreakT.D.	psi	4,000	4,718
Elongation ASTM D-638 Modified (2 inches/minute) Lo = 1.3" Yield Lo = 2.0" Break	Yield M.D.	%	13	18.68
	YieldT.D.	%	13	16.46
	BreakM.D.	%	600	853.4
	BreakT.D.	%	600	907.1
Dimensional Stability ASTM D-1204	M.D.	%	± 1	-.29
	T.D.	%	± 1	-.10
Tear Resistance ASTM D-1004	M.D.	lbs	45	53.90
	T.D.	lbs	45	50.23
Puncture Resistance FTMS 101 Method 2065	Load	lbs	80	99.14
ESCR ASTM D-1693	Minimum Hrs w/o Failures	hrs	3,000	3160

CUSTOMER: ENVIRONMENTAL NETWORK

P.O.#: IP-1

DESTINATION WOBURN, MA

Date: 7/30/96

Signature: [signature]
Quality Control Department

Form DT60AA.FRM

AGRU / AMERICA, INC.
Subsidiary of AGRU-ALOIS GRUBER GMBH

CERTIFICATE OF CONFORMITY

ROLL # 546218 Lot #: E061717 Liner Type: D-TEX

Measurement
ASTM D-751/D-1593

	METRIC		ENGLISH	
MIN:	1.52	mm	60	mil
MAX:	1.58	mm	62	mil
AVE:	1.55	mm	61	mil

Thickness.....: 1.5mm, 60 mil
Length..... 125 m; 410.1 feet
Width.....6.88 m; 22.5 feet

			A/A'S DATA SHEET	TEST RESULTS
Specific Gravity ASTM D-792	Density	g/cc	.948	.949
MFI ASTM D-1238 COND. E GRADE: 9638	Melt Flow Index 190 C /2160 g	g/10 min	.28	.25
Carbon Black Content ASTM D-1603	Range	%	2-3	2.9
Carbon Black Dispersion ASTM D-3015	Level		A-2	A-1
Tensile Strength ASTM D-638 (2 inches / minute)	Yield M.D.	psi	2,200	2,724
	YieldT.D.	psi	2,200	2,841
	BreakM.D.	psi	4,000	4,877
	BreakT.D.	psi	4,000	4,718
Elongation ASTM D-638 Modified (2 inches/minute) Lo = 1.3" Yield Lo = 2.0" Break	Yield M.D.	%	13	18.68
	YieldT.D.	%	13	16.46
	BreakM.D.	%	600	853.4
	BreakT.D.	%	600	907.1
Dimensional Stability ASTM D-1204	M.D.	%	± 1	-.29
	T.D.	%	± 1	-.10
Tear Resistance ASTM D-1004	M.D.	lbs	45	53.90
	T.D.	lbs	45	50.23
Puncture Resistance FTMS 101 Method 2065	Load	lbs	80	99.14
ESCR ASTM D-1693	Minimum Hrs w/o Failures	hrs	3,000	3160

CUSTOMER: ENVIRONMENTAL NETWORK

P.O.#: IP-1

DESTINATION WOBURN, MA

Date: 7/30/96

Signature

Quality Control Department

Form DT60AA.FRM

AGRU / AMERICA, INC.
Subsidiary of AGRU-ALOIS GAUDER GMBH

CERTIFICATE OF CONFORMITY

ROLL # 546217 Lot #: E061717 Liner Type: D-TEX

Measurement
ASTM D-751/D-1593

	METRIC		ENGLISH	
MIN:	1.53	mm	60	mil
MAX:	1.57	mm	62	mil
AVE:	1.54	mm	61	mil

Thickness.....: 1.5mm, 60 mil
Length..... 125 m; 410.1 feet
Width.....:5.86 m; 22.5 feet

			A/A'S DATA SHEET	TEST RESULTS
Specific Gravity ASTM D-792	Density	g/cc	.948	.949
MFI ASTM D-1238 COND. E GRADE: 9638	Melt Flow Index 190 C /2160 g	g/10 min	.28	.25
Carbon Black Content ASTM D-1603	Range	%	2-3	2.9
Carbon Black Dispersion ASTM D-3015	Level		A-2	A-1
Tensile Strength ASTM D-638 (2 inches / minute)	Yield M.D.	psi	2,200	2,724
	YieldT.D.	psi	2,200	2,841
	BreakM.D.	psi	4,000	4,877
	BreakT.D.	psi	4,000	4,718
Elongation ASTM D-638 Modified (2 inches/minute) Lo = 1.3" Yield Lo = 2.0" Break	Yield M.D.	%	13	18.68
	YieldT.D.	%	13	16.46
	BreakM.D.	%	600	853.4
	BreakT.D.	%	600	907.1
Dimensional Stability ASTM D-1204	M.D.	%	± 1	-.29
	T.D.	%	± 1	-.10
Tear Resistance ASTM D-1004	M.D.	lbs	45	53.90
	T.D.	lbs	45	50.23
Puncture Resistance FTMS 101 Method 2065	Load	lbs	80	99.14
ESCR ASTM D-1693	Minimum Hrs w/o Failures	hrs	3,000	3160

CUSTOMER: ENVIRONMENTAL NETWORK

P.O.#: IP-1

DESTINATION WOBURN, MA

Date: 7/30/96

Signature

Quality Control Department

Form QT6CAA.FRM

AGRU / AMERICA, INC.
Subsidiary of AGRU-ALOIS GRUBER GMBH

CERTIFICATE OF CONFORMITY

ROLL # 546216 Lot #: E061717 Liner Type: D-TEX

Thickness.....: 1.5mm, 60 mil
Length..... 125 m; 410.1 feet
Width.....:6.86 m; 22.5 feet

Measurement ASTM D-751/D-1593		METRIC		ENGLISH	
	MIN:	1.54	mm	61	mil
	MAX:	1.59	mm	63	mil
	AVE:	1.55	mm	61	mil

			A/A'S DATA SHEET	TEST RESULTS
Specific Gravity ASTM D-792	Density	g/cc	.948	.949
MFI ASTM D-1238 COND. E GRADE: 9638	Melt Flow Index 190 C /2160 g	g/10 min	.28	.25
Carbon Black Content ASTM D-1603	Range	%	2-3	2.9
Carbon Black Dispersion ASTM D-3015	Level		A-2	A-1
Tensile Strength ASTM D-638 (2 inches / minute)	Yield M.D.	psi	2,200	2,724
	YieldT.D.	psi	2,200	2,841
	BreakM.D.	psi	4,000	4,877
	BreakT.D.	psi	4,000	4,718
Elongation ASTM D-638 Modified (2 inches/minute) Lo = 1.3" Yield Lo = 2.0" Break	Yield M.D.	%	13	18.68
	YieldT.D.	%	13	16.46
	BreakM.D.	%	600	853.4
	BreakT.D.	%	600	907.1
Dimensional Stability ASTM D-1204	M.D.	%	± 1	-.29
	T.D.	%	± 1	-.10
Tear Resistance ASTM D-1004	M.D.	lbs	45	53.90
	T.D.	lbs	45	50.23
Puncture Resistance FTMS 101 Method 2065	Load	lbs	80	99.14
ESCR ASTM D-1693	Minimum Hrs w/o Failures	hrs	3,000	3160

CUSTOMER: ENVIRONMENTAL NETWORK

P.O.#: IP-1

DESTINATION WOBURN, MA

Date: 7/30/96

Signature: [signature]
Quality Control Department

Form DT60AA.FRM

Chevron

July 18, 1996

Chevron Chemical Company
P.O. Box 7400
Orange, TX 77631-7400
Phone 409 886 7491

Orange Plant

Allen Shorr
Agru/america Inc
C/O RVJ
N Leominster, MA 02021

CERTIFICATE OF ANALYSIS

Product:	9638	Lot Number:	F061549
Chevron Order #:	108697	Destination:	N Leominster
Package:	GOCX058439	Weight (lbs):	165,050
Customer Order #:	1192	Ship Date:	7/17/96

Following is the data on the subject material as determined by the Quality Control Department:

Property	Value	Units
Melt Index	0.26	gms/10 min
Density	0.9380	gms/cc

The data set forth herein has been carefully compiled by Chevron Chemical Company. However, there is no warranty of any kind, either expressed or implied, applicable to its use and the user assumes all risk and liability in connection therewith.

Sincerely,

G. G. Bertin
Supervisor
Quality Control

Customer Fax: 617-821-4754

For inquiry, contact Customer Service at the following number:
Film, Coating, Pipe Applications: 1-800-231-3826
Molding Applications: 1-800-231-3828

AGRU / AMERICA, INC.
Subsidiary of AGRU-ALOIS GRUBER GMBH

CERTIFICATE OF CONFORMITY

ROLL # *638686* Lot# *F061549* Liner Type: Smooth

Thickness.....: 1.5mm, 60 mil
Length..... *80* m; *262.5* feet
Width.....:*6.86* m; 22.5 feet

Measurement ASTM D-751/D-1593	METRIC	ENGLISH
MIN:	*1.51* mm	*60* mil
MAX:	*1.56* mm	*61* mil
AVE:	*1.54* mm	*61* mil

			A/A'S DATA SHEET	TEST RESULTS
Specific Gravity ASTM D-792	Density	g/cc	.948	*.949*
MFI ASTM D-1238 COND. E GRADE: 9638	Melt Flow Index 190 C /2160 g	g/10 min	.28	*.26*
Carbon Black Content ASTM D-1603	Range	%	2-3	*2.25*
Carbon Black Dispersion ASTM D-3015	Level		A-2	*A-1*
Tensile Strength ASTM D-638 (2 inches / minute)	Yield M.D.	psi	2,200	*2,570*
	YieldT.D.	psi	2,200	*2,720*
	BreakM.D.	psi	4,000	*4,792*
	BreakT.D.	psi	4,000	*4,692*
Elongation ASTM D-638 Modified (2 inches/minute) Lo = 1.3" Yield Lo = 2.0" Break	Yield M.D	%.	13	*17.90*
	YieldT.D.	%	13	*16.22*
	BreakM.D.	%	700	*811.5*
	BreakT.D	%	700	*858.0*
Dimensional Stability ASTM D-1204	M.D.	%	± 1	*-.25*
	T.D.	%	± 1	*-.10*
Tear Resistance ASTM D-1004	M.D.	lbs	45	*48.59*
	T.D.	lbs	45	*46.25*
Puncture Resistance FTMS 101 Method 2065	Load	lbs	80	*91.49*
ESCR ASTM D-1693	Minimum Hrs w/o Failures	hrs	3,000	*ONGOING*

CUSTOMER: *Environmental Network*

P.O.#: *IP-1*

DESTINATION: *Weare, NH*

Date: *10/8/96*

Signature: [signature]
Quality Control Department

Form SM80AA.FRM

GSE TECHNOLOGY, INC.

QUALITY CONTROL CERTIFICATES

GSE™

Quality Control Certificate

RAILCAR : PSPX2105
MATERIAL : HDT 060 MIL
BATCH # : 071796
ROLL # : 03040138

MANF. DATE : 07/17/1996
PROJECT NAME : ENV NETWORK/LRS ENV
MR NUMBER : 6205-01 PROJECT # : DS3519
LOCATION : WEARE MH 001

TEST PARAMETER	TESTING FREQUENCY	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM METHOD
Minimum Thickness (mil)	EVERY ROLL	54.0 min	59.0 ✓	D 751 NSF Mod.
Carbon Black (%)	5TH ROLL	2.0 to 3.0	2.2 ✓	D 1603
Carbon Black Dispersion	5TH ROLL	A-1/A-2/B-1	A-2 ✓	D 3015
Density (g/cc)	5TH ROLL	0.940 min	0.944 ✓	D 1505 (Meth.A)
Tensile Properties:				
Yield Strength (ppi)	EVERY ROLL	130	179 ✓	
Break Strength (ppi)	EVERY ROLL	75	232 ✓	D 638 Type IV
Yield Elongation (%)	EVERY ROLL	13	16 ✓	NSF 54 modified
Break Elongation (%)	EVERY ROLL	120	476 ✓	
Puncture Resistance (lb)	EVERY ROLL	80	104 ✓	FTMS 101, Meth. 2065
Tear Resistance (lb)	EVERY ROLL	45	58 ✓	D 1004
Dimensional Stability (%)	EVERY ROLL	-2.00 to 2.00	-0.25 ✓	D 1204 (1 hr, 100C)
ESCR (hrs)	1/RAILCAR	1500 min	Pending	D 1693 NSF MOD.

fcw 9/13/96

APPROVED #22 9/3/96 QA

GSE™

Quality Control Certificate

RAILCAR : ACFX96797
MATERIAL : HDT 060 MIL
BATCH # : 030496
ROLL # : 04026558

MANF. DATE : 03/04/1996
PROJECT NAME : ENV NETWORX/LRS ENV
MR NUMBER : 6205-01 PROJECT # : 053519
LOCATION : WEARE MN 001

TEST PARAMETER	TESTING FREQUENCY	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM METHOD
Minimum Thickness (mil)	EVERY ROLL	54.0 min	56.0	D 751 NSF Mod.
Carbon Black (%)	5TH ROLL	2.0 to 3.0	2.6	D 1603
Carbon Black Dispersion	5TH ROLL	A-1/A-2/B-1	A-1	D 3015
Density (g/cc)	5TH ROLL	0.940 min	0.943	D 1505 (Meth.A)
Tensile Properties:				
Yield Strength (ppi)	EVERY ROLL	130	162	
Break Strength (ppi)	EVERY ROLL	75	163	D 638 Type IV
Yield Elongation (%)	EVERY ROLL	13	17	NSF 54 modified
Break Elongation (%)	EVERY ROLL	120	380	
Puncture Resistance (lb)	EVERY ROLL	80	99	FTMS 101, Meth. 2065
Tear Resistance (lb)	EVERY ROLL	45	60	D 1004
Dimensional Stability (%)	EVERY ROLL	-2.00 to 2.00	-0.33	D 1204 (1 hr, 100C)
ESCR (hrs)	1/RAILCAR	1500 min	Pending	D 1693 NSF MOD.

PCN
9/13/96

APPROVED
#22
9/3/96
QA

GSE™

Quality Control Certificate

RAILCAR : ACFX96797
MATERIAL : HDT 060 MIL
BATCH # : 030596
ROLL # : 04026576

MANF. DATE : 03/05/1996
PROJECT NAME : ENV NETWORK/LRS ENV
MR NUMBER : 6205-01 PROJECT # : 083519
LOCATION : WEARE NH 001

TEST PARAMETER	TESTING FREQUENCY	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM METHOD
Minimum Thickness (mil)	EVERY ROLL	54.0 min	57.0 ✓	D 751 NSF Mod.
Carbon Black (%)	5TH ROLL	2.0 to 3.0 ✓	2.4 ✓	D 1603
Carbon Black Dispersion	5TH ROLL	A-1/A-2/B-1	A-1 ✓	D 3015
Density (g/cc)	5TH ROLL	0.940 min	0.943 ✓	D 1505 (Meth.A)
Tensile Properties:				
Yield Strength (ppi)	EVERY ROLL	130	177 ✓	
Break Strength (ppi)	EVERY ROLL	75	180 ✓	D 638 Type IV
Yield Elongation (%)	EVERY ROLL	13	17 ✓	NSF 54 modified
Break Elongation (%)	EVERY ROLL	120	406 ✓	
Puncture Resistance (lb)	EVERY ROLL	80	104 ✓	FTMS 101, Meth. 2065
Tear Resistance (lb)	EVERY ROLL	45	60 ✓	D 1004
Dimensional Stability (%)	EVERY ROLL	-2.00 to 2.00	-0.32	D 1204 (1 hr, 100C)
ESCR (hrs)	1/RAILCAR	1500 min	Pending	D 1693 NSF MOD.

APPROVED
#22
9/3/96
QA

GSE™

Quality Control Certificate

RAILCAR : ACFX96797
MATERIAL : HDT 060 MIL
BATCH # : 030596
ROLL # : 04026586

MANF. DATE : 03/05/1996
PROJECT NAME : ENV NETWORK/LRS ENV
NR NUMBER : 6205-01 PROJECT # : DS3519
LOCATION : WEARE NR 001

TEST PARAMETER	TESTING FREQUENCY	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM METHOD
Minimum Thickness (mil)	EVERY ROLL	54.0 min	56.0	D 751 NSF Mod.
Carbon Black (%)	5TH ROLL	2.0 to 3.0	2.3	D 1603
Carbon Black Dispersion	5TH ROLL	A-1/A-2/B-1	A-1	D 3015
Density (g/cc)	5TH ROLL	0.940 min	0.943	D 1505 (Meth.A)
Tensile Properties:				
Yield Strength (ppi)	EVERY ROLL	130	175	
Break Strength (ppi)	EVERY ROLL	75	178	D 638 Type IV
Yield Elongation (%)	EVERY ROLL	13	17	NSF 54 modified
Break Elongation (%)	EVERY ROLL	120	398	
Puncture Resistance (lb)	EVERY ROLL	80	104	FTMS 101, Meth. 2065
Tear Resistance (lb)	EVERY ROLL	45	61	D 1004
Dimensional Stability (%)	EVERY ROLL	-2.00 to 2.00	-0.32	D 1204 (1 hr, 100C)
ESCR (hrs)	1/RAILCAR	1500 min	Pending	D 1693 NSF MOD.

APPROVED
#22
7/3/96
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GSE™

Quality Control Certificate

RAILCAR : PSPX2082
MATERIAL : NDT 060 MIL
BATCH # : 031696
ROLL # : 04026801

MANF. DATE : 03/16/1996
PROJECT NAME : ENV NETWORK/LRS ENV
WR NUMBER : 6205-01 PROJECT # : DS3519
LOCATION : WEARE NH 001

TEST PARAMETER	TESTING FREQUENCY	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM METHOD
Minimum Thickness (mil)	EVERY ROLL	54.0 min	56.0	D 751 NSF Mod.
Carbon Black (%)	5TH ROLL	2.0 to 3.0	2.7	D 1603
Carbon Black Dispersion	5TH ROLL	A-1/A-2/B-1	A-1	D 3015
Density (g/cc)	5TH ROLL	0.940 min	0.944	D 1505 (Meth.A)
Tensile Properties:				
Yield Strength (ppi)	EVERY ROLL	130	162	
Break Strength (ppi)	EVERY ROLL	75	182	D 638 Type IV
Yield Elongation (%)	EVERY ROLL	13	17	NSF 54 modified
Break Elongation (%)	EVERY ROLL	120	417	
Puncture Resistance (lb)	EVERY ROLL	80	98	FTMS 101, Meth. 2065
Tear Resistance (lb)	EVERY ROLL	45	53	D 1004
Dimensional Stability (%)	EVERY ROLL	-2.00 to 2.00	-0.25	D 1204 (1 hr, 100C)
ESCR (hrs)	1/RAILCAR	1500 min	Pending	D 1693 NSF MOD.

APPROVED
LW
#22
9/13/96
QA

GSE™

Quality Control Certificate

RAILCAR : ACFX96964
MATERIAL : HDT 060 MIL
BATCH # : 052996
ROLL # : 04028144

MANF. DATE : 05/29/1996
PROJECT NAME : ENV NETWORK/LRS ENV
MR NUMBER : 6205-01 PROJECT # : DS3519
LOCATION : WEARE NH 001

TEST PARAMETER	TESTING FREQUENCY	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM METHOD
Minimum Thickness (mil)	EVERY ROLL	56.0 min	60.0	D 751 NSF Mod.
Carbon Black (%)	5TH ROLL	2.0 to 3.0	2.6	D 1603
Carbon Black Dispersion	5TH ROLL	A-1/A-2/B-1	A-1	D 3015
Density (g/cc)	5TH ROLL	0.940 min	0.944	D 1505 (Meth.A)
Tensile Properties:				
Yield Strength (ppi)	EVERY ROLL	130	176	
Break Strength (ppi)	EVERY ROLL	75	196	D 638 Type IV
Yield Elongation (%)	EVERY ROLL	13	15	NSF 54 modified
Break Elongation (%)	EVERY ROLL	120	398	
Puncture Resistance (lb)	EVERY ROLL	80	107	FTMS 101, Meth. 2065
Tear Resistance (lb)	EVERY ROLL	45	64	D 1004
Dimensional Stability (%)	EVERY ROLL	-2.00 to 2.00	-0.05	D 1204 (1 hr, 100C)
ESCR (hrs)	1/RAILCAR	1500 min	Pending	D 1693 NSF MOD.

APPROVED
#22
9/3/96
QA

GSE™

Quality Control Certificate

RAILCAR : PSPX2510
MATERIAL : NOT 060 MIL
BATCH # : 060296
ROLL # : 04028213

MANF. DATE : 06/02/1996
PROJECT NAME : ENV NETWORK/LRS ENV
MR NUMBER : 6205-01 PROJECT # : DS3519
LOCATION : WEARE NH 001

TEST PARAMETER	TESTING FREQUENCY	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM METHOD
Minimum Thickness (mil)	EVERY ROLL	54.0 min	54.0	D 751 NSF Mod.
Carbon Black (%)	5TH ROLL	2.0 to 3.0	2.5	D 1603
Carbon Black Dispersion	5TH ROLL	A-1/A-2/B-1	A-1	D 3015
Density (g/cc)	5TH ROLL	0.940 min	0.944	D 1505 (Meth.A)
Tensile Properties:				
Yield Strength (ppi)	EVERY ROLL	130	166	
Break Strength (ppi)	EVERY ROLL	75	180	D 638 Type IV
Yield Elongation (%)	EVERY ROLL	13	17	NSF 54 modified
Break Elongation (%)	EVERY ROLL	120	376	
Puncture Resistance (lb)	EVERY ROLL	80	108	FTMS 101, Meth. 2065
Tear Resistance (lb)	EVERY ROLL	45	52	D 1004
Dimensional Stability (%)	EVERY ROLL	-2.00 to 2.00	-0.28	D 1204 (1 hr, 100C)
ESCR (hrs)	1/RAILCAR	1500 min	Pending	D 1693 NSF MOD.

APPROVED
#22
9/3/96
QA

GSE™

Quality Control Certificate

RAILCAR : PSPX2510
MATERIAL : HDT 060 MIL
BATCH # : 060296
ROLL # : 04028219

MANF. DATE : 06/02/1996
PROJECT NAME : ENV NETWORK/LRS ENV
MR NUMBER : 6205-01 PROJECT # : DS3519
LOCATION : WEARE NH 001

TEST PARAMETER	TESTING FREQUENCY	TYPICAL SPECIFICATIONS	TEST RESULTS	ASTM METHOD
Minimum Thickness (mil)	EVERY ROLL	54.0 min	55.0	D 751 NSF Mod.
Carbon Black (%)	5TH ROLL	2.0 to 3.0	2.5	D 1603
Carbon Black Dispersion	5TH ROLL	A-1/A-2/B-1	A-1	D 3015
Density (g/cc)	5TH ROLL	0.940 min	0.944	D 1505 (Meth.A)
Tensile Properties:				
Yield Strength (ppi)	EVERY ROLL	130	167	
Break Strength (ppi)	EVERY ROLL	75	162	D 638 Type IV
Yield Elongation (%)	EVERY ROLL	13	16	NSF 54 modified
Break Elongation (%)	EVERY ROLL	120	326	
Puncture Resistance (lb)	EVERY ROLL	80	107	FTMS 101, Meth. 2065
Tear Resistance (lb)	EVERY ROLL	45	56	D 1004
Dimensional Stability (%)	EVERY ROLL	-2.00 to 2.00	-0.22	D 1204 (1 hr, 100C)
ESCR (hrs)	1/RAILCAR	1500 min	Pending	D 1693 NSF MOD.

APPROVED
MW
#22
9/3/96
QA

GSE®

05/30/1997

MR number	Sample ID	product code	High thickness mil	Low thickness mil	Average mil Thickess mil
6205-01	03040138	HDT060N000	68.0	59.0	64.0
6205-01	04026558	HDT060N000	64.0	56.0	60.0
6205-01	04026576	HDT060N000	64.0	57.0	61.0
6205-01	04026586	HDT060N000	65.0	56.0	60.0
6205-01	04026601	HDT060N000	64.0	56.0	60.0
6205-01	04028146	HDT060N000	69.0	60.0	65.0
6205-01	04028213	HDT060N000	67.0	54.0	60.0
6205-01	04028215	HDT060N000	65.0	55.0	61.0
Count			8	8	8

End &CHR(27)@&10O

PHILLIPS CHEMICAL COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY
BOX 792 • PHONE: 713 475-3625
PASADENA, TEXAS 77501-0792

PHILLIPS PLASTICS RESINS
Houston Chemical Complex

June 14, 1996

JHV# 11868-96

FAX: 713-230-8640

GSE Lining Technology, Inc.
19103 Gundle Road
Houston, TX 77073

ATTN: Rick Schaefer

This letter will certify that the Marlex* resin shown below, as supplied by Phillips Chemical Company, conforms to our manufacturing specification.

Type:	HHM TR-400GS
Lot Number:	7160817
P.O. Number:	VERBAL
Date Shipped:	06/13/96
Package:	PSPX 2105
Quantity:	173150 LBS.
Melt Index, ASTM D1238:	.090 G/10 MIN
HLMI Flow Rate, ASTM D1238:	11.8 G/10 MIN
Density, ASTM D1505:	.938 G/CC
HLMI/MI Ratio:	131. GM/10 MIN
Production Date:	06/10/96
ESCR, F/50, Cond. B:	1500 HOURS **

J. H. Vaden
Quality Assurance Manager

For COA questions call Sharon Robinette, 713-475-3625

* Reg. U.S. Pat. Off.
** Nominal Value (not tested on each lot)

cc: QA-File-RC

PHILLIPS CHEMICAL COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY
BOX 792 • PHONE: 713 475-3666
PASADENA, TEXAS 77501-0792

PHILLIPS PLASTICS RESINS
Houston Chemical Complex

February 12, 1996

JHV# 2780-96

FAX: 713-443-4627

GSE Technology, Inc.
1340 East Richey Road
Houston, TX 77073

ATTN: Rick Schaefer

This letter will certify that the Marlex* resin shown below, as supplied by Phillips Chemical Company, conforms to our manufacturing specification.

Type:	HHM TR-400G
Lot Number:	7160148
P.O. Number:	VERBAL
Date Shipped:	02/09/96
Package:	ACFX 96797
Quantity:	177400 LBS.
Melt Index, ASTM D1238:	.080 G/10 MIN
HLMI Flow Rate, ASTM D1238:	10.7 G/10 MIN
Density, ASTM 1505:	.937 G/CC
ESCR, F/50, Cond. B:	1500 HOURS **
HLMI/MI Ratio:	134. GM/10 MIN
Production Date:	01/31/96

J. H. Vaden
Quality Assurance Manager

JHV:PSN:sr

* Reg. U.S. Pat. Off.
** Nominal Value (not tested on each lot)

cc: QA-File-RC

PHILLIPS CHEMICAL COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY
BOX 792 • PHONE: 713 475-3488
PASADENA, TEXAS 77501-0792

PHILLIPS PLASTICS RESINS
Houston Chemical Complex

February 15, 1996

JHV# 3102-96

FAX: 713-443-4627

GSE Technology, Inc.
1340 East Richey Road
Houston, TX 77073

ATTN: Rick Schaefer

This letter will certify that the Marlex* resin shown below, as supplied by Phillips Chemical Company, conforms to our manufacturing specification.

Type:	HHM TR-400GS
Lot Number:	7160155
P.O. Number:	VERBAL
Date Shipped:	02/14/96
Package:	PSPX 2082
Quantity:	175600 LBS.
HLMI Flow Rate, ASTM D1238:	12.0 G/10 MIN
Density, ASTM 1505:	.937 G/CC

J. H. Vaden
Quality Assurance Manager

JHV:PSN:sr

* Reg. U.S. Pat. Off.

cc: QA-File-RC

PHILLIPS CHEMICAL COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY
BOX 792 • PHONE: 713 475-3668
PASADENA, TEXAS 77501-0792

PHILLIPS PLASTICS RESINS
Houston Chemical Complex

May 17, 1996

JHV# 9806-96

FAX: 713-230-8640

GSE Lining Technology, Inc.
19103 Gundle Road
Houston, TX 77073

ATTN: Rick Schaefer

This letter will certify that the Marlex* resin shown below, as supplied by Phillips Chemical Company, conforms to our manufacturing specification.

Type:	HHM TR-400GS
Lot Number:	7160625
P.O. Number:	VERBAL
Date Shipped:	05/16/96
Package:	ACFX 96964
Quantity:	177250 LBS.
Melt Index, ASTM D1238:	.080 G/10 MIN
HLMI Flow Rate, ASTM D1238:	10.6 G/10 MIN
Density, ASTM 1505:	.937 G/CC
HLMI/MI Ratio:	133. GM/10 MIN
Production Date:	05/03/96

J. H. Vaden
Quality Assurance Manager

For COA questions call Sharon Robinette, 713-475-3625

* Reg. U.S. Pat. Off.

cc: QA-File-RC

PHILLIPS CHEMICAL COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY
BOX 792 • PHONE: 713 475-3666
PASADENA, TEXAS 77501-0792

PHILLIPS PLASTICS RESINS
Houston Chemical Complex

May 23, 1996

JHV# 10174-96

FAX: 713-230-8640

GSE Lining Technology, Inc.
19103 Gundle Road
Houston, TX 77073

ATTN: Rick Schaefer

This letter will certify that the Marlex* resin shown below, as supplied by Phillips Chemical Company, conforms to our manufacturing specification.

Type:	HHM TR-400GS
Lot Number:	7160639
P.O. Number:	STOCK
Date Shipped:	05/22/96
Package:	PSPX 2510
Quantity:	177600 LBS.
Melt Index, ASTM D1238:	.090 G/10 MIN
HLMI Flow Rate,ASTM D1238:	12.0 G/10 MIN
Density, ASTM 1505:	.937 G/CC
HLMI/MI Ratio:	133. GM/10 MIN
Production Date:	05/06/96

J. H. Vaden
Quality Assurance Manager

For COA questions call Sharon Robinette, 713-475-3625

* Reg. U.S. Pat. Off.

cc: QA-File-RC

WELDING ROD

QUALITY CONTROL CERTIFICATES

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA

800-527-3322 972-647-4374 FAX 972-988-8331

January 10, 1997

Chenango Contracting, Inc.
29 Arbutus Rd.
Johnson City, NY 13790-4130

Poly-Flex, Inc. hereby certifies that the welding rod shipped to the above referenced address was extruded from Quantum resin, lot number C6CP10. The welding rod resin certification is attached.

Sincerely,

Morris Jett

Morris Jett
General Manager

Quantum Chemical Corporation

Quantum

USI Division

P.O. Box 1038
Latexo, TX 75849
409-544-4043

MAR 04 1996

MARCH 01 1996

POLY AMERICA
2000 W. MARSHAL
GRAND PRAIRIE TX 75051
ATTENTION: JIM NOBERT

ANALYTICAL REPORT

ORDER NUMBER: SC07591
SHIPPED DATE: 02/15/96
CUSTOMER P.O. NUMBER: 6282 6013
CUSTOMER NUMBER: 424630

SHIPPED TO: POLY AMERICA
2000 W. MARSHAL
GRAND PRAIRIE TX
75051

PRODUCT: TR92956 SPECTRATECH TR 92956
LOT NUMBER: C6CP10 RAILCAR: ACFX97196 WEIGHT SHIPPED: 183100 LBS.

TEST DESCRIPTION	TEST RESULT	UNIT OF MEASURE	STM
CARBON	2.31	%	027
FEEDSTOCK DENSITY	0.9358		
FEEDSTOCK MI	0.20	G/10 MIN	00

SINCERELY,

LYNN LENDERMAN
LABORATORY SUPERVISOR

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE SIGNATORY.

GSE Lining Technology, Inc.

Report Date
03-Sep-96

Welding Rod Test Results

Test Date: 30-Aug-96
Rail Car No. PSPX2389
Resin Type: TR-400GS
Lot No. 7160956

Property	Test Method	Result
Average Thickness, in.	measurement by caliper	0.192
Melt Flow Index, g/10 min.	ASTM D 1238, (190/2.16)	0.12
Density, g/cc	ASTM D 1505	0.946
Carbon Black Content, %	ASTM D 1603	2.6

APPROVED
#23
9/3/96
QA

PHILLIPS CHEMICAL COMPANY
A DIVISION OF PHILLIPS PETROLEUM COMPANY
BOX 792 • PHONE: 713 475-3668
PASADENA, TEXAS 77501-0792

PHILLIPS PLASTICS RESINS
Houston Chemical Complex

July 16, 1996

JHV# 14281-96

FAX: 713-230-8640

GSE Lining Technology, Inc.
19103 Gundle Road
Houston, TX 77073

Rick Schaefer

This letter will certify that the Marlex* resin shown below, as supplied by Phillips Chemical Company, conforms to our manufacturing specification.

Type:	HHM TR-400GS
Lot Number:	7160956
P.O. Number:	VERSAL
Date Shipped:	07/15/96
Package:	PSPX 2389
Quantity:	176800 LBS.
Melt Index, ASTM D1238:	.090 G/10 MIN
HLMI Flow Rate, ASTM D1238:	12.9 G/10 MIN
Density, ASTM D1505:	.938 G/CC
HLMI/MI Ratio:	143. GM/10 MIN
Production Date:	07/08/96
ESCR, F/50, Cond. B:	1500 HOURS **
Brittleness Temperature:	<-70 C **

J. H. Vaden
Quality Assurance Manager

For COA questions call Sharon Robinette, 713-475-3625

* Reg. U.S. Pat. Off.
** Nominal Value (not tested on each lot)

cc: QA-File-RC

APPENDIX J.2.3

GEOMEMBRANE CONFORMANCE TEST

AUGUST 1996

933-6142

SUMMARY OF TEXTURED GEOMEMBRANE CONFORMANCE TEST RESULTS

INDUSTR-PLEX REMEDIAL TRUST
ENGINEERING SERVICES
WOBURN, MASSACHUSETTS

ROLL DESIGNATION	Reference Value	546217	A0402-8146	-	-	-	-	-	-	-	-
THICKNESS (mils) ASTM D 751	60 ± 10%	62.4	64.5	-	-	-	-	-	-	-	-
PUNCTURE RESISTANCE (lbs) FTMS 101C	-	112.7	113.3	-	-	-	-	-	-	-	-
DENSITY (g/cc) ASTM D 1505	>= 0.94	0.949	0.946	-	-	-	-	-	-	-	-
CARBON BLACK CONTENT (%) ASTM D 1603	2.0-3.0	2.22	2.65	-	-	-	-	-	-	-	-
CARBON BLACK DISPERSION (1) ASTM D 3015	A1,A2,B1	A1	A1	-	-	-	-	-	-	-	-
DIMENSIONAL TABILITY (%)	± 2	-0.25	0.00	-	-	-	-	-	-	-	-
MD/TD (2) ASTM D 1204	± 2	-0.05	0.00	-	-	-	-	-	-	-	-
STRENGTH AT YIELD (ppi)	>= 126	172.5	173.8	-	-	-	-	-	-	-	-
MD/TD (2) ASTM D 638	>= 126	178.4	174.8	-	-	-	-	-	-	-	-
STRENGTH AT BREAK (ppi)	>= 35	289.2	228.9	-	-	-	-	-	-	-	-
MD/TD (2) ASTM D 638	>= 35	269.2	186.2	-	-	-	-	-	-	-	-
ELONGATION AT YIELD (%)	>= 12	23.5	20.6	-	-	-	-	-	-	-	-
MD/TD (2) ASTM D 638	>= 12	19.5	18.5	-	-	-	-	-	-	-	-
ELONGATION AT BREAK (%)	>= 100	643	454	-	-	-	-	-	-	-	-
MD/TD (2) ASTM D 638	>= 100	651	391	-	-	-	-	-	-	-	-

(1) *Carbon black dispersion was tested according to ASTM D3015 and reported according to the ASTM D2663 dispersion classification chart.*
(2) MD/TD corresponds to Machine Direction / Transverse Direction.

6142GM1