

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUN - 7 2002

SOUTHWEST DISTRICT
TAMPA

*Jones
Edmunds &
Associates, Inc.* **JEA**
CONSULTING ENGINEERS AND SCIENTISTS

Gainesville • Jacksonville • Tampa • Destin • Titusville

**CITRUS COUNTY
CENTRAL LANDFILL
GEOMEMBRANE REMEDIATION

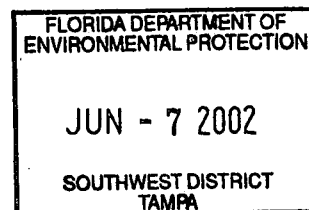
CONSTRUCTION COMPLETION
REPORT**

Prepared for:

CITRUS COUNTY BOARD OF COUNTY COMMISSIONERS
P.O. Box 340
Lecanto, Florida 34460

Prepared by:

JONES, EDMUNDS & ASSOCIATES, INC.
730 NE Waldo Road, Building A
Gainesville, Florida 32641



June 2002

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Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994
DEP Application No. _____
(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 21375-002-SC County: Citrus

Name of Project: Citrus County Central Landfill - Liner Remediation

Name of Owner: Citrus County Board of County Commissioners

Name of Engineer: Jones, Edmunds & Associates, Inc.

Type of Project: Construct liner repairs for the existing Class I Phase I and IA landfill. A new liner was installed over a portion of the existing single liner.

Cost: Estimate \$ 80,616.45 Actual \$ 85,616.45

Site Design: Quantity: 230 ton/day Site Acreage: 20 Acres

Deviations from Plans and Application Approved by DEP: See Citrus County Central Landfill Geomembrane Remediation Construction Completion Report.

Address and Telephone No. of Site: P.O. Box 340, Lecanto, Florida 34460, 352-746-5000

Name(s) of Site Supervisor: Susan Metcalfe, Division of Solid Waste Management

Date Site inspection is requested: June 2002

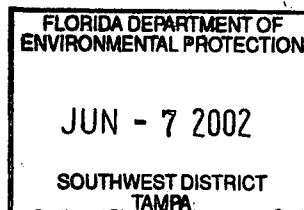
This is to certify that, with the exception of any deviation noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction

Permit No. 21375-002-SC :Dated: April 25, 2001

Date: 6-05-02

Signature of Professional Engineer
David Keough, Florida PE #33164

Page 1 of 1



Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-448-4300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
3804 Coconut Palm Dr.
Tampa, FL 33619
813-744-6100

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
941-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

2.0 INTRODUCTION

2.1 GENERAL

This document is intended to serve as the Construction Completion Report (CCR) for the Geomembrane Remediation to the Citrus County Central Landfill in Lecanto, Florida. Plans and specifications prepared by Jones, Edmunds & Associates, Inc. (JEA), were reviewed and approved by the Florida Department of Environmental Protection (FDEP) as part of the construction permit application submitted December 2000. FDEP issued a construction permit for this project on April 25, 2001. The notice to proceed for the geomembrane remediation was issued to the contractor, MWM South, Inc., on July 2, 2001.

The work performed included placement of a new geomembrane liner over the existing, damaged geomembrane liner. The new geomembrane liner was covered with a protective Dura-Skrim D16WB "rain coat." JEA was retained by Citrus County to provide construction phase services associated with the geomembrane liner remediation. A JEA resident project representative observed construction activities as outlined in the Construction Quality Assurance Plan (CQAP) submitted to FDEP December 2000. Elements of the CQA plan were based on the U.S. Environmental Protection Agency (EPA) Technical Guidance Document entitled, "Construction Quality Assurance for Hazardous Waste Land Disposal Facilities" (EPA/530-SW-86-031).

The purpose of this report is to document the results of the quality control program for this project as required by Specific Condition #7 of the construction permit, permit number 21375-002-SC.

2.2 CONSTRUCTION PROGRESS

Construction of the Citrus County Geomembrane Liner Remediation proceeded in the following order.

2.2.1 Surface Preparation

The technical specifications required that the contractor prepare the surface of the existing geomembrane so that the surfaces to be covered were smooth and free of all rocks, stones, sticks, roots, sharp objects, and debris of any kind, and kept free of debris until placement of the new geomembrane.

2.2.2 Geomembrane Installation

The 60-mil textured high-density polyethylene (HDPE) geomembrane liner was installed directly over the existing geomembrane liner. The new geomembrane liner was manufactured by Poly-Flex and installed by MWM South, Inc. MWM South performed quality control field testing during installation. Geotesting Express performed destructive seam testing for the contractor during installation of the geomembrane liner in accordance with the technical specifications. The

geomembrane was closely fitted and completely sealed around projections through the geomembrane liner.

2.2.3 Dura-Skrim (Raincoat) Installation

A Dura-Skrim (raincoat) was installed directly over the new geomembrane liner. The purpose of the raincoat was to protect the new geomembrane liner from damage that may be caused by exposure to ultraviolet light. Installation of the raincoat was observed.

2.2.4 Geomembrane and Raincoat Warranty

The new HDPE geomembrane liner was manufactured by Poly-Flex and installed by MWM South. Poly-Flex considers the new HDPE geomembrane as replacement material and thus is covered under the terms and conditions of the original warranty. The letter confirming the warranty coverage is provided in Appendix A.

MWM South, Inc has provided a limited warranty on the installation of the geomembrane and the raincoat. This warranty is also provided in Appendix A.

3.0 RESULTS OF THE QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

3.1 GENERAL

Monitoring and testing of the geomembrane liner system during construction was performed in accordance with the Quality Assurance/Quality Control (QA/QC) program as outlined in the CQAP. The following sections and referenced appendices present the results of the QA/QC program.

3.2 QA/QC PROGRAM MONITORING

3.2.1 Daily Progress Reports

As outlined in the CQAP, a JEA resident project representative was on site during construction to observe surface preparation and liner installation and monitor QA/QC program. The JEA resident project representative recorded observed activities, conversations, and other pertinent observations in a Daily Report (Appendix B). The installation contractor, MWM South, also provided a daily progress report during installation (Appendix C).

3.2.2 Inspection Data Sheets

The inspection data sheets contain documentation and observation records of field and laboratory test data in various formats. The inspection data sheets and associated testing documentation are provided in Appendix D.

As outlined in the technical specifications, the contractor was required to provide documentation from the geomembrane manufacturer (Poly-Flex, Inc.) showing that the supplied geomembrane material met the physical properties testing parameters. The material test results are provided in Appendix D.

The JEA resident project representative noted roll labels, recorded placement of the geomembrane rolls on a location map, and documented conformance to approved panel layout plans. The JEA resident project representative also recorded geomembrane seam measurements, inspections, seam testing, and seam repairs as necessary. This information is also provided in Appendix D.

Destructive seam samples were taken from each 500 linear feet of welded field seam, and the samples were sent to AGP Laboratories, Inc., for testing of seam width, peel strength, and shear strength. These test results are provided in Appendix D and indicate conformance with the project requirements.

3.2.3 Photographic Reporting

The JEA resident project representative took photographs and maintained a log of photographs during the construction period. Copies of the photographs and the photograph log are provided in Appendix E.

APPENDIX A

WARRANTY DOCUMENTATION

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA

888-765-9359

972-337-7113

FAX 972-337-7233

May 30, 2002

Ms. Susan J. Metcalfe
Director
Solid Waste Management
Citrus County Florida
P. O. Box 340
Lecantro, FL 34460

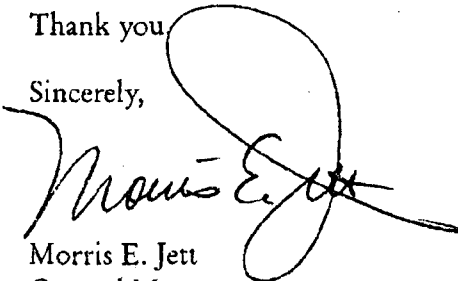
RE: CITRUS COUNTY CENTRAL LANDFILL, PHASE 1 LINER

Dear Ms. Metcalfe

In response to your recent telephone request for a warranty on the replacement material for the Phase 1 Liner repair. Poly-Flex, Inc. does not issue a warranty on replacement material. The replacement material is covered under the terms and conditions of the original warranty.

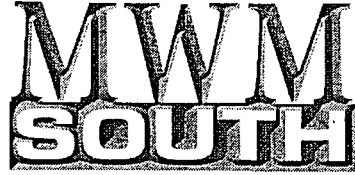
Thank you.

Sincerely,



Morris E. Jett
General Manager
Poly-Flex, Inc.

cc: Jeff Wilde - MWM South



COPY

LIMITED WARRANTY

Warranty No: 10563G
Effective Date: March 14, 2002

MWM SOUTH, INC. warrants each MWM SOUTH, INC. INSTALLATION to be free from defects in workmanship and to be able to withstand normal weathering from date of installation or sale, whichever occurs first, for a period of Two (2) years for normal use in approved applications. This Limited Warranty does not include damages or defects in MWM SOUTH, INC. INSTALLATIONS resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, tornadoes or force majeure. The term "normal use" as used herein does not include, among other things, the exposure of MWM SOUTH, INC. INSTALLATIONS to harmful chemicals; abuse of MWM SOUTH, INC. INSTALLATIONS by machinery, equipment or people; excessive pressure from any source; or stress from any source.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, MWM SOUTH, INC. will, at their option, repair or replace the MWM SOUTH, INC. INSTALLATION on a prorata basis at the then current price in such manner as to charge the Purchaser / User only for that portion of the warranted life which has elapsed since purchase of the MWM SOUTH, INC. INSTALLATION. MWM SOUTH, INC. will have right to inspect and determine the cause of any alleged defect in the MWM SOUTH, INC. INSTALLATION and to take appropriate steps to repair or replace the MWM SOUTH, INC. INSTALLATION if a defect exists and is within the term of this Limited Warranty.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the President of MWM SOUTH, INC. within thirty (30) days after the alleged defect is first noticed. Should the required notice not be given, the defect and all warranties shall be deemed to have been waived by the Purchaser, and Purchaser shall have no right of recovery against MWM SOUTH, INC. In the event repairs or replacements are to be effected, said repairs and replacement shall not become due until the area subject to replacement of MWM SOUTH, INC. INSTALLATION is in a clean, dry, unencumbered condition. This includes, but is not limited to, the area available for repair or replacement of MWM SOUTH, INC. INSTALLATION to be free from all water, dirt, sludge, residuals, and liquids of any kind.

MWM SOUTH, INC.'s liability under this warranty shall in no event exceed the replacement cost of the installation sold to the Purchaser for the particular installation in which it failed. Further, under no circumstances shall MWM SOUTH, INC. be liable for any special, direct, indirect, or consequential damages arising from loss of production or any other losses including losses due to personal injuries and product's liability owing to the failure of the material or installation and no allowance will be made for repairs, replacements, or alterations made by the Purchaser without the express written consent of MWM SOUTH, INC.

MWM SOUTH, INC. neither assumes nor authorizes any person other than an officer of MWM SOUTH, INC. to assume for it any other or additional liability in connection with the MWM SOUTH, INC. INSTALLATION made the basis of the Warranty. The Warranty herein is given in lieu of all other possible warranties, either express or implied, and by accepting delivery of the MWM SOUTH, INC. INSTALLATION, Purchaser waives all other possible warranties, except those specifically given.

MWM SOUTH, INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESS OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Purchaser acknowledges by acceptance that the Warranty given herein is accepted in reference to any and all other possible warranties.

The parties expressly agree that the sale hereunder is for commercial or industrial use only.

* * * * READ BEFORE SIGNING * * * *

*** * WARRANTY BECOMES EFFECTIVE UPON RECEIPT OF FINAL PAYMENT * ***

I hereby state I have read and understood the above and foregoing Warranty and agree to such by signing hereunder.

PURCHASER / USER: Citrus County BOCC

LOCATION OF INSTALLATION: Central Landfill Replacement Lining

DESCRIPTION OF INTENDED USE: Landfill Slope Lining

PURCHASER / USER
SIGNATURE _____

(Title)

MWM SOUTH, INC. Jeff Wild
Jeff Wild, P.E., Vice President

Sworn before me this _____ day of _____, 20 _____

Notary Public

APPENDIX B

**JEA RESIDENT PROJECT REPRESENTATIVE
DAILY REPORTS**

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03060-004-C1

CITRUS CO LF LINER REPAIR

Date: 6-18-01

CONTRACT DAY CO N/A

Weather: M/SUNNY

Temperature: _____

Contractor: MWM SOUTH

(1) Supt. (9) Skilled

Work Force: (1) PM

Equipment: 1 - TRAILER WORK 1 - ASH 4310
1 - TRAILER EQUIPMENT 1 - DRYER 455G JD
1 - TRUCK F-550 1 - CRZR

Work Activities: MOBILIZED ON SITE ATTENDED PRECONSTRUCTION
PREINSTALLATION MEETING. ALSO STARTED TO FILL SAND
BAGS AND RECON THE SITE IN GENERAL.

DISCUSSIONS INCLUDED FIELD FORMS & REPORTS. DOCUMENTATION
OF MANUFACTURERS FIELD REP. AND FIELD TESTING.

ALSO OBTAINED BULK LINER SAMPLES OF ALL 7 LINER
ROLLS

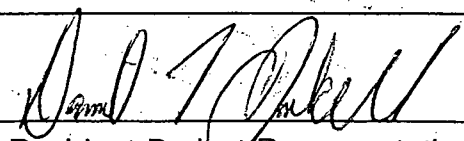
Tests Performed: _____

Materials Delivered: 7 - ROLLS OF 23 x 500 x 60 MIL TEX LINER

Visitors: DAVID KEOUGH, JUDY DeVITA

Defective Work to be Corrected: NONE

Signed: _____



Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

JONES, EDMUNDS & ASSOCIATES, INC.
730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT
FIELD DRAFT
(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/5/01 Thursday

Contract Day # 1

Weather: P.C. + Hot

Temperature: 72° +/- 94° +/-

Contractor: MWM South - Mt. Dora

Work Force: See Attached

Equipment: See Attached

Work Activities: ① MWM stuck dozer in retention pond - 1 hr. to extricate

② Concerns about roll # 1051-5 not meeting the Tensile Properties specification are being addressed @ JEA

③ MWM dug 85 LF of 2'x2' anchor trench @ top of berm on East slope - the excavator is too small to efficiently dig the hard clay encountered - MWM plans to order a larger excavator

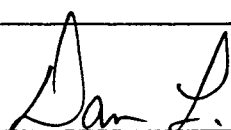
④ I spent the AM hrs. reviewing job conditions + specs. w/ Danny Intell (JEA) - inventory equipment + material - observe work in progress

Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: Jeff Wild (MWM South), Danny Intell (JEA)

Defective Work to be Corrected: ϕ

Signed: 

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

Thursday
MWM 7/5/01
Citrus Co. LF

Jones
Edmunds &
Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM stuck bulldozer in retention pond - 1 hr to extricate
② Danny Intell called TRI Testing & Judy DeVita concerning roll #
1051-5 not meeting the Tensile Properties spec. - Judy will
confer w/ David Keough & report back → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	8+	1	Hazy + Warm AM Hot + Humid PM TEMP: HIGH 94° HRS. LOST DUE TO: ☉ FOG LOW 72° RAIN COLD WET SURF.
FOREMAN	1	8+	0	
SKILLED	3	8+	0	
SEMI-SKILLED	1	8+	1	
COMMON	2	8+	0	
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
THI 285	BACKHOE	8	0		EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			(at 48/10 Posi)	F-END LOADER	1	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB 6500	GENERATOR	1	0		TRAFFIC ROLLER		
J/D 455G WT	DOZER	2	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D Gator	ATV	4	0
	DRAGLINE				MECH. TAMP			30' Van	Storage Trl.		
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						SEE BACK

CAUSE OF DELAY: *MWM stuck dozer in retention pond - 1 hr to extricate
*THI 285 excav. too small to dig ~~top~~ anchor trench in hard clay beam - MWM
to get bigger excavator

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
①	①
SEE BACK	SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
03860-008-01-0100	Citrus Co. Liner Repair	7/5/01	Thursday	1
VISITORS:	Jeff Wild - MWM South	OWNER OR OWNER REP.:	Susan Metcalfe	
	Danny Intell - JEA	ENGINEER'S OBSERVER:	Dan Z.	

DESCRIPTION OF WORK

③ MWM dug 85 LF of each 2'x2' anchor trench @ top of berm East slope - the excavator is too small to efficiently dig hard clay encountered - MWM to order larger excavator

④ Spent AM hours reviewing job conditions + specs w/ DTI - inventory equip + material - observe work in progress

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT
FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/6/01 Friday

Contract Day # 2

Weather: Cloudy + Rain

Temperature: 72°F - 92°F

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① MWM deployed Panels 1 thru 3 on East slope

② MWM took delivery of a larger excavator + dug 85 LF
of anchor trench @ top of berm on East slope

③ MWM Fusion wedge welded seams 1/2 + 2/3

④ MWM partially backfilled anchor trenches @ P1 thru P3 - E. slope

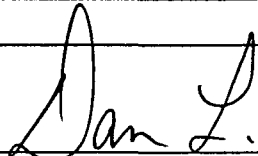
⑤ MWM rained out @ 11:30 AM

Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed: 

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

Citrus Co
Friday 7/6/01

Jones
Edmunds &
Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM deployed Panels 1-3 on E. slope
- ② MWM took delivery of a larger excavator + dug 85 LF of anchor trench @ top of berm E. slope
- ③ MWM fusion wedge welded seams 1/2 + 2/3 → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	5	5	Cloudy + Rain @ 11:30 AM
FOREMAN	1	5	5	
SKILLED	2	5	5	
SEMI-SKILLED				
COMMON	3	5	5	TEMP: HIGH 92° HRS. LOST DUE TO: 5 FOG LOW 72° RAIN COLD WET SURF.
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
JHE 555	BACKHOE	5	5		EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 4810 Peri-Truck	F-END LOADER	5	5		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB6500-2X	GENERATOR	2	5		TRAFFIC ROLLER		
J/D 4586 WT	DOZER	5	5		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D Gator	ATV	5	5
	DRAGLINE				MECH. TAMP			30' Van	Storage Trl	8	0
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						

CAUSE OF DELAY: * Rain @ 11:30 AM + 1:00 PM Rained Out

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
Φ	Φ
SEE BACK	SEE BACK

REMARKS: * MWM

SEE BACK

JEA PROJECT NO. 03860-008-01-0100	JEA PROJECT NAME Citrus Co. Liner Remed.	DATE: 7/6/01	DAY OF WEEK: Friday	CONTRACT DAY NO.: 2
VISITORS:	OWNER OR OWNER REP.: Susan Metcalfe			
	ENGINEER'S OBSERVER:			

DESCRIPTION OF WORK

- ④ MWM partially backfilled ~~ten~~ anchor trenches @ P1 thru A3
⑤ Rained out @ 11:30 AM

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/7/01 Saturday

Contract Day # 3

Weather: P.C. + Hot - Rain @ 3:30 PM

Temperature: 73°/- 94°/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

- Work Activities:
- ① Excavator broke down - can't dig anchor trench
 - ② MWM deployed Panels 4 thru 16 on East slope - Fusion wedge welded seams 3/4 thru 11/12 on East slope - mwm did not finish fusion welding because of rain
 - ③ MWM partially backfilled anchor trenches
 - ④ No nondestructive seam testing because of rain

Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed:

Dan L.

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

Citrus Co.
Sat 7/7/01

Jones
Edmunds &
Associates, Inc. **JEA**
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① Excavator broke down - can't dig anchor trench - 5 hr. delay
② MWM deployed Panels 4 thru 16^{5 slope} Fusion wedge welded seams 3/4
thru 11/12 E slope - did not complete fusion welding bec. of rain
③ MWM partially backfilled anchor trenches → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	8	2	P.C. + Hot Rain @ 3:30PM TEMP: HIGH 94° HRS. LOST DUE TO: 2 FOG LOW 73° (RAIN) COLD WET SURF.
FOREMAN	2	8	2	
SKILLED	5	8	2	
SEMI-SKILLED				
COMMON	3	8	2	
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
IHI 55J	BACKHOE	3.5	5		FIELD OFFICE				PUMP		
	CRANE-CRAW			Cat 4810 Posi-Track	FLATBED TRUCK				SPREADER		
	CRANE-TRUCK				F-END LOADER	8+	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB 6500-2x	GENERATOR	8+	0		TRAFFIC ROLLER		
J/D 455G WT	DOZER	8+	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D Gator	ATV	8+	0
	DRAGLINE				MECH. TAMP			30' Van	Storage Trl	8+	0
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						

CAUSE OF DELAY: * IHI 55J broke down - can't dig anchor trench
- 5 hr delay
* Rain @ 3:30PM

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
Ø	Ø
SEE BACK	SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO. 03860-008-01-000	JEA PROJECT NAME Citrus Co. Linc Remed.	DATE: 7/7/01	DAY OF WEEK: Saturday	CONTRACT DAY NO.: 3
VISITORS:	OWNER OR OWNER REP.: Susan Metcalfe	ENGINEER'S OBSERVER: Dan L.		

DESCRIPTION OF WORK

① No non destructive seam testing bec. of afternoon rain

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/8/01 Sunday

Contract Day # 4

Weather: P.C. + Hot

Temperature: 74° +/- 95° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities ① MWM fusion wedge welded seams 12/13 thru 14/15 on East slope to complete fusion welding seams on East slope

② MWM nondestructively tested all fusion welded seams on East slope - all seams held pressure for 5 minutes

③ MWM removed + repaired DS 3 thru DS 8 on East slope

④ No vacuum box testing on East slope

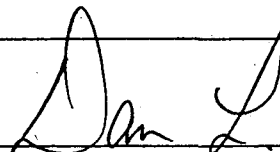
Tests Performed: see # ② above

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed:



Resident Project Representative

JONES, EDMUNDS & ASSOCIATES, INC.

Citrus Co.
Sunday 7/8/01

Jones
Edmunds &
Associates, Inc. **JEA**
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM Fusion wedge welded seams 12/13 thru 14/15 on E slope to complete fusion welding seams on E slope
② MWM non destructively tested all fusion welded seams on E slope - all held pressure for 5 min. → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	8+	0	Hazy AM Hot & P.C. TEMP: HIGH 95° HRS. LOST DUE TO: 2 FOG LOW 73° RAIN COLD WET SURF.
FOREMAN	1	8+	0	
SKILLED	4	8+	0	
SEMI-SKILLED				
COMMON	3	8+	0	
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
JH 55 J	BACKHOE	0	0		EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 9810 Pori-Truck	F-END LOADER	0	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB 6500-2x	GENERATOR	8+	0		TRAFFIC ROLLER		
J/D 9556 WT	DOZER	0	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D GATOR	ATV	4	0
	DRAGLINE				MECH. TAMP			30' Van	Storage Trl.		
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						

SEE BACK

CAUSE OF DELAY: Ⓟ

SEE BACK

SUBCONTRACTORS WORKING: Ⓟ

UTILITY COMPANIES WORKING: Ⓟ

SEE BACK

SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO. 03860-008-01-0100	JEA PROJECT NAME Citrus Co. Liner Remed.	DATE: 7/8/01	DAY OF WEEK: Sunday	CONTRACT DAY NO.: 4
VISITORS:		OWNER OR OWNER REP.: Susan Metcalfe		
		ENGINEER'S OBSERVER: Dan L.		

DESCRIPTION OF WORK

- ③ * I spoke w/ Danny Intell concerning interpretation of the specification outlining the number of destructive tests required - we determined a "seaming period" to be one day + thus we need 3 destructive coupons from each welding day, totaling 9 coupons
- ④ MWM removed + repaired DS 3 thru DS 8 on East slope
- ⑤ No vacuum box testing on East slope

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730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT
FIELD DRAFT
(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/9/01 Monday

Contract Day # 5

Weather: AM Rain + Hot
Temperature: 75° +/- 95° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① MWM removed + repaired DS 1 + DS 2 from East slope

② MWM sent sample coupons DS 1 thru DS 8 to TRI Testing via UPS Next Day Air

③ MWM extrusion welded PI to the existing textured HDPE liner on East slope

④ MWM extrusion welded patches on defects + holes from air testing Fusion welds

⑤ No vacuum box testing on East slope

Tests Performed: φ

Materials Delivered: φ

Visitors: φ

Defective Work to be Corrected: φ

Signed: Sam L.

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

MWM Citrus Co.
Monday 7/9/01

Jones
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CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review.)

Telephone: (904) 377-5821 • FAX (904) 377-3166

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DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM removed + repaired DS1 + DS2 from East slope
- ② MWM sent sample coupons DS1 thru DS8 to TRI for testing via UPS next day air
- ③ MWM ext. welded P1 to existing textured HDPE liner

SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	7	0	Cloudy + Rain AM
FOREMAN	1	1.5	0	
SKILLED	3	8.5	1	Cloudy + Hot PM
SEMI-SKILLED				
COMMON	3	5.4	1.0	TEMP: HIGH 95° HRS. LOST DUE TO: 1 FOG
TRAINEES				LOW 75° (RAIN) COLD WET SURF.

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PLE BURNER		
THE 555	BAGHOE	0	0		EARTHMOVER				POWER BROOM		
	BAGHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 4810 Peri-Track	F-END LOADER	2	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB6500	GENERATOR	8	1		TRAFFIC ROLLER		
J/D 455 GWT	DOZER	0	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D GATOR	ATV	3	0
	DRAGLINE				MECH. TAMP			Water 8.5	Generator	8	1
	DUMP TRUCK				MIXER			30' Van	Storage Trl.		
	DUMP TRUCK				MOTOR GRADER						

SEE BACK

CAUSE OF DELAY: Rain - 1hr - AM

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
Ø	Ø
SEE BACK	SEE BACK

REMARKS: * Stafford Corby on site after rain

SEE BACK

JEA PROJECT NO. 03860-008-01-0100	JEA PROJECT NAME Citrus Co. Liner Remed.	DATE: 7/9/01	DAY OF WEEK: Monday	CONTRACT DAY NO.: 5
VISITORS:	OWNER OR OWNER REP.: Susan Metcalfe			
	ENGINEER'S OBSERVER: Dan F.			

DESCRIPTION OF WORK

- ④ MWM ext. welded patches on defects & holes from
air testing fusion welds
- ⑤ No vacuum box testing on E. slope

JONES, EDMUNDS & ASSOCIATES, INC.

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Gainesville, Florida 32641
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DAILY OBSERVATION REPORT
FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/10/01 Tuesday

Contract Day # 6

Weather: Cloudy + Rain

Temperature: 81°F - 94°F

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① Deployed one panel of 60 mil textured HDPE liner on West slope

② The County is using a backhoe + inmates to repair the subgrade @ the bottom of the West slope

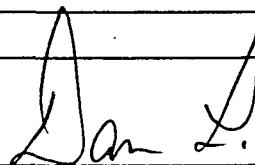
Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed:



Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

Tuesday Citrus Co.
7/10/01

Jones
Edmunds &
Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① Deployed one panel of 60 mil tex HDPE liner on W slope
- ② County using backhoe + inmates to repair subgrade @ bottom of W. slope

SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	3	7	Cloudy + light drizzle (8:45 AM)
FOREMAN	1	3	7	
SKILLED	4	3	7	
SEMI-SKILLED				Continued to rain
COMMON	3	3	7	TEMP: HIGH 94° HRS. LOST DUE TO: 8 FOG
TRAINEES				LOW 81° (RAIN) COLD WET SURF.

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
JHI 55 S	BACKHOE	0	0		EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 4810 Pari-Track	F-END LOADER	1	9		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB6500	GENERATOR	0	10		TRAFFIC ROLLER		
J/D 955G WT	DOZER	1	9		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D GATOR	ATV	1	9
	DRAGLINE				MECH. TAMP			Wacker 8.5	Generator	0	10
	DUMP TRUCK				MIXER			30' Van	Storage Tr.		
	DUMP TRUCK				MOTOR GRADER						

SEE BACK

CAUSE OF DELAY: * Rain

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
Q	Q
SEE BACK	SEE BACK

REMARKS:

SEE BACK

PROJECT NO. 03860-008-01-0100	JEA PROJECT NAME Citrus Co. Liner Remed.	DATE: 7/10/01	DAY OF WEEK: Tuesday	CONTRACT DAY NO.: 6
VISITORS:		OWNER OR OWNER REP.: Susan Metcalfe		
		ENGINEER'S OBSERVER: [Signature]		

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
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DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/11/01 Wednesday

Contract Day # 7

Weather: Rain

Temperature: 77°/- 94°/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

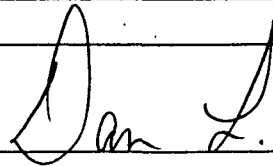
Work Activities: ① No Work - Rained Out

Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed: 

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

Citrus Co.
Wed. 7/11/01

Jones
Edmunds &
Associates, Inc. **JEA**
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

① No Work - Rained Out

SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	0	10	Rain Am
FOREMAN	1	0	10	
SKILLED	4	0	10	
SEMI-SKILLED				
COMMON	3	0	10	TEMP: HIGH 99° HRS. LOST DUE TO: 10 FOG LOW 77° (RAIN) COLD WET SURF.
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK				F-END LOADER				STEEL ROLLER		
	CURB MACHINE			Cat 4810 Posi-Track	F-END LOADER	0			SWEEPER BROOM		
	DISTRIBUTOR			Honda EB6500-2x	GENERATOR	0			TRAFFIC ROLLER		
J/D 4556 WT	DOZER	0			GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D GATOR	ATV	0	
	DRAGLINE				MECH. TAMP			Walker 2.5	Generator	0	
	DUMP TRUCK				MIXER			30' Van	Storage Trl.		
	DUMP TRUCK				MOTOR GRADER						

SEE BACK

CAUSE OF DELAY:

X RAIN

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
①	①
SEE BACK	SEE BACK

REMARKS: ①

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
03860-008-01-0100	Citrus Co. Liner Paved	7/11/01	Wednesday	7
VISITORS:	OWNER OR OWNER REP.:	Susan Metcalfe		
	ENGINEER'S OBSERVER:	Jim L.		

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/12/01 Thursday

Contract Day # 8

Weather: P.C. + Hot
Temperature: 78° +/- 94° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① Because the County has not finished grading the base of the West slope, MWM opted to begin deployment from the small panels (#17) back toward the longer panels (#1)

② D.S.#2 on the East slope did not meet the specs. when tested by the lab - MWM to cut new coupons + resubmitt

③ MWM repairing punctures + tears in the existing smooth liner @ the top of berm West slope before deploying liner

④ MWM deployed Panels 16 thru 8 today

⑤ MWM fusion split wedge welded seams 8/9 thru 15/16 today - everything deployed today was welded

⑥ Inmate labor, County employees + equipment prepared the toe of the West slope for liner deployment

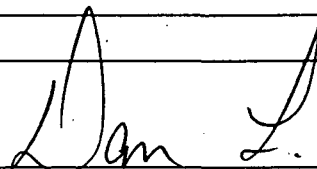
Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed:



Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

Citrus Co.
Thurs 7/12/01

Jones
Edmunds &
Associates, Inc. **JEA**
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① Because County has not finished grading the base of the West slope, MWM has opted to begin panel deployment from the small panels (#16) back toward the long panels (#1).
- ② DS#2 on E. slope did not meet spec. - MWM to cut new → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	10 +	0	P.C. + 4:01 AM " PM
FOREMAN	1	10 +	0	
SKILLED	4	10 +	0	
SEMI-SKILLED				
COMMON	3	8 +	0	TEMP: HIGH 94° HRS. LOST DUE TO: 0 FOG
TRAINEES				LOW 78° RAIN COLD WET SURF.

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK				F-ENO LOADER				STEEL ROLLER		
	CURB MACHINE			Cut 4910 Pari-Truck	F-ENO LOADER	8+	0		SWEeper BROOM		
	DISTRIBUTOR			1636500 Honda - 2x	GENERATOR	8+	0		TRAFFIC ROLLER		
J/D 4556 WT	DOZER	8+	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			Wacker 8.5	Generator	0	0
	DRAGLINE				MECH. TAMP			J/D GATOR	ATV	8+	10
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						

CAUSE OF DELAY: 0

SEE BACK

SUBCONTRACTORS WORKING:

UTILITY COMPANIES WORKING:

SEE BACK

SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
03860-008-01-0100	Citrus Co. Linear Remed.	7/12/01	Thursday	8
VISITORS:	OWNER OR OWNER REP.: Susan Metcalfe			
	ENGINEER'S OBSERVER: Dan L.			

coupons + resubmitt. to lab.

- ③ MWM repairing small punct + tears in existing smooth liner @ top of berm W. slope before deploying liner
- ④ MWM ~~inst~~ deployed Panels 16 thru 8 today
- ⑤ MWM fusion split wedge welded seams 8/9 thru 15/18 today - everything that was deployed today
- ⑥ Inmate labor, County employees + equip. prepared the toe of the W. slope for liner deployment.

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/13/01 Friday

Contract Day # 9

Weather: P.C. + Rain

Temperature: 76° +/- 93° +/-

Contractor: MWM South

Work Force: See Attached

Equipment: See Attached

Work Activities: ① MWM continues patching existing smooth liner @ top of berm on the West slope

② MWM backfilled the top of berm anchor trench on the East slope by hand (shovels)

③ Inmates repairing toe of West slope damaged by rain

④ MWM regraded the remaining anchor trench @ the top of the berm West slope + dug relief ditches to drain the standing water in the anchor trench

⑤ Danny Intell (JEA) + T rode the jobsite + discussed progress + problems

Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: Danny Intell, Judy DeVita, Ken Vogel, Bob White, Steve Laux - JEA Gainesville

Defective Work to be Corrected: ϕ

Signed: Dan L.

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

Citrus Co.
~~Thurs~~ Fri. 7/13/01

Jones
Edmunds &
Associates, Inc. **JEA**
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM continues patching existing smooth liner @ top of berm W. slope
- ② MWM backfilled E. slope top of berm anchor trench by hand
- ③ Inmates repairing toe of W. slope damaged by rain
- ④ MWM regraded the remaining anchor trench @ top of berm W. slope SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.				Cloudy AM Rain out @ 11:00 AM TEMP: HIGH 93° HRS. LOST DUE TO: 6 FOG LOW 76° RAIN COLD WET SURF.
FOREMAN				
SKILLED				
SEMI-SKILLED				
COMMON				
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 9810 Peri-Truck	F-END LOADER	0			STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB 6500-2x	GENERATOR	2			TRAFFIC ROLLER		
J/D 4556 W/T	DOZER	0			GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D GATOR	ATV		
	DRAGLINE				MECH. TAMP			Wacker 8.5	Generator		
	DUMP TRUCK				MIXER			30' Storage	Van Trl.		
	DUMP TRUCK				MOTOR GRADER						SEE BACK

CAUSE OF DELAY:

RAIN

SEE BACK!

SUBCONTRACTORS WORKING:

UTILITY COMPANIES WORKING:

SEE BACK

SEE BACK!

REMARKS:

SEE BACK!

JEA PROJECT NO.

JEA PROJECT NAME

DATE:

DAY OF WEEK:

CONTRACT DAY NO.:

Citrus Co. Liner Remed 03860-008-01-0100

7/13/01

Friday

9

VISITORS:

DANRY Intell, Judy DeVita, Ken Vogel,

OWNER OR

OWNER REP.: Susan Metcalfe

Rab White - JEA

ENGINEER'S
OBSERVER: Dan L.

• cut some relief ditches to drain the standing water
in the anchor trench

⑤ DTI & I rode the job & discussed progress & problems

Citrus Co.
Sat. 7/14/01

Jones
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Associates, Inc. **JEA**
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FIELD DRAFT
(Subject to Engineer's Review)

Phone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

① NO work today - MWM opted to not risk the weather

SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.				Rain AM PC after 10:00 AM TEMP: HIGH 94° HRS. LOST DUE TO: 8 FOG LOW 74° (RAIN) COLD WET SURF.
FOREMAN				
SKILLED				
SEMI-SKILLED				
COMMON				
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACCHOE				EARTHMOVER				POWER BROOM		
	BACCHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK				F-END LOADER				STEEL ROLLER		
	CURB MACHINE			Cat 9810Pon - Truck	F-END LOADER	0			SWEEPER BROOM		
	DISTRIBUTOR			EB 6500 Honda - 2x	GENERATOR	0			TRAFFIC ROLLER		
3/P 4556 WT	DOZER	0			GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				WIB. ROLLER		
	DOZER				LABOR VAN			Water 8.5	Generator	0	
	DRAGLINE				MECH. TAMP			J/D GATOR	ATV	0	
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						

SEE BACK

CAUSE OF DELAY:

X Raining in AM + Stafford Cosby (MWM Supt.) called work off

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
⊕	⊕
SEE BACK	SEE BACK

REMARKS:

⊕

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
60-008-01-0100	Citrus Co. LF Liner Repair	7/14/01	Saturday	10
VISITORS:		OWNER OR OWNER REP.:	ENGINEER'S OBSERVER:	
		Susan Metcalfe	Dan L.	

JONES, EDMUNDS & ASSOCIATES, INC.
730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT
FIELD DRAFT
(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/16/01 Monday

Contract Day # 12

Weather: P.C. + H₂O
Temperature: 74° +/- 95° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① County repaired subgrade @ bottom of P 8 thru P 10 on West slope before liner deployment

② MWM deployed Panels 7 thru 10

③ MWM split wedge welded seams P 7/8 thru P 1/0

④ I measured all seam lengths on West slope to be noted on panel drawing

⑤ I determined destructive test locations for the West slope to be removed after air testing (non-destructive)

⑥ I marked new test locations @ DS-2 on East slope because of unsatisfactory test results

Tests Performed: φ

Materials Delivered: φ

Visitors: φ

Defective Work to be Corrected: φ

Signed: Sam L.

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

7/16/01 Monday
Citrus Co.
MWM

Jones
Edmunds &
Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

Telephone: (904) 377-5821 • FAX (904) 377-3166

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DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ② MWM deployed Panels 7 thru 0
① County repaired subgrade & toe of P 8 thru P 0 before deployment
③ MWM split wedge welded 2 seams P 7/8 thru P 0/1 → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	10+	0	Clear Am PC Pm + Hot TEMP: HIGH 90 HRS. LOST DUE TO: 0 FOG LOW 70 RAIN COLD WET SURF.
FOREMAN	1	10+	0	
SKILLED	4	10+	0	
SEMI-SKILLED	2	10+	0	
COMMON	4	10+	0	
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HWI	HDI	TYPE	EQUIPMENT	HWI	HDI	TYPE	EQUIPMENT	HWI	HDI
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 9810 Pci-Truck	F-END LOADER	5	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEeper BROOM		
	DISTRIBUTOR			Hand-ES6500-2X	GENERATOR	8+	0		TRAFFIC ROLLER		
J/D 4556 W/R	DOZER	5	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D GATOR	ATV	8+	0
	DRAWLINE				MECH. TAMP			Wacker P.5	Generator		
	DUMP TRUCK				MIXER			30' Van	Storage Trl.		
	DUMP TRUCK				MOTOR GRADER			Wacker BP03345A	Rev. Plate		SEE BACK

CAUSE OF DELAY:

* Broken tip on air tester - not able to pressure test split wedge welds

SEE BACK

SUBCONTRACTORS WORKING:

UTILITY COMPANIES WORKING:

SEE BACK

SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO. 03860-008-01-0100	JEA PROJECT NAME Citrus Co. Line Rencd.	DATE: 7/16/01	DAY OF WEEK: Monday	CONTRACT DAY NO.: 12
VISITORS:	OWNER OR OWNER REP.: Susan Metcalfe	ENGINEER'S OBSERVER: Dan L		

DESCRIPTION OF WORK

- ④ measured seam lengths on W. slope
- ⑤ determined destructive test locations for W. slope
- ⑥ marked new test locations @ DS-2 on E. slope

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860 - 008 - 01 - 0100

Citrus Co. LF Liner Repair

Date: 7/17/01 Tuesday

Contract Day # 13

Weather: P.C. + Warm

Temperature: 72 +/- 92 +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① MWM backfilling East slope anchor trench by hand (shovels) because Cat Posi-Track broke down

② MWM compacting East slope anchor trench w/ rev. plate

③ MWM stopped work because of Posi-Track break down + the air testing needles are leaking - MWM ordered new needles

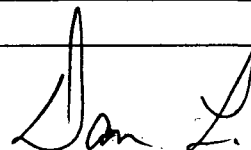
Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed:



Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

MWM
Tuesday 7/17/01

Jones
Edmunds &
Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM backfilling E. slope anchor trench by hand because Pari-Track broke down
- ② mwm compacting E. slope anchor trench w/ rev. plate
- ③ MWM stopped work because of Pari-Track breakdown & the SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	4	6	PC + Warm
FOREMAN	1	4	6	
SKILLED	2	4	6	
SEMI-SKILLED	3	4	6	
COMMON				TEMP: HIGH 90 HRS. LOST DUE TO: 0 FOG LOW 70 RAIN COLD WET SURF.
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAYER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE			30' Storage	FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 4810 Pari-Track	F-END LOADER	1	9		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda ER 6500	GENERATOR	0	0		TRAFFIC ROLLER		
7/17 4556	DOZER	0	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			7/17 4556	ATV	4	0
	DRAGLINE				MECH. TAMP			Wacker 8.5	Generator	0	0
	DUMP TRUCK				MIXER			Wacker BPU334	Rev. Plate	4	0
	DUMP TRUCK				MOTOR GRADER						
SEE BACK											

CAUSE OF DELAY: ① Cat Pari-Track broke down - can't finish backfilling
② No needles for air testing

SEE BACK

SUBCONTRACTORS WORKING:

UTILITY COMPANIES WORKING:

SEE BACK

SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
03860-008-01-0100	Citrus Co. Linger Remed.	7/17/01	Tuesday	13
VISITORS:	OWNER OR OWNER REP.:	Sara Metcalfe		
	ENGINEER'S OBSERVER:	Dan L		

DESCRIPTION OF WORK

air testing needles are leaking - MWM ordered
new needles

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/18/01 Wednesday

Contract Day # 14

Weather: P.C. & Hot

Temperature: 72° +/- 92° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① MWM waiting on UPS to deliver A.T.

② Cat Posi-Track still broke down - no backfilling anchor trenches

③ MWM installed last remaining panel on West slope & welded it to the previously installed panels

④ MWM extension welded P 15/16 on West slope because the air chamber from wedge welding did not allow a conclusive air test

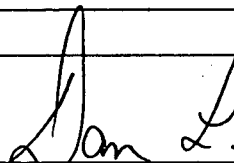
Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed:



Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

MWM 7/18/01

Tuesday
WednesdayJones
Edmunds &
Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTSFIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM waiting on UPS to deliver A.T. needles
 ② Cat Posi-Track still broke down - no backfilling
 ③ MWM installed last remaining panel on West slope + welded it to previously installed panels → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.				P.C. + Hot
FOREMAN	1	7	3	
SKILLED	4	7	3	Rain @ 2:30 PM
SEMI-SKILLED				
COMMON	1	7	3	TEMP: HIGH 72° HRS. LOST DUE TO: 3 FOG
TRAINEES				LOW 72° (RAIN) COLD WET SURF.

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAYER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE			30' Storage	FIELD OFFICE	8+	0		PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 480 Posi-Track	F-END LOADER	0	10		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda CB6500	GENERATOR				TRAFFIC ROLLER		
J/D 4556	DOZER	0	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D GATOR	ATV		
	DRAGLINE				MECH. TAMP			Wacker 8.5	Generator		
	DUMP TRUCK				MIXER			Wacker BPU3345	Rev. Plate		
	DUMP TRUCK				MOTOR GRADER						SEE BACK

CAUSE OF DELAY: * Rain @ 2:30 PM
 * Posi-Track still broke down
 * still waiting on A.T. needles

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
⊕	⊕
SEE BACK	SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
03860-008-01-0100	Citrus Co. Liner Repair	7/18/01	Wednesday	14
VISITORS:	OWNER OR OWNER REP.:	ENGINEER'S OBSERVER:		
	Susan Metcalfe	Don L.		

- ④ MWM extrusion welded P15/16 on West slope because the air chamber from wedge welding did not allow a ~~concl~~ conclusive A.T.

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Liner Repair

Date: 7/21/01 Saturday

Contract Day # 17

Weather: Cloudy AM
Temperature: 74° +/- 94° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① MWM arrived @ 9:30 AM - watching weather
② MWM clean up debris from West slope stormwater ditch
③ Air test seams on West slope
④ Heat weld patches @ air test locations +
extrusion weld some

Tests Performed:

Ø

Materials Delivered:

Ø

Visitors:

Ø

Defective Work to be Corrected:

Ø

Signed:

Sam L.

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

730 North Waldo Road • Gainesville, Florida 32641

DESCRIPTION OF WORK

- | PERSONNEL | NO. | HRS. WORK'D | HRS. DELAY'D | DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB: |
|--------------|-----|-------------|--------------|---|
| SUPT. | 1 | 8+ | 0 | Cloudy |
| FOREMAN | | | | |
| SKILLED | 3 | 8+ | 0 | |
| SEMI-SKILLED | | | | |
| COMMON | 1 | 8+ | 0 | TEMP: HIGH <u>94/-</u> HRS. LOST DUE TO: 0 FOG
LOW <u>74/-</u> RAIN COLD WET SURF. |
| TRAINEES | | | | |

CAUSE OF DELAY:

SEE BACK

SUBCONTRACTORS WORKING:

UTILITY COMPANIES WORKING:

SEE BACK

SEE BACK

REMARKS:

SEE BACK

CONTRACT DAY NO.:
17

VISITORS:

OWNER OR
OWNER REP.:
ENGINEER'S
OBSERVER:

Susan Metcalfe
Dan L.

extrusion welding.

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. LF Linc Repair

Date: 7/23/01 Monday

Contract Day # 19

Weather: Cloudy + Rainy
Temperature: 74° +/- 88° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

- Work Activities:
- ① MWM cut out all destructive test coupons on West slope + heat welded patches over cuts
 - ② MWM heat welded patches over air test locations on West slope
 - ③ MWM extrusion welded patches between light drizzle-AM
 - ④ MWM completed some vacuum box testing on the West slope before being rained out

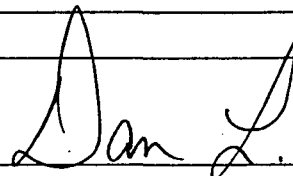
Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed:



Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

MWM

Jones
Edmunds &
Associates, Inc. **JEA**
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION**DESCRIPTION OF WORK**

- ① MWM cut out all destructive test coupons on West slope + heat welded patches over cuts - also heat
- ② MWM heat welded patches over air test locations on W. slope
- ③ MWM ext. welding patches between light drizzle AM → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	7.5	2.5	Cloudy + some light drizzle AM Windy PM - Rain @ 2:15 PM TEMP: HIGH 88° HRS. LOST DUE TO: 2.5 FOG LOW 74° <u>RAIN</u> COLD WET SURF.
FOREMAN	1	7.5	2.5	
SKILLED	5	7.5	2.5	
SEMI-SKILLED				
COMMON				
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HO			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE			30' Storage	FIELD OFFICE	8	0		PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 4810 Posi	F-END LOADER	6	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB 6500-2X	GENERATOR	7	3		TRAFFIC ROLLER		
J/D 455G	DOZER	0	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			J/D GATOR	ATV	7	3
	DRAGLINE				MECH. TAMP			Wacker 8.5	Generator	4	0
	DUMP TRUCK				MIXER			Wacker BPU3345	Rev. Plate	0	0
	DUMP TRUCK				MOTOR GRADER						

SEE BACK

CAUSE OF DELAY: * rained out @ 2:15 PM

SEE BACK

SUBCONTRACTORS WORKING:**UTILITY COMPANIES WORKING:**

SEE BACK

SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
03860-008-01-0100	Citrus Co. Liner Repair	7-23-01	Monday	19
VISITORS:	OWNER OR OWNER REP.:	ENGINEER'S OBSERVER:		
	Susan Metcalfe	Dan L.		

DESCRIPTION OF WORK

④ MWM completed some vacuum box testing on W. slope before rained out

JONES, EDMUNDS & ASSOCIATES, INC.
730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT
FIELD DRAFT
(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. Liner Remediation

Date: 7/24/01 Tuesday

Contract Day # 20

Weather: Cloudy + Warm
Temperature: 74° +/- 88° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① MWM vacuum box testing seams on both East and West slopes - some leaks detected + marked for repair

② MWM trimmed 60 mil textured HDPE liner @ base of West slope to 4' for bottom anchor

③ T permanently marked + organized the destructive test coupons + the roll labels

④ MWM installed a 4' wide cap strip over seam P1 / existing on the East slope. Cap strip still needs extrusion welding.

⑤ MWM received destructive test results - everything o.k. except PO / existing on West slope. MWM plans to cap like East slope.

⑥ MWM extrusion welding patches over destructive test + air test locations on West slope

⑦ Progress meeting w/ Susan Metcalfe (County)

Tests Performed: φ

Materials Delivered: φ

Visitors: φ

Defective Work to be Corrected: φ

Signed: Dan P

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

MWM
Tuesday
7/24/01

Jones
Edmunds &
Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM vac. box testing both slopes - some leaks detected & are marked for repair
- ② MWM trimmed 60 mil tex HDPE liner @ base of West slope to 4' for bottom anchor

SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	10	1	Cloudy & Warm Several light rains during day TEMP: HIGH 88° HRS. LOST DUE TO: 1 FOG LOW 74° (RAIN) COLD WET SURF.
FOREMAN	1	10	1	
SKILLED	5	10	1	
SEMI-SKILLED	1	10	1	
COMMON				
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE			30' Storage	FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 4810 Pavi-Track	F-END LOADER	1	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda EB6500-2X	GENERATOR	8+	0		TRAFFIC ROLLER		
	DOZER				GRADALL				WATER TRUCK		
J/D 455G	DOZER	0	0		GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			Wacker 8.5 Generator		4	0
	DAGLINE				MECH. TAMP			Wacker BPU Rev. Plate			
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						SEE BACK

SEE BACK

CAUSE OF DELAY: * Several light rains today which stopped work briefly

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
Ø	Ø
SEE BACK	SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
03860-008-01-0109	Citrus Limer Repair		Tuesday	20
VISITORS:		OWNER OR OWNER REP.: Susan Metcalfe		
		ENGINEER'S OBSERVER: Dan L.		

DESCRIPTION OF WORK

- ③ I permanently marked & organized the dest. coupons & the roll labels
- ④ MWM installed a 4' wide cap strip over the ext. weld @ P1/existing on the East slope. Cap strip from roll # 1047-5 - cap strip still needs ext. welding
- ⑤ MWM received dest. test results - everything o.k. except PO to existing on West slope. MWM plans to run cap strip just as done on E. slope.
- ⑥ MWM ext. welding patches from dest. & A.T. on West slope
- ⑦ progress meeting w/ Susan Metcalfe (C.)

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. Liner Remediation

Date: 7/25/01 Wednesday

Contract Day # 21

Weather: P.C. + Hot

Temperature: 74° +/- 94° +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① I met w/ Raymond Wild (MWM Pres.) + Stafford Cosby (MWM Supt.) on site @ 7:30 AM. Ray Wild feels MWM is not responsible for welding new liner to existing liner on North end of both slopes. Mr. Wild was very volatile, so I suggested he submit a RFI to JEA. This suggestion did not make Mr. Wild any happier. My suggestion ended the meeting.

② MWM ~~is~~ installed + extrusion welded a cap strip over the area between DS 2-A + DS 2-B on the East slope.

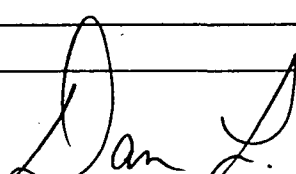
③ Stafford Cosby (MWM Supt.) ended work @ site after a phone conversation w/ Ray Wild - MWM off site @ 11:00 AM

Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed: 

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

MWM
Wed. 7/25/01

Jones
Edmunds &
Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

FIELD DRAFT
(Subject to Engineer's Review)

Telephone: (904) 377-5821 • FAX (904) 377-3166

730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

① I met w/ Raymond Wild (MWM Pres.) + Stafford Cosby (MWM Supt.) on site @ 7:30 AM. Ray Wild feels he is not responsible for welding new liner to old - Mr. Wild was very volatile, so I suggested him to submit a RFI - this suggestion did SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	3	7	Hazy AM
FOREMAN				
SKILLED	4	3	7	P.C. & Hot PM
SEMI-SKILLED	1	3	7	
COMMON				TEMP: HIGH 94 HRS. LOST DUE TO: ☐ FOG LOW 74 RAIN COLD WET SURF.
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED			
TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD	TYPE	EQUIPMENT	HW	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK				PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE			30' Storage	FIELD OFFICE	8	0		PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK			Cat 4810 Pos. - Truck	F-END LOADER	0	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR			Honda FB 6500-2x	GENERATOR	3	0		TRAFFIC ROLLER		
J/D 455 6	DOZER	0	0		GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			Wacker 8.5	Generator	0	0
	DRAGLINE				MECH. TAMP			Wacker BPU	Rev. Plate	0	0
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						

SEE BACK

CAUSE OF DELAY: X Ray Wild shut down job per Stafford Cosby (MWM)

SEE BACK

SUBCONTRACTORS WORKING:	UTILITY COMPANIES WORKING:
Φ	Φ
SEE BACK	SEE BACK

REMARKS:

SEE BACK

JEA PROJECT NO.	JEA PROJECT NAME	DATE:	DAY OF WEEK:	CONTRACT DAY NO.:
03860-008-01-0100	Citrus Co. Liner Repair	7-25-01	Wednesday	21
VISITORS: Raymond Wild (Pres. MWM South)		OWNER OR OWNER REP.: Susan Metcalfe		
		ENGINEER'S OBSERVER: Don L.		

DESCRIPTION OF WORK

not make Mr. Wild any happier. My suggestion ended the meeting.

② MWM installed + ext. welded cap strip over area between DS 2-A + DS 2-B on E. slope

③ Stafford Cosby ended work after a phone ~~call~~ conversation w/ Ray Wild - MWM off site @ 11:00Am

JONES, EDMUNDS & ASSOCIATES, INC.
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DAILY OBSERVATION REPORT
FIELD DRAFT
(Subject to Engineer's Review)

Report No.: 03860-008-01-0100
Citrus Co. Liner Remediation

Date: 10/4/01

Thursday

Weather: M. Sunny + Warm

Temperature: 64 +/- 84 +/-

Contractor: MWM South

Work Force: See Attached Equipment: See Attached

Work Activities: ① MWM installing white reinforced PE rain cover on the East slope. They installed 3 panels yesterday + intend to finish East slope today.

② Installation procedure includes cutting the PE sheet to length, sewing the field seam, taping both sides (top + bottom) of sewn seam, + burying the top in a
→ 6" wide x 12" deep anchor trench.

③ Per Chuck (MWM Supt.), the County is responsible for anchoring @ the bottom of the slope

Tests Performed: Ø

Materials Delivered: Ø

Visitors: Ø

Defective Work to be Corrected: Ø

Signed: Dan L.

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

MWM South
Thursday 10/4/01
Citrus Co. LF

Jones
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Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

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730 North Waldo Road • Gainesville, Florida 32641

DAILY REPORT OF CONSTRUCTION

DESCRIPTION OF WORK

- ① MWM inst. PE rain cover on E. slope - try to finish today
- ② Procedure includes pulling sheet of PE to length, sewing the field seams, taping both sides (top & bottom) of sewn field seams, & burying top in 6" x 12" anchor trench → SEE BACK

PERSONNEL	NO.	HRS. WORK'D	HRS. DELAY'D	DESCRIBE WEATHER AND EFFECTS OF WEATHER ON THE JOB:
SUPT.	1	8+	0	M. Sunny & Warm
FOREMAN				
SKILLED	4	8+	0	
SEMI-SKILLED				
COMMON				TEMP: HIGH 84° HRS. LOST DUE TO: 0 FOG LOW 64° RAIN COLD WET SURF.
TRAINEES				

HRS. WORKED/HRS. DELAYED				HRS. WORKED/HRS. DELAYED				HRS. WORKED/HO			
TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD	TYPE	EQUIPMENT	HWI	HD
	AIR COMP.				DUMP TRUCK				MOTOR GRADER		
	ARROW BOARD				DUMP TRUCK			Ford 1 Ton	PICKUP TRUCK		
	ARROW BOARD				DUMP TRUCK			Ford Ranger	PICKUP TRUCK		
	ASPH. LEVEL BOX				EARTHMOVER				PICKUP TRUCK		
	ASPH. PAVER				EARTHMOVER				PILE BURNER		
	BACKHOE				EARTHMOVER				POWER BROOM		
	BACKHOE				FIELD OFFICE				PUMP		
	CRANE-CRAW				FLATBED TRUCK				SPREADER		
	CRANE-TRUCK		ASV 48/D Posi		F-END LOADER	4	0		STEEL ROLLER		
	CURB MACHINE				F-END LOADER				SWEEPER BROOM		
	DISTRIBUTOR				GENERATOR				TRAFFIC ROLLER		
	DOZER				GRADALL				WATER TRUCK		
	DOZER				GREASE TRUCK				VIB. ROLLER		
	DOZER				LABOR VAN			Vermeer Walk-behind trencher		1	0
	DRAWLINE				MECH. TAMP						
	DUMP TRUCK				MIXER						
	DUMP TRUCK				MOTOR GRADER						SEE BACK

CAUSE OF DELAY:

* Too much moisture in air in AM for seam tape to adhere to rain-cover — had to wait for sun to clear the trees to dry the moisture

SEE BACK

SUBCONTRACTORS WORKING:

0

SEE BACK

UTILITY COMPANIES WORKING:

0

SEE BACK

REMARKS: * North end of the East slope has mulch (sticks) for subgrade — DTI says Citrus Co. resp. for subgrade

SEE BACK

JEA PROJECT NO. 03860-008-01-0100 JEA PROJECT NAME Citrus Co. Liner Remed. DATE: 10/4/01 DAY OF WEEK: Thursday CONTRACT DAY NO.: N/A

VISITORS:

OWNER OR OWNER REP.: Susan Metcalf
ENGINEER'S OBSERVER: Dan Z.

DESCRIPTION OF WORK

Citrus Co. responsible for anchoring @ bottom
of slope

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730 N.E. Waldo Road
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DAILY OBSERVATION REPORT

FIELD DRAFT

(Subject to Engineer's Review)

Report No.: 03860-008-01-0100

Citrus Co. Liner Remediation

Date: 10/9/01

Tuesday

Weather: Cloudy, Windy, & Cool

Temperature: 62 +/- 82 +/-

Contractor: MWM South

Work Force: N/A

Equipment: N/A

Work Activities: ① MWM has demobilized until the County has the West slope prepared for rain cover installation.

② The North side of the East slope rain cover is simply ballasted w/ sandbags. The intent was for this side to be in an anchor trench. Notified David Krough (JEA) via fax of this & several other issues.

③ RPR photographed various aspects of the rain cover installation - see photo log

Tests Performed:

Ø

Materials Delivered:

Ø

Visitors:

Ø

Defective Work to be Corrected: See fax dated 10/9/01

Signed:

Don L.

Resident Project Representative

JONES, EDMUNDS & ASSOCIATES, INC.

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

Report No.: 03860-008-01-0100

Citrus Co. Liner Remediation

Date: 10/30/01

Tuesday

Weather: Cloudy + Cool

Temperature: _____

Contractor: MWM South

Work Force: Not on Site

Equipment: Not on Site

Work Activities: ① Delivered DS archive & material roll labels to Susan Metcalfe @ Citrus Co. Solid Waste

② Met briefly w/ Susan Metcalfe to discuss project satisfaction and completeness.

③ Observed the project areas and noted any deficiencies.

Tests Performed: ϕ

Materials Delivered: ϕ

Visitors: ϕ

Defective Work to be Corrected: ϕ

Signed: _____

Dan L.

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

FIELD DRAFT
(Subject to Engineer's Review)

Destructive Samples for East Slope
Sample size 14" x 3'

criteria: - one DS per 500 LF or 3 per seaming period - whichever is greater

- plus, judgemental samples as needed

P1 extruded

DX1

59' from top

P 1/2 } one seaming period

P 2/3 } 7/6/01 PM

3

DS1 53' from top

DS2 52' from top

P 3/4

P 4/5

P 5/6

P 6/7

~~one seaming period~~

7/7/01 AM

~~DS3~~

DS3 46' from top

3 tests

P 8/9

P 9/10

P 10/11

P 11/12

~~one seaming period~~

7/7/01 PM

~~DS4~~

DS4 36' " "

DS5 38' from top

P 12/13

P 13/14

P 14/15

P 15/16

DS6 33' from top

~~one seaming period~~

7/8/01 AM

DS8

3 tests DS7 29' from top

27' " "

~~* will take one DS per lap to fulfill criteria *~~

P1 to existing liner: 7/7/01 top 20' - one seaming pe

7/8/01 remainder - one seaming per

DX 1 P1 to existing 59' from top

DS1 P1/2 53' from top

DS2 P2/3 52' from top

one seaming
period 7/6/01

FIELD DRAFT

(Subject to Engineer's Review)

DS3 P6/7 46' from top

DS4 P10/11 36' from top

DS5 P11/12 37' from top

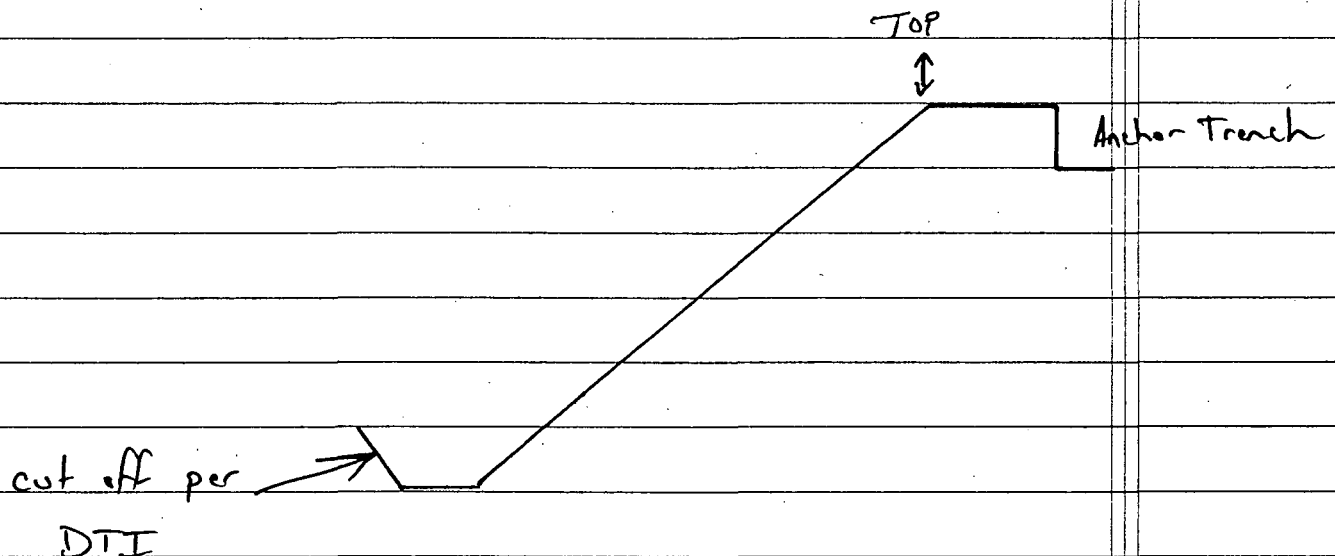
one seaming
period 7/7/01

DS6 P12/13 33' from top

DS7 P13/14 29' from top

DS8 P14/15 27' from top

one seaming
period 7/8/01



Scam Lengths East Slope

FIELD DRAFT
(Subject to Engineer's Review)

P1 - 103'

P1/2 - 90'

P2/3 - 80'

P3/4 - 79'

P4/5 - 76'

P5/6 - 74'

P6/7 - 71'

P7/8 - 68'

P8/9 - 67'

P9/10 - 62'

P10/11 - 59'

P11/12 - 59'

P12/13 - 56'

P13/14 - 53'

P14/15 - 54'

P15/16 - 21'

P16 - 8'

subtract 2' for cutting of
bottom per DTI

West Slope Destructive Tests

DX 2 PO to existing - extrusion weld

DS9	P 0/1	} wedge welds
DS10	P 3/4	
DS11	P 6/7	
DS12	P 9/10	
DS13	P 11/12	
DS14	P 13/14 judgemental	
* DS15	P 15/14	

* moved this test location because P 15/16 unable to air test + had to ext. weld entire seam

7/16/01 Seaming Period	{	DX-2	POA to existing	40'	from bottom
		DS-9	POB/1	102'	from top
		DS-10	P 3/4	88'	" "
		DS-11	P 6/7	73'	" "
7/12/01 Seaming Period	{	DS-12	P 9/10	57'	" "
		DS-13	P 11/12	45'	" "
		DS-14	P 13/14	27'	" "
		DS-15	P 14/15	16'	" "

Seam Length - West Slope

POA/OB	12'
POA/existing	96'
POB/existing	34'
P0/P1	129'
P1/P2	123'
P2/3	121'
P3/4	117'
P4/5	111'
P5/6	106'
P6/7	101'
P7/8	94'
P8/9	90'
P9/10	83'
P10/11	79'
P11/12	67'
P12/13	65'
P13/14	57'
P14/15	49'
P15/16	39'
P16/17	17'

JONES, EDMUNDS & ASSOCIATES, INC.

730 N.E. Waldo Road
Gainesville, Florida 32641
(352) 377-5821

DAILY OBSERVATION REPORT

Report No.: 03860-004-C1

CITRUS CO CENTRAL LF LINER REMEDIATION

Weather: P/Cloudy
Temperature: AM 67° +/-

Date: 1-25-02

(4) HOURS

Contractor: MWM SOUTH

Work Force: NONE ON SITE Equipment: NONE ON SITE

Work Activities: THE PURPOSE OF SITE VISIT WAS TO DISCUSS THE REMEDIATION TO THE DURASKRIM (RAMCOAT) AS A RESULT OF WIND BLOWN DAMAGE. AT THE REQUEST OF CLIENT, SUSAN METCALFE, I WAS TO MEET WITH JEFF WILD, PROJECT MANAGER MWM SOUTH. UPON ARRIVING I WAS INFORMED THAT MR. WILD WAS NOT GOING TO ATTEND. THE WEST SIDE SLOPE STORMWATER GEOMEMBRANE INSTALLATION REMAINED INCOMPLETE WITH THE FOLLOWING AREA'S OF CONCERN:

- ANCHORING INCOMPLETE - BACKFILLING, ATTENDING TERMINATION
- HORIZONTAL SEAM WITH NUMEROUS HOLES
- PIPE PENETRATIONS
- TAPE USED TO COVER SEAMS INCORRECTLY INSTALLED
- WRINKLES ARE PRESENT
- CUTS & TEARS HAVE NOT BEEN REPAIRED
- SAND BAGS WERE LEFT UNDER THE LINER

A TOTAL OF (45) DEFECTIVE AREA'S HAVE BEEN IDENTIFIED DURING THIS SITE VISIT

Tests Performed: NONE

Materials Delivered: NONE

Visitors: SUSAN METCALFE, & PUBLIC WORKS DIRECTOR

Defective Work to be Corrected: SEE ABOVE

Signed: Daniel T. Chell

Resident Project Representative
JONES, EDMUNDS & ASSOCIATES, INC.

*problems?
45
defects!*

APPENDIX C

**INSTALLATION CONTRACTOR
DAILY PROGRESS REPORTS**

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stafford Cooley
 Project Liner Repair & Citrus Co Cond filled
 → MWM SOUTH JOB No. 10563

Day Sun Date 7/8/01
 Weather: Sunny ☒ Cloudy ☐ Rain ☐ Snow ☐
 Temperature: High _____ Low 73°
 Time: Start 7am End 5:30

MWM Employee	Hours	Labor Service Names	Hours
1 C.B. Taylor	10	1 Bruce Seckel	9
2 B. Williams	10	2 Tim Brown	9
3 Maurice Churn	10	3	
4 Antonio River	10	4	
5 Antonio River	10	5	
6		6	
7		7	
8		8	
Total Hours		Total Hours	

Description of work. East Slope, 60 mil HDPE Peftured Liner
Air Testing, DS. testing, Repairs, Welded 3 Seams

Equipment used and rented. Dozer, 455 SD Track Loader, 6x4 5000 Gen, 5000, Honda Gen, Hot Slope Welder, Repair Welder, Air testing Equipment 3000 Honda

ADDITIONAL INFORMATION

West Slope

24 hours 264⁰⁰ 0140

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stallard Cooley
 Project Citrus Co Canal Filling

Day mon Date 7/9/01

Weather: Sunny ☉ PM Snow

Temperature: High _____ Low _____

Time: Start 7:00 AM End 5:30 PM

MWM SOUTH JOB No. 10563

MWM Employee	Hours	Lebor Service Names	Hours
1 C.B. Taylor	10	1 Jim Bourn	4 1/2
2 marginal abram	10	2 Bruce Jachish	4 1/2
3 antonio Rivas	10	3 Shawn Henson	4 1/2
4 Octaviano Serrano	10	4	
5 B. Williams	10	5	
6		6	
7		7	
8		8	
Total Hours		Total Hours	

Description of work.

East slope 6000 ft HDPE liner, OS Tailing
Patch up, Clean up Extension, welding

Equipment used and rented.

Repair welder, Small Hand tools, 85Kw
Gen, 6500 Honda, 5000 Honda Gen, 6X4 SD Gator,
Trax, truck, 455 SD Truck Loader, Pave Truck.

ADDITIONAL INFORMATION

Chuck @ Mission

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

Stefford Casey

Project

Citrus Co LandfillDay TueDate 7/10/01

Weather:

Sunny Cloudy Rain Snow

Temperature:

High _____ Low _____

Time:

Start 7:00am End 12:00pmMWM SOUTH JOB No. 10563

MWM Employee		Hours	Labor Service Name		Hours
1	<u>C.B. Taylor</u>	<u>4</u>	1	<u>Jim Bernal</u>	<u>4</u>
2	<u>B. Williams</u>	<u>4</u>	2	<u>Shawn Stinson</u>	<u>4</u>
3	<u>Maurice Brown</u>	<u>4</u>	3	<u>Scott Boley</u>	<u>4</u>
4	<u>Antonio River</u>	<u>4</u>	4		
5	<u>Octaviano Soto</u>	<u>4</u>	5		
6			6		
7			7		
8			8		
Total Hours			Total Hours		

Description of work.

East Side bermil HDPE textured liner, D.S. patch
and repairs - 1/2 inch Bolt, Concrete Extension welding

Equipment used and rented.

455 5D Truck loader, Post truck, 6x4 Ditch
Small Hand tools,

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

Stafford Cash
Citrus Co Landfill

Project

Day

Thurs Date 7/12/01

Weather:

Sunny Cloudy Rain Snow

Temperature:

High _____ Low _____

Time:

Start 7:00 am End 5:30

→ MWM SOUTH JOB No. 10563

MWM Employee		Hours	Labor Service Names		Hours
1	C.B. Taylor	10	1	John Koebe	8
2	B. Williams	10	2	Rick Randolph	8
3	Octaviano Silva	10	3	Tom Nashinch	8
4	Antonio River	10	4		
5			5		
6			6		
7			7		
8			8		
Total Hours			Total Hours		

Description of work.

West slope bonill HDPE textured liner, we
Installed 9 panels of liner and welded them,

Equipment used and rented.

455 3.0 T Rock loader / Doze Track, 8.5 KW Gen
6500 Honda Gen, 5000 Honda Gen, Hot shoe welder, Repin
welder, Small hand tools, Transmitter

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

Project

Stefford Cosh
Citrus Co Landfill

Day FriDate 7/13/01

Weather:

Sunny

☒ Cloudy ☐ Rain ☐ Snow

Temperature:

High

Low

Time:

Start

Thru End 2:25pmMWM SOUTH JOB No. 16563

MWM Employee		Hours	Laborer Name		Hours
1	C.B. Taylor	5	1	John Perry	4
2	B. Williams	5	2	Sean Lee	4
3	Antonio Rios	5	3	Allen Langley	4
4	Octaviano Suarez	5	4		
5	Leonel Suarez	5	5		
6			6		
7			7		
8			8		
Total Hours			Total Hours		

Description of work:

60mil HDPE textured liner Backfilling Anchor
Trench East side

Equipment used and rented:

Posi-Truck, 455 Truck loader, 6x4 50 Caber
6500 Honda 4.5 KW Gen 5000 Honda Gen, Hot Shop welder, Repair
welder, small hand tools

ADDITIONAL INFORMATION

Wet Slope, was not able to Deploy any liner do to Rain
Exposures

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stafford Coaling & Chuck
Project Citrus Co Landfill

Day Mon Date 7/16/01
Weather: Sunny Cloudy Rain Snow
Temperature: High _____ Low _____
Time: Start 7:15 AM End 5:30

MWM SOUTH JOB No. 10563

MWM Employee		Hours	Labor Service Names		Hours
1	C.B. Taylor	10	1	RISAL VILLEGAS	10
2	B. Williams	10	2		
3	Antonio Rios	10	3		
4	Robertson Storey	10	4		
5	Albert Gonzalez	10	5		
6	Timothy M. Hara	10	6		
7	Tortulato Oregan	10	7		
8	Leach Simpson	10	8		
Total Hours		10	Total Hours		

Description of work: 60 mil HDPE Textured Liner west slope, we installed
7 panel of Liner and welded them

Equipment used and rented: 455 5D Track Loader, Perimeter, 1-8.5KW Gen
1-6.5KW Honda Gen - 1-5000 Honda, Hot Shoe Walker, Repair weld
Small Hand tools

ADDITIONAL INFORMATION

Backfilling another trench East slope 2 Calaver



DAILY REPORT FORM

Supervisor Chuck JohnsonDay TUES Date 2/10/01Project Arrow Land Bill

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. 10563

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	<u>MURICE A</u>	<u>4</u>	1		
2	<u>ANTONIO</u>	<u>4</u>	2		
3	<u>OCTAV</u>	<u>4</u>	3		
4	<u>LEO</u>	<u>4</u>	4		
5	<u>RIDEL V</u>	<u>4</u>	5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work

BRICK MALL PATIENS OFFER D.S. on
BEST SLOPP & BACK BILL TRUCK

Equipment Utilized and Rented



DAILY REPORT FORM

Supervisor Charles Johnson
Project CIRCUIS LANDFILL

Day WED Date 7/18/01
Weather: Sunny Cloudy Rain
Temperature: High _____ Low _____
Time: Start _____ End _____

→ MWM SOUTH Job No. 10563

	MWM Employee	Hours		Labor Service/Names	Hours
1	MARILE A.	5 ✓	1		
2	ANTONIO R	5	2		
3	CELAN	5	3		
4	LEE	5 ✓	4		
5	BOB	5	5		
6	BOB	5	6		
7	AB	5 ✓	7		
8	BYRON	5	8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work	FINISH BACK FILL TROUGH ON
	EAST SLOPE + COMPACT
Equipment Utilized and Rented	



DAILY REPORT FORM

Supervisor CLARK JOHNSONDay FRI Date 7/20/01Project CORPUS LAND RISE

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. 10563

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	<u>MAURICE A</u>	<u>2</u>	1		
2	<u>LAD</u>	<u>2</u>	2		
3	<u>CB</u>	<u>2</u>	3		
4	<u>BYRON</u>	<u>2</u>	4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work	<u>Fix GRASS & POSEY TRUCK</u>
<u>(RAIN OUT)</u>	<u>GRASS 455</u>
Equipment Utilized and Rented	

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

Stefford CosleyDay SatDate 7/21/01

Project

Cathey Co Landfill

Weather:

Sunny

Cloudy

Rain

Snow

Temperature:

High

Low

Time:

Start

7:00

End

4:30MWM SOUTH JOB No. 10563

	MWM Employee	Hours		Labor Service Names	Hours
1	<u>B. Williams</u>	<u>9</u>	1		
2	<u>Antonio Rivers</u>	<u>7</u>	2		
3	<u>Octaviano Saver</u>	<u>7</u>	3		
4	<u>Maurice Adams</u>	<u>7</u>	4		
5	<u>Michael</u>	<u>7</u>	5		
6			6		
7			7		
8			8		
	Total Hours			Total Hours	

Description of work.

West slope 60 mil HDPE textured liner
air testing, patching,

Equipment used and rented.

6500 Honda Gen, 5000 Honda Gen, 85K Gen,
Positouch, 455 50 Tractor loader, 6x4 50 Gal

ADDITIONAL INFORMATION

MWM South, Inc.
30940 Suneagle Drive, Ste. 100
Mount Dora, FL 32757-9785
(352) 383-7148 Fax (352) 383-0540

INVOICE #: 4378
INVOICE DATE: 10/16/01
PERIOD TO: 10/12/01
APPLICATION #: 3
CONTRACT DATE: 05/09/01
DUE DATE: 11/15/01

CONTRACT/P.O.#:

BILL TO: CITR

Citrus County
 Division of Solid Waste
 P.O. Box 340
 Lecanto, FL 34460

JOB: 10583

Citrus County Landfill
 230 W. Gulf to Lake Hwy.
 P.O. Box 340

<<<< This Application >>>>

CODE	DESCRIPTION	SCHEDULED VALUE	PREVIOUS APPLICATIONS	CURRENT COMPLETED	STORED MATERIALS	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH	RETAINAGE
01	Installation of 60 Mil Textured HDPE Membrane Liner (Material Supplied by Others) 78,750SF @ Lump Sum	24,180.00	24,180.00			24,180.00	100.0		2,418.00
02	Furnish & Install Dura Skrim BWD16 Reinforced Polyethylene Rain Cover (Sewn and Taped Seams) 182,400SF @ \$0.294PSF	53,625.60	41,939.70	7,946.48		49,886.18	93.0	3,739.42	794.65
04	Bond Cost @ \$35.00 per \$1000.00 MWM South Proposal Item #5 80,305.60 Bonded	2,810.85	2,810.85			2,810.85	100.0		
	TOTALS:	80,616.45	68,930.55	7,946.48	0.00	76,877.03	95.4	3,739.42	3,212.65
001	Addl Mobilization (See Attached Change Order C001)	2,500.00	2,500.00			2,500.00	100.0		
002	Addl Mobilization	2,500.00		2,500.00		2,500.00	100.0		
	TOTALS:	85,616.45	71,430.55	10,446.48	0.00	81,877.03	95.4	3,739.42	3,212.65

PREVIOUS RETAINAGE.....\$ 2,418.00
 CURRENT BILLING.....\$ 10,446.48
 NEW RETAINAGE.....\$ 794.65

ORIGINAL CONTRACT SUM.....\$ 80,616.45
 CHANGE BY CHANGE ORDER.....\$ 5,000.00
 CONTRACT SUM TO DATE.....\$ 85,616.45
 TOTAL COMPLETED & STORED TO DATE.....\$ 81,877.03
 TOTAL RETAINAGE.....\$ 3,212.65
 TOTAL EARNED LESS RETAINAGE.....\$ 78,664.38
 LESS PREVIOUS CERTIFICATES FOR PAYMENT..\$ 69,012.55

CONTRACTOR:

MWM South, Inc.
 John G. Mickus - Sect/Treas

DATE:

11/14/01

ARCHITECT:

DATE:

CURRENT PAYMENT DUE.....\$ 9,651.83

Thank you for your business!

page 1 of 1

APPENDIX D

INSPECTION DATA SHEETS



August 01, 2001

Mr. Daniel T. Inkell
Jones Edmunds & Associates, Inc.
730 NE Waldo Road
Gainesville, FL 32641-7599

fax: 352-377-3166

Dear Mr. Inkell:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing in support of the Citrus Co. Central Landfill Liner Remediation project.

TRI Job Reference Number: 2151-97-07

Material(s) Tested: 2 textured geomembranes

Test(s) Requested: Density (ASTM D 1505)
Tensile Properties (ASTM D 4885)
Carbon Content (ASTM D 1603, mod.)
Thickness (ASTM D 5994)
Oxidative Induction Time (ASTM D 3895)
Notched Constant Load SCR (ASTM D 5397)

Updating =>

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen
Vice President and Division Manager - Geosynthetics Technologies



GEOMEMBRANE TEST RESULTS - Notched Constant Load Stress Crack Resistance
ASTM D 5397, Appendix (Single Point Test)

CLIENT: JEA
CLIENT PO # or PROJECT: Citrus County Central Landfill Liner Remediation
TRI LOG NUMBER: 2151-97-07
SAMPLE ID: 1051
MATERIAL: 60 mil smooth edge

SURFACTANT: CO-630
EXPOSURE PERIOD: <200> hours
STATION DESIGNATION: BOX 1
TEST TEMPERATURE: 50C

Transverse direction yield stress:	<u>2661</u>	(psi)	Mechanical Advantage	<u>5</u>
x 30%	<u>798</u>	(x 0.30)	Lever Weight	<u>0.30</u> (lbs)
x hinge thickness (in)	<u>0.0480</u>	(80 % of nominal sheet thickness)	Grip Weight	<u>0.09</u> (lbs)
x specimen width	<u>0.125</u>	(0.125")		
Load	<u>4.79</u>	(lbs)		

Applied load = (Load - Lever Weight + Grip Weight)/Mechanical Advantage = 0.92 lbs = 416 grams

Replicate No.:	1	2	3	4	5	AVG
No. Hours to Failure:	<u>> 200</u>	<u>> 200</u>	<u>> 200</u>	<u>> 200</u>	<u>> 200</u>	<u>> 200</u>

Quality Review/Date: SZA 08-01-01

MD Machine Direction
TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

**TRI/ENVIRONMENTAL, INC.***A Texas Research International Company***GEOMEMBRANE TEST RESULTS - Notched Constant Load Stress Crack Resistance**
ASTM D 5397, Appendix (Single Point Test)

CLIENT: JEA
CLIENT PO # or PROJECT: Citrus County Central Landfill Liner Remediation
TRI LOG NUMBER: 2151-97-07
SAMPLE ID: 1045
MATERIAL: 60 mil smooth edge

SURFACTANT: CO-630
EXPOSURE PERIOD: <200> hours
STATION DESIGNATION: BOX 1
TEST TEMPERATURE: 50C

Transverse direction yield stress:	<u>2620</u>	(psi)	Mechanical Advantage	<u>5</u>
x 30%	<u>786</u>	(x 0.30)	Lever Weight	<u>0.30</u> (lbs)
x hinge thickness (in)	<u>0.0480</u>	(80 % of nominal sheet thickness)	Grip Weight	<u>0.09</u> (lbs)
x specimen width	<u>0.125</u>	(0.125")		
Load	<u>4.72</u>	(lbs)		

Applied load = (Load - Lever Weight + Grip Weight)/Mechanical Advantage = 0.90 lbs = 409 grams

Replicate No.:	1	2	3	4	5	AVG
No. Hours to Failure:	> 200	> 200	> 200	> 200	> 200	> 200

Quality Review/Date: SRA 08-01-01

MD Machine Direction
TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



July 2, 2001

RECEIVED

JUL 05 2001

Mr. Daniel T. Inkell
Jones Edmunds & Associates, Inc.
730 NE Waldo Road
Gainesville, FL 32641-7599

JONES, EDMUNDS & ASSOC.

fax: 352-377-3166

Dear Mr. Inkell:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing in support of the Citrus Co. Central Landfill Liner Remediation project.

TRI Job Reference Number:	2151-97-07
Material(s) Tested:	2 textured geomembranes
Test(s) Requested:	Density (ASTM D 1505) Tensile Properties (ASTM D 4885) Carbon Content (ASTM D 1603, mod.) Thickness (ASTM D 5994) Data Pending => Oxidative Induction Time (ASTM D 3895) Data Pending => Notched Constant Load SCR (ASTM D 5397)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen
Vice President and Division Manager - Geosynthetics Technologies



GEOMEMBRANE TEST RESULTS

Client: Jones Edmunds & Associates, Inc.
Project: Citrus County Central Landfill Liner Remediation

Material: Poly-Flex 60 mil textured geomembrane
Blend #: 8210434 Roll #: GR-6-01-1045-5
TRI Log #: E2151-97-07

SRA-07-02-01

Quality Review/Date

PARAMETER	TEST REPLICATE NUMBER										STANDARD PROJECT		
	1	2	3	4	5	6	7	8	9	10	MEAN	DEV.	SPEC.
Carbon Black Content (ASTM D 1603, mod.)													
% Carbon Black	2.92	2.82									2.87	0.05	N/A
Density (ASTM D 1505)													
Density (g/cm3)	0.946	0.946	0.946								0.946	0.000	N/A
Tensile Properties (ASTM D 4885, 0.04 ipm strain rate)													
MD Yield Strength (ppi)	130	131	132	132	133	133					132	1	126 min
TD Yield Strength (ppi)	137	136	137	137	135	135					136	1	126 min
MD Yield Elongation (%)	24.9	23.1	26.0	37.5	24.3	21.9					26.3	5.2	12 min
TD Yield Elongation (%)	19.6	19.9	20.0	21.1	20.5	20.6					20.3	0.5	12 min
Thickness (ASTM D 5994, for textured geomembrane)													
Thickness (mils)	57	63	62	59	60	61	61	63	58	61	61	2	N/A
											57	<< min.	

MD Machine Direction

TD Transverse Direction N/A Not Available

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.



GEOMEMBRANE TEST RESULTS

Client: Jones Edmunds & Associates, Inc.
Project: Citrus County Central Landfill Liner Remediation

Material: Poly-Flex 60 mil textured geomembrane
Blend #: 8210743 Roll #: GR-6-01-1051-5
TRI Log #: E2151-97-07

SR40202.01

Quality Review/Date

PARAMETER	TEST REPLICATE NUMBER										STANDARD PROJECT		
	1	2	3	4	5	6	7	8	9	10	MEAN	DEV.	SPEC.
Carbon Black Content (ASTM D 1603, mod.)													
% Carbon Black	3.01	2.93									2.97	0.04	N/A
Density (ASTM D 1505)													
Density (g/cm3)	0.946	0.946	0.946								0.946	0.000	N/A
Tensile Properties (ASTM D 4885, 0.04 ipm strain rate)													
MD Yield Strength (ppi)	128	139	146	143	125	124					134	9	126 min
TD Yield Strength (ppi)	126	127	128	128	122	122					126	3	126 min
MD Yield Elongation (%)	22.3	23.7	22.3	18.5	22.1	25.6					22.4	2.1	12 min
TD Yield Elongation (%)	19.6	21.3	20.6	19.7	19.6	19.6					20.1	0.7	12 min
Thickness (ASTM D 5994, for textured geomembrane)													
Thickness (mils)	57	55	60	56	60	60	58	67	62	62	60 55	3 << min.	N/A

MD Machine Direction

TD Transverse Direction N/A Not Available

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material.

TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

FUSION WELDER START-UP TEST

PROJECT: Citrus County Landfill

SUPERVISOR: Stafford Cosley

PAGE: _____

East Slope 60 mil textured liner

DATE	TIME	AMBIENT TEMP.	OPERATOR	MACH #	MACH. TEMP.	MACH. SPEED	SHEAR	PEEL INNER	PEEL OUTER
7/5/01	11:10		S.C	728	360	6.0	205	140	150
							205	155	155
							190	155	155
							205	155	155
							205		
7/5/01	11:15		S.C	726	365	6.0	185	165	165
							185	165	170
							200	165	165
							200	165	165
							195	170	170
7/6/01	8:11 AM	PC	B.C	726	365°	6.0	190	150	150
							190	150	150
							190	150	150
							200	145	150
								150	150
7/7/01	7:30 AM	PC	S.C	726	365°	6.0	200	150	160
							205	160	160
							200	160	160
							200	160	160
							195	160	160

POLY-FLEX, INC.

2000 W. Marshall Drive Grand Prairie, Texas 75051 USA

888-765-9359

972-337-7113

FAX 972-337-7233

CERTIFICATION DOCUMENTS

To: Citrus County Florida
P.O Box 340
Lecanto, FL 34460

Date: 6/12/01
Poly-Flex Proj #: 210350
Customer PO: 45319
Project Name:

Attn:

Fax N 1/0/00

Number of pages including cover: 5

Departure Date: 6/11/01
Destination: =
Carrier:

Trip No: 118396

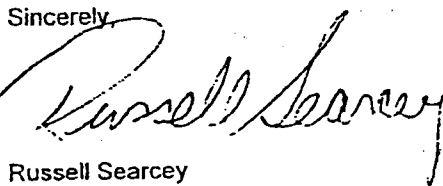
Additional Notes:

Distribution of Documents:

Shipment Inspection Sheet: 1
Roll Certification: 1
Resin Certification: 2
Other:

Attached please find documents for the above referenced shipment. Please let us know if you have any questions.

Sincerely,



Russell Searcey
1-888-765-9359 ext 7269

08/29/01

CERTIFICATION SHEET

DATE:

June 18, 2001

POLY-FLEX, INC.

2000 W. Marshall Drive
Grand Prairie, Texas 75051

PROJECT NO: 210350

ORDER NO: 411769

TRIP NO: 118396

CERTIFIED BY: L. Jackson

[illegible]



Houston Chemical Complex
P.O. Box 792, Pasadena, TX 77501

April 12, 2001

PSN# 9002-01

FAX: 972-337-7407

Poly America, Inc.
2000 West Marshall Drive
Grand Prairie, TX 75051

Dee Averitte

This letter will certify that the Marlex* resin shown below, as supplied by Chevron Phillips Chemical Company, conforms to our manufacturing specification.

NCTL, ASTM D5397-95 Appendix (modified), Avg: >500 hours
(not tested on each lot)

Type:	HHM TR-400G
Lot Number:	8210434
P.O. Number:	929586
Date Shipped:	04/12/01
Package:	PSPX 6939
Quantity:	185850 LBS.
HLMI Flow Rate, ASTM D1238:	9.6 G/10 MIN
Melt Index, ASTM D1238:	.060 G/10 MIN
Density, ASTM D1505:	.937 G/CC
Production Date:	04/03/01

Paul S. Newbold
Sr. Certification Systems Specialist

For COA questions call Carol Meza, 713-475-3625

* Reg. U.S. Pat. Off.

cc: QA-File-RC

Lisa
FAX: 972-337-7233

Jim Nobert
FAX: 972-337-7396

AGP Laboratories, Inc.

2004 E. Randol Mill, Suite 512
Arlington, TX 76011
(817) 861-9090
(800) 247-6030
Fax (817) 861-5400

To: ☒ Jeff Wild

Fax Number: (352) 383-0540

To: _____

Fax Number: _____

Results for AGP Project Number: MWM 3690 .001

For Project: Citrus County Landfill

From: AGP Laboratories, Inc.

Date: 7-10-01 Time: _____

Number of Pages (Including this one)

3

Message:

Please mark the DS #
clearly and correctly.
Thank

06/28/2001
MWM3690.001

ASTM D4437

Sample	Specimen Number	PEEL			SHEAR		
		Weld A	Weld B				
		lb / in.	% Peel	Failure Type	lb / in.	% Peel	Failure Type
DS 1	1	124		FTB/SEI	106		FTB/SEI
	2	102		FTB/SEI	112		FTB/SEI
	3	99		FTB/SEI	106		FTB/SEI
	4	124		FTB/SEI	103		FTB/SEI
	5	111		FTB/SEI	103		FTB/SEI
	AVG	112			106		170
DS 2	1	132		FTB/SEI	105		FTB/SEI
	2	121	30% FTB/AD-BRK		68	50% FTB/AD-BRK	
	3	89	80% FTB/AD-BRK		70	40% FTB/AD-BRK	
	4	99	70% FTB/AD-BRK		106		FTB/SEI
	5	81	90% FTB/AD-BRK		116	20% FTB/AD-BRK	
	AVG	104			93		168
DS 3	1	113		FTB/SEI	108		FTB/SEI
	2	114		FTB/SEI	115		FTB/SEI
	3	119		FTB/SEI	109		FTB/SEI
	4	112		FTB/SEI	127		FTB/SEI
	5	104		FTB/SEI	125		FTB/SEI
	AVG	112			117		166
DS 4	1	104		FTB/SEI	102		FTB/SEI
	2	105		FTB/SEI	102		FTB/SEI
	3	102		FTB/SEI	94		FTB/SEI
	4	98		FTB/SEI	101		FTB/SEI
	5	92		FTB/SEI	94		FTB/SEI
	AVG	100			99		156
DS 5	1	110		FTB/SEI	101		FTB/SEI
	2	114		FTB/SEI	113		FTB/SEI
	3	106		FTB/SEI	115		FTB/SEI
	4	122		FTB/SEI	121		FTB/SEI
	5	108		FTB/SEI	114		FTB/SEI
	AVG	112			113		149

ASTM D4437

Sample	Specimen Number	PEEL				SHEAR			
		Weld A		Failure Type	Weld B		Failure Type		
		lb / in.	% Peel		lb / in.	% Peel		lb / in.	% Peel
DS 6	1	110		FTB/SEI	127		FTB/SEI	152	
	2	120		FTB/SEI	126		FTB/SEI	147	
	3	119		FTB/SEI	117		FTB/SEI	152	
	4	117		FTB/SEI	128		FTB/SEI	150	
	5	116		FTB/SEI	120		FTB/SEI	149	
	AVG	116			124			150	
DS 7	1	120		FTB/SEI	115		FTB/SEI	148	
	2	117		FTB/SEI	129		FTB/SEI	139	
	3	118		FTB/SEI	123		FTB/SEI	145	
	4	121		FTB/SEI	114		FTB/SEI	148	
	5	126		FTB/SEI	126		FTB/SEI	148	
	AVG	120			121			146	
DS 8	1	99		FTB/SEI	112		FTB/SEI	151	
	2	92		FTB/SEI	106		FTB/SEI	142	
	3	79		FTB/SEI	104		FTB/SEI	146	
	4	116		FTB/SEI	115		FTB/SEI	150	
	5	106		FTB/SEI	105		FTB/SEI	151	
	AVG	98			108			148	

Jul-24-01 12:50P GeoTesting Texas

817 861 5400

P.03

ASTM D4437

Sample	Specimen Number	PEEL			SHEAR					
		Weld A			Weld B					
		lb/in.	% Peel	Failure Type	lb/in.	% Peel	Failure Type	lb/in.	% Peel	Failure Type
DS 11	1	115		FTB/SEI	116		FTB/SEI	169		FTB/SEI
	2	135		FTB/SEI	116		FTB/SEI	164		FTB/SEI
	3	123		FTB/SEI	126		FTB/SEI	168		FTB/SEI
	4	119		FTB/SEI	134		FTB/SEI	169		FTB/SEI
	5	118		FTB/SEI	116		FTB/SEI	168		FTB/SEI
	AVG	122			122			168		FTB/SEI
DS 12	1	120		FTB/SEI	114		FTB/SEI	174		FTB/SEI
	2	118		FTB/SEI	112		FTB/SEI	174		FTB/SEI
	3	120		FTB/SEI	113		FTB/SEI	175		FTB/SEI
	4	114		FTB/SEI	110		FTB/SEI	178		FTB/SEI
	5	116		FTB/SEI	116		FTB/SEI	176		FTB/SEI
	AVG	118			113			175		FTB/SEI
DS 13	1	120		FTB/SEI	113		FTB/SEI	175		FTB/SEI
	2	116		FTB/SEI	126		FTB/SEI	165		FTB/SEI
	3	120		FTB/SEI	114		FTB/SEI	168		FTB/SEI
	4	119		FTB/SEI	123		FTB/SEI	172		FTB/SEI
	5	119		FTB/SEI	128		FTB/SEI	171		FTB/SEI
	AVG	119			121			170		FTB/SEI
DS 14	1	115		FTB/SEI	119		FTB/SEI	150		FTB/SEI
	2	111		FTB/SEI	113		FTB/SEI	149		FTB/SEI
	3	116		FTB/SEI	112		FTB/SEI	147		FTB/SEI
	4	115		FTB/SEI	104		FTB/SEI	149		FTB/SEI
	5	121		FTB/SEI	104		FTB/SEI	151		FTB/SEI
	AVG	116			110			149		FTB/SEI
DS 15	1	82		FTB/SEI	105		FTB/SEI	157		FTB/SEI
	2	114		FTB/SEI	109		FTB/SEI	153		FTB/SEI
	3	116		FTB/SEI	102		FTB/SEI	157		FTB/SEI
	4	101		FTB/SEI	116		FTB/SEI	158		FTB/SEI
	5	115		FTB/SEI	103		FTB/SEI	156		FTB/SEI
	AVG	106			107			156		FTB/SEI

Jul-24-01 12:50P GeoTesting Texas

817 861 5400

P.02

07/24/2001
MWM3690.002

ASTM D4437

		PEEL				SHEAR			
Sample	Specimen Number	Weld A		Failure Type	Weld B		Failure Type		
		lb/in.	% Peel		lb/in.	% Peel		lb/in.	% Peel
DX 2 West Slope	1	97	100%	FTB/SEI			FTB/SEI	168	FTB/SEI
	2	106	100%	FTB/SEI			FTB/SEI	166	FTB/SEI
	3	98	90%	FTB/SEI			FTB/SEI	162	FTB/SEI
	4	66	100%	FTB/SEI			FTB/SEI	167	FTB/SEI
	5	46	90%	FTB/SEI	NO TEST		FTB/SEI	167	FTB/SEI
	AVG	83						166	
DS 2A East Slope	1	132		FTB/SEI	127		FTB/SEI	167	FTB/SEI
	2	131		FTB/SEI	131		FTB/SEI	162	FTB/SEI
	3	123		FTB/SEI	130		FTB/SEI	170	FTB/SEI
	4	137		FTB/SEI	122		FTB/SEI	171	FTB/SEI
	5	130		FTB/SEI	130		FTB/SEI	168	FTB/SEI
	AVG	131			128			168	
DS 2B East Slope	1	130		FTB/SEI	126		FTB/SEI	153	FTB/SEI
	2	127		FTB/SEI	124		FTB/SEI	152	FTB/SEI
	3	129		FTB/SEI	132		FTB/SEI	150	FTB/SEI
	4	134		FTB/SEI	120		FTB/SEI	162	FTB/SEI
	5	133		FTB/SEI	124		FTB/SEI	161	FTB/SEI
	AVG	131			125			156	
DS 9	1	105		FTB/SEI	110		FTB/SEI	168	FTB/SEI
	2	110		FTB/SEI	118		FTB/SEI	165	FTB/SEI
	3	105		FTB/SEI	114		FTB/SEI	165	FTB/SEI
	4	108		FTB/SEI	114		FTB/SEI	165	FTB/SEI
	5	101		FTB/SEI	111		FTB/SEI	169	FTB/SEI
	AVG	106			113			166	
DS 10	1	118		FTB/SEI	108		FTB/SEI	169	FTB/SEI
	2	118		FTB/SEI	110		FTB/SEI	158	FTB/SEI
	3	118		FTB/SEI	110		FTB/SEI	158	FTB/SEI
	4	116		FTB/SEI	106		FTB/SEI	161	FTB/SEI
	5	116		FTB/SEI	113		FTB/SEI	158	FTB/SEI
	AVG	117			109			161	

TELECOPY
TRANSMISSIONEngineering, Design & Construction
Membrane Lining Systems - Retaining Walls - Water FeaturesMWM South Job Number: 10563

SENDING TO: <u>David / Judy</u>	DATE: <u>8/21/01</u>
PROJECT: <u>Citrus County Linear Warranty Issues</u>	
OFFICE: <u>SEA</u>	
FAX NO.: <u>352 377-3166</u>	
ORIGINATOR: <u>Jeff Wild, P.E.</u>	

TOTAL NUMBER OF PAGES BEING SENT (Including cover sheet): <u>9</u>
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Remarks:

Independent testing results on
field seams at Citrus.

* DS-1 thru DS-15 are "DAW" or double
hot wedges on poly-flex mat'l.

* DX-2 is "EXT" or extrusion weld on
west slope

Jeff Wild, P.E.

Vice President

* DX-1 was not sent in (East slope extrusion weld)

**GeoTesting Express, Inc.**

2004 E. RANDOL MILL, SUITE 512
ARLINGTON, TX 76011
817-861-9090 (FAX) 817-861-5400

July 10, 2001

MWM South, Inc.
Attn: Jeff Wild
30940 Suneagle Drive
Mt. Dora, FL 32757

RE: Client Job- Citrus County Landfill
GTX Project Number: MWM 3690.001

Dear Mr. Wild:

Eight (8) samples were received for testing on 07/10/01. The samples were identified as follows:

<u>SAMPLE I.D.</u>	<u>GTX COMMENTS</u>	<u>SAMPLE I.D.</u>	<u>GTX COMMENTS</u>
DS 1	GMT/DHW	DS 5	GMT/DHW
DS 2	GMT/DHW	DS 6	GMT/DHW
DS 3	GMT/DHW	DS 7	GMT/DHW
DS 4	GMT/DHW	DS 8	GMT/DHW

The samples were tested in accordance with the test methods listed below and industry accepted modifications (National Sanitation Foundation Standard 54, Annex A) of those methods:

ASTM D 4437 (As modified by NSF Standard 54, Annex A), "Practice for Determining the Integrity of Field Seams Used in Joining Flexible Polymeric Sheet Geomembranes"

The sample material was submitted by MWM South, Inc.. GeoTesting Express of Texas, Inc. has no specific knowledge as to conditioning, origin, sampling procedure, special use of material, or purpose of material. The testing listed herein is based upon accepted industry practice as well as by the test method listed. GeoTesting Express of Texas, Inc. neither accepts nor makes claim as to final use and purpose of the material. Results presented apply only to the items tested.

07/10/01

ASTM D4437

Sample	Specimen Number	Weld lb / in.	PEEL				SHEAR			
			A % Peel	Failure Type	Weld lb / in.	B % Peel	Failure Type	lb / in.	% Peel	Failure Type
DS 1	1	124		FTB/SE1	106		FTB/SE1	169		FTB/SE1
	2	102		FTB/SE1	112		FTB/SE1	166		FTB/SE1
	3	99		FTB/SE1	106		FTB/SE1	169		FTB/SE1
	4	124		FTB/SE1	103		FTB/SE1	171		FTB/SE1
	5	111		FTB/SE1	103		FTB/SE1	173		FTB/SE1
	AVG	112			106			170		
DS 2	1	132		FTB/SE1	105		FTB/SE1	168		FTB/SE1
	2	121	30%	FTB/AD-BRK	68	50%	FTB/AD-BRK	167		FTB/SE1
	3	89	80%	FTB/AD-BRK	70	40%	FTB/AD-BRK	165		FTB/SE1
	4	99	70%	FTB/AD-BRK	106		FTB/SE1	169		FTB/SE1
	5	81	90%	FTB/AD-BRK	116	20%	FTB/AD-BRK	170		FTB/SE1
	AVG	104			93			168		
DS 3	1	113		FTB/SE1	108		FTB/SE1	163		FTB/SE1
	2	114		FTB/SE1	115		FTB/SE1	165		FTB/SE1
	3	119		FTB/SE1	109		FTB/SE1	166		FTB/SE1
	4	112		FTB/SE1	127		FTB/SE1	170		FTB/SE1
	5	104		FTB/SE1	125		FTB/SE1	166		FTB/SE1
	AVG	112			117			166		
DS 4	1	104		FTB/SE1	102		FTB/SE1	163		FTB/SE1
	2	105		FTB/SE1	102		FTB/SE1	152		FTB/SE1
	3	102		FTB/SE1	94		FTB/SE1	150		FTB/SE1
	4	98		FTB/SE1	101		FTB/SE1	158		FTB/SE1
	5	92		FTB/SE1	94		FTB/SE1	155		FTB/SE1
	AVG	100			99			156		
DS 5	1	110		FTB/SE1	101		FTB/SE1	149		FTB/SE1
	2	114		FTB/SE1	113		FTB/SE1	150		FTB/SE1
	3	106		FTB/SE1	115		FTB/SE1	148		FTB/SE1
	4	122		FTB/SE1	121		FTB/SE1	152		FTB/SE1
	5	108		FTB/SE1	114		FTB/SE1	148		FTB/SE1
	AVG	112			113			149		

MWM 3690.001 - PAGE 2

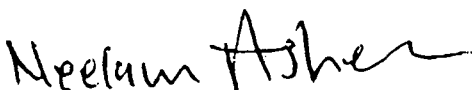
ASTM D4437

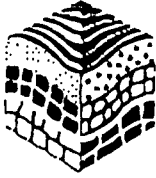
PEEL							SHEAR			
Sample	Specimen Number	Weld lb / in.	A		B		Failure Type	lb / in.	% Peel	Failure Type
			% Peel	Failure Type	lb / in.	% Peel				
DS 6	1	110		FTB/SE1	127		FTB/SE1	152		FTB/SE1
	2	120		FTB/SE1	126		FTB/SE1	147		FTB/SE1
	3	119		FTB/SE1	117		FTB/SE1	152		FTB/SE1
	4	117		FTB/SE1	128		FTB/SE1	150		FTB/SE1
	5	116		FTB/SE1	120		FTB/SE1	149		FTB/SE1
	AVG	116			124			150		
DS 7	1	120		FTB/SE1	115		FTB/SE1	148		FTB/SE1
	2	117		FTB/SE1	129		FTB/SE1	139		FTB/SE1
	3	118		FTB/SE1	123		FTB/SE1	145		FTB/SE1
	4	121		FTB/SE1	114		FTB/SE1	148		FTB/SE1
	5	126		FTB/SE1	126		FTB/SE1	148		FTB/SE1
	AVG	120			121			146		
DS 8	1	99		FTB/SE1	112		FTB/SE1	151		FTB/SE1
	2	92		FTB/SE1	106		FTB/SE1	142		FTB/SE1
	3	79		FTB/SE1	104		FTB/SE1	146		FTB/SE1
	4	116		FTB/SE1	115		FTB/SE1	150		FTB/SE1
	5	106		FTB/SE1	105		FTB/SE1	151		FTB/SE1
	AVG	98			108			148		

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If there are any questions, please contact us.

Respectfully,

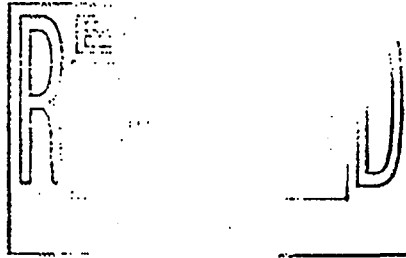

Neelam Asher
Laboratory Manager

**GeoTesting Express, Inc.**

2004 E. RANDOL MILL, SUITE 512
ARLINGTON, TX 76011
817-861-9090 (FAX) 817-861-5400

July 24, 2001

MWM South, Inc.
Attn: Jeff Wild
30940 Suneagle
Mt. Dora, FL 32757



RE: Client Job- Citrus County Landfill
GTX Project Number: MWM 3690.002

Dear Mr. Wild:

Ten (10) samples were received for testing on 07/24/01. The samples were identified as follows:

<u>SAMPLE I.D.</u>	<u>GTX COMMENTS</u>
DX 2 West Slope	GMT/EXT
DS 2A East Slope	GMT/DHW
DS 2B East Slope	GMT/DHW
DS 9	GMT/DHW
DS 10	GMT/DHW
DS 11	GMT/DHW
DS 12	GMT/DHW
DS 13	GMT/DHW
DS 14	GMT/DHW
DS 15	GMT/DHW

The samples were tested in accordance with the test methods listed below and industry accepted modifications (National Sanitation Foundation Standard 54, Annex A) of those methods:

ASTM D 4437 (As modified by NSF Standard 54, Annex A), "Practice for Determining the Integrity of Field Seams Used in Joining Flexible Polymeric Sheet Geomembranes"

The sample material was submitted by MWM South, Inc.. GeoTesting Express of Texas, Inc. has no specific knowledge as to conditioning, origin, sampling procedure, special use of material, or purpose of material. The testing listed herein is based upon accepted industry practice as well as by the test method listed. GeoTesting Express of Texas, Inc. neither accepts nor makes claim as to final use and purpose of the material. Results presented apply only to the items tested.

07/24/01

ASTM D4437

PEEL								SHEAR		
Sample	Specimen Number	Weld lb / in.	A % Peel	Failure Type	Weld lb / in.	B % Peel	Failure Type	lb / in.	% Peel	Failure Type
DX 2	1	97	100%	NON-FTB/AD			FTB/SE1	168		FTB/SE1
West Slope	2	106	100%	NON-FTB/AD			FTB/SE1	166		FTB/SE1
	3	98	90%	FTB/AD-BRK			FTB/SE1	162		FTB/SE1
	4	66	100%	NON-FTB/AD			FTB/SE1	167		FTB/SE1
	5	46	90%	FTB/AD-BRK	NO		FTB/SE1	167		FTB/SE1
	AVG	83			TEST			166		
DS 2A	1	132		FTB/SE1	127		FTB/SE1	167		FTB/SE1
East Slope	2	131		FTB/SE1	131		FTB/SE1	162		FTB/SE1
	3	123		FTB/SE1	130		FTB/SE1	170		FTB/SE1
	4	137		FTB/SE1	122		FTB/SE1	171		FTB/SE1
	5	130		FTB/SE1	130		FTB/SE1	168		FTB/SE1
	AVG	131			128			168		
DS 2B	1	130		FTB/SE1	126		FTB/SE1	153		FTB/SE1
East Slope	2	127		FTB/SE1	124		FTB/SE1	152		FTB/SE1
	3	129		FTB/SE1	132		FTB/SE1	150		FTB/SE1
	4	134		FTB/SE1	120		FTB/SE1	162		FTB/SE1
	5	133		FTB/SE1	124		FTB/SE1	161		FTB/SE1
	AVG	131			125			156		
DS 9	1	105		FTB/SE1	110		FTB/SE1	168		FTB/SE1
	2	110		FTB/SE1	118		FTB/SE1	165		FTB/SE1
	3	105		FTB/SE1	114		FTB/SE1	165		FTB/SE1
	4	108		FTB/SE1	114		FTB/SE1	165		FTB/SE1
	5	101		FTB/SE1	111		FTB/SE1	169		FTB/SE1
	AVG	106			113			166		
DS 10	1	118		FTB/SE1	108		FTB/SE1	169		FTB/SE1
	2	118		FTB/SE1	110		FTB/SE1	158		FTB/SE1
	3	118		FTB/SE1	110		FTB/SE1	158		FTB/SE1
	4	116		FTB/SE1	106		FTB/SE1	161		FTB/SE1
	5	116		FTB/SE1	113		FTB/SE1	158		FTB/SE1
	AVG	117			109			161		

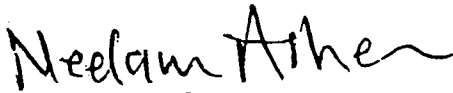
ASTM D4437

Sample	Specimen Number	PEEL			SHEAR		
		Weld lb / in.	A % Peel	Failure Type	Weld lb / in.	B % Peel	Failure Type
DS 11	1	115		FTB/SE1	116		FTB/SE1
	2	135		FTB/SE1	116		FTB/SE1
	3	123		FTB/SE1	126		FTB/SE1
	4	119		FTB/SE1	134		FTB/SE1
	5	118		FTB/SE1	116		FTB/SE1
	AVG	122			122		168
DS 12	1	120		FTB/SE1	114		FTB/SE1
	2	118		FTB/SE1	112		FTB/SE1
	3	120		FTB/SE1	113		FTB/SE1
	4	114		FTB/SE1	110		FTB/SE1
	5	116		FTB/SE1	116		FTB/SE1
	AVG	118			113		175
DS 13	1	120		FTB/SE1	113		FTB/SE1
	2	116		FTB/SE1	126		FTB/SE1
	3	120		FTB/SE1	114		FTB/SE1
	4	119		FTB/SE1	123		FTB/SE1
	5	119		FTB/SE1	128		FTB/SE1
	AVG	119			121		170
DS 14	1	115		FTB/SE1	119		FTB/SE1
	2	111		FTB/SE1	113		FTB/SE1
	3	116		FTB/SE1	112		FTB/SE1
	4	115		FTB/SE1	104		FTB/SE1
	5	121		FTB/SE1	104		FTB/SE1
	AVG	116			110		149
DS 15	1	82		FTB/SE1	105		FTB/SE1
	2	114		FTB/SE1	109		FTB/SE1
	3	116		FTB/SE1	102		FTB/SE1
	4	101		FTB/SE1	116		FTB/SE1
	5	115		FTB/SE1	103		FTB/SE1
	AVG	106			107		156

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If there are any questions, please contact us.

Respectfully,



Neelam Asher
Laboratory Manager

PROJECT: 60' Citrus CO Land filled

SUPERVISOR: Shofford Cosley PAGE: _____

East Slope 60m il HDPE textured

[illegible]

PROJECT: Citrus Co Landfill
SUPERVISOR: Stafford Cosby PAGE: _____
West Slope 60 mil HGF textured line

[illegible]

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stefford Cooley
 Project Citrus CO F10
Liner Repair
 → MWM SOUTH JOB No. 10563

Day MDM Date 6/18/01
 Weather: Sunny Cloudy Rain Snow
 Temperature: High _____ Low _____
 Time: Start _____ End _____

MWM Employee	Hours	Labor Service Names	Hours
1 Samuel Soria	8.5	1	8 ✓
2 Ramon Rodriguez	R.R. - 560 6494	2 (D.L.) - 5	8 ✓
3 Ramon de la Cruz	PE 581-07-3408	3 m-d7	8
4 Cesar Garcia	CE - 631-51-7884	4 D-5.45	8
5 GERMAN MUJICA	E.M.	5	8 ✓
6 C.B. Taylor	8	6	
7 B. Williams	8	7	
8 Tommy Penley	8	8	
Total Hours		Total Hours	

Description of work.

filling Sand Bags moving Liner, Soil was not Ready Because of the Liner test, moving Equipment to Spruce Creek

Equipment used and rented.

455 SD Truck Loader, Posi Track, 6x4 SD Cater

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stuffed Cooley
 Project Liner Repair
Citrus Co Landfilled
 MWM SOUTH JOB No. 10563

Day SUN Date 7/8/01
 Weather: Sunny ☒ Cloudy ☐ Rain ☐ Snow ☐
 Temperature: High Low 73°
 Time: Start 7pm End 5:30

MWM Employee			Labor Service Names		
		Hours			Hours
1	C.B. Taylor	10	1	Bruce Seckish	9
2	B. Williams	10	2	Jim Bourne	9
3	Maurice Ahrens	10	3		
4	Antonio River	10	4		
5	Octaviano S. Cruz	10	5		
6			6		
7			7		
8			8		
Total Hours			Total Hours		

Description of work: East Slope, 60 mil HDPE textured liner
Air Testing DS, testing, Repairs, Welded 3 Seams

Equipment used and rented: Dasintech, 455 SD Tractor Loader, 6x4 SAG
6500 Honda Gen, 5000, Honda Ben Hot Shoe Welder, Repair
Welder, Air testing Equipment Small Hand Tools

ADDITIONAL INFORMATION

West Slope

24 hours 264⁰⁰ 0140

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stefford Cosby
Project Citrus Co Landfill

Day mon Date 7/9/01
Weather: Sunny Cloudy Rain Am Snow
Temperature: High _____ Low _____
Time: Start 7:00am End 5:30pm

MWM SOUTH JOB No. 10563

MWM Employee	Hours	Labor Service Names	Hours
1 C.B. Taylor	10	1 Tim Bourn	4 1/2
2 Margie Abren	10	2 Bruce Tschick	4 1/2
3 Antonio Rivas	10	3 Shawn Henson	4 1/2
4 Octaviano Strong	10	4	
5 B. Williams	10	5	
6		6	
7		7	
8		8	
Total Hours		Total Hours	

Description of work. East slope 60mil HDPE liner, AS Testing
Patching, Clean up Extension welding

Equipment used and rented. Repair welder, Small Hand tools, 85Kw
Gen, 6500 Honda, 5000 Honda Gen, 6X4 JD Gator,
Pasi, Truck, 455 JD Truck Loader, Pasi Truck.

ADDITIONAL INFORMATION

Chuck @ Mission

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

Stafford Cooley
Citrus Co Landfill

Project

Day Tue

Date 7/10/01

Weather:

Sunny

Cloudy

☒ Rain

Snow

Temperature:

High

Low

Time:

Start

7 AM

End 12 PM

MWM SOUTH JOB No. 10563

MWM Employee		Hours	Labor Service Names		Hours
1	<u>C.B. Taylor</u>	<u>4</u>	1	<u>Jim Benn</u>	<u>4</u>
2	<u>B. Williams</u>	<u>4</u>	2	<u>Shawn Hester</u>	<u>4</u>
3	<u>Maurice Adams</u>	<u>4</u>	3	<u>Scott Balcy</u>	<u>4</u>
4	<u>Antonia River</u>	<u>4</u>	4		
5	<u>Octaviano Sney</u>	<u>4</u>	5		
6			6		
7			7		
8			8		
Total Hours			Total Hours		

Description of work.

East Slope bermil HDPE textured liner, D.S. patching
and repairs - Pipe Boot, Concrete Extension, welding

Equipment used and rented.

455 JD Track loader, Post truck, 6x4 JD Bob
Small Hand tools,

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

Stafford Coshy
Citrus Co Landfill

Project

Day

Thurs Date 7/12/01

Weather:

Sunny Cloudy Rain Snow

Temperature:

High Low

Time:

Start 7:00am End 5:30

MWM SOUTH JOB No. 10563

MWM Employee		Hours	Labor Service Names		Hours
1	<u>C.B. Taylor</u>	<u>10</u>	1	<u>John Koche</u>	<u>8</u>
2	<u>B. Williams</u>	<u>10</u>	2	<u>Nick Rando</u>	<u>8</u>
3	<u>Octaviano S. Jara</u>	<u>10</u>	3	<u>Tom Neshach</u>	<u>8</u>
4	<u>Antonio Rinos</u>	<u>10</u>	4		
5			5		
6			6		
7			7		
8			8		
Total Hours			Total Hours		

Description of work.

West slope bonill HDPE textured liner, we
Installed 9 panels of liner and welded them,

Equipment used and rented.

455 SDT Rock loader / Posi Truck, 8.5KW Gen
6500 Honda Gen, 5000 Honda Gen, Hot Shoe Welder, Repair
Welder, Small Hand Tools, Transmitter

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stafford Cosby
Project Citrus Co. Landfill

Day FRI Date 7/13/01
Weather: Sunny ☒ Cloudy ☒ Rain ☐ Snow ☐
Temperature: High Low
Time: Start 7:00 AM End 12:00 PM

MWM SOUTH JOB No. 16563

MWM Employee		Hours	Labor Service Names		Hours
1	C.B. Taylor	5	1	John Perry	4
2	B. Williams	5	2	Sen Lee	4
3	Antonio River	5	3	Allen Langley	4
4	Octaviano Serna	5	4		
5	Leonel Suarez	5	5		
6			6		
7			7		
8			8		
Total Hours			Total Hours		

Description of work. 60mil HDPE textured liner, Backfilling Anchor Trench - East side

Equipment used and rented. Posi-Truck, 455 Truck Loader, 6x4 50 Galon 6500 Honda Gen 8.5 KW Gen 5000 Honda Gen, Hot Shoe welder, Repair welder, small hand tools

ADDITIONAL INFORMATION

West Slope, was not able to Deploy any liner due to rain repairs

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

Stafford Coaling & Chuck

Day MONDate 7/16/01

Project

Citrus Co Landfill

Weather:

Sunny Cloudy Rain Snow

Temperature:

High _____ Low _____

Time:

Start 7:15 AM End 5:30

MWM SOUTH JOB No.

10563

MWM Employee			Labor Service Names		
		Hours			Hours
1	C.B. Taylor	10 ✓	1	RIGEL VILLEGAS	10 ✓
2	B. Williams	10 ✓	2		
3	Antonio R. Ruiz	10 ✓	3		
4	Echevarria Storey	10 ✓	4		
5	Albert Gonzalez	10 ✓	5		
6	Jimmy Moten	10 ✓	6		
7	Tortuhato Oregan	10 ✓	7		
8	LEONEL SUAREZ	10 ✓	8		
Total Hours <u>Diymar</u>			Total Hours		

Description of work

6 mil HDPE Textured Liner west slope, we installed 7 panel of Liner and welded them

Equipment used and rented.

455 5D Tractor Loader, Pair. Tractor, 1-8.5 KW Gen, 1-6.5 KW Honda Gen - 1-5000 Honda, Hot shoe welder, Repair weld Small Hand tools

ADDITIONAL INFORMATION

Backfilling anchor trench East slope 2 Calores



DAILY REPORT FORM

Supervisor Chuck JohnsonDay TUES Date 7/17/01Project CITRUS LAND FILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. 10563

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	MURRICK A	4 ✓	1		
2	ANTONIO	4 ✓	2		
3	OCTAVI	4 ✓	3		
4	LEO	4 ✓	4		
5	FIDEL V	4 ✓	5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work

~~BRICK~~ MAKE PATIENS OVER DS. on
 EAST SLOPE + BACK FILL TRUCK

Equipment Utilized and Rented



DAILY REPORT FORM

Supervisor CILVOK T. J. J. J.

Day WED Date 7/18/01

Project CORRUS LANDFILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. 10563

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	MARKE A.	5 ✓	1		
2	ANTONIO R	5 ✓	2		
3	BETAV	5 ✓	3		
4	LBO	5 ✓	4		
5	BOB	5	5		
6	BOB	5	6		
7	CB	5 ✓	7		
8	BYRON	5 ✓	8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work FINISH BACK HILL TRUCK ON
EAST SLOPE + COMPACT

Equipment Utilized and Rented



DAILY REPORT FORM

Supervisor Chuck JohnsonDay FRI Date 7/20/01Project CIRCUIS LAND RILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. 10563

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	MAVILLE A	2 2	1		
2	LAO	2 2	2		
3	CB	2 2	3		
4	BYRON	2 2	4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work Fix CARON + POSSY TRACK
(RAIN OUT) GRASS 455

Equipment Utilized and Rented

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

Stefford Cosley

Project

Citrus Co Landfill

Day

Sat

Date

7/21/01

Weather:

Sunny

Cloudy

Rain

Snow

Temperature:

High

Low

Time:

Start

7:AM

End

4:30MWM SOUTH JOB No. 16563

	MWM Employee	Hours		Labor Service Names	Hours
1	B. Williams	9 ✓	1		
2	Antonio River	7 ✓	2		
3	Octaviano Saver	7 ✓	3		
4	Miguel Ochoa	7 ✓	4		
5	Reonel	7	5		
6			6		
7			7		
8			8		
	Total Hours			Total Hours	

Description of work.

west slope 60 mil HDPE textured liner
air testing, patching,

Equipment used and rented.

6500 Honda Gen, 5000 Honda Gen, 85K Gen
posiTrack, 455 50 Tractor loader, 6x4 50 Galon

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stafford Cesby
Project Citrus Colandrell

Day Tue Date 7/31/01

Weather: Sunny Cloudy Rain Snow

Temperature: High Low

Time: Start 7:00 End 4:30p

MWM SOUTH JOB No. 10563

MWM Employee			Hours	Labor Service Names			Hours
1	C. B. Taylor	8 1/2	✓	1			
2	B. Williams	8 1/2	✓	2			
3	Leonel Soarez	8 1/2	✓	3			
4	Octaviano Aguiar	8 1/2	✓	4			
5				5			
6				6			
7				7			
8				8			
Total Hours				Total Hours			

Description of work: Backfilling Anchor Trench on the West Side and the East Side

Equipment used and rented: 302.5 Mini Excavator
Ring Bent

ADDITIONAL INFORMATION



DAILY REPORT FORM

Supervisor Chuck Johnson

Day TUES Date 10-2-01

Project CITRUS COUNTY LAND FILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. 10575

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	<u>MAURER</u>	<u>5</u>	1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work	<u>WORK ON SAVING MACHINE FOR</u>
	<u>CITRUS COUNTY LAND FILL</u>
Equipment Utilized and Rented	



DAILY REPORT FORM

Supervisor Chuck Johnson

Day WED. Date 10-3-01

Project CITRUS COUNTY LANDFILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. _____

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	MAURICE A	9.5	1		
2	TOMMY P	9.5	2		
3	ANTONIO R	9.5	3		
4	CECILIANO	9.5	4		
5	LEO	9.5	5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
Total Hours			Total Hours		

Description of Work	Dig HANCOX TRENCH & SET CP.
	PULL OUT 4 PAVES, SEW & TAPB
Equipment Utilized and Rented	



DAILY REPORT FORM

Supervisor Chuck Johnson

Day THUR Date 10-4-01

Project CITRUS COUNTY LANDFILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. _____

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	MAURICE A	10	1		
2	TOMMY P	10	2		
3	ANTHONY R	10	3		
4	OCTAVIANO	10	4		
5	LEO	10	5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work	<u>PULL OUT 8 PANELS SET UP</u>
<u>4 TAPES</u>	
Equipment Utilized and Rented	



DAILY REPORT FORM

Supervisor CHUCK JOHNSON

Day FRI Date 10-5-01

Project CITRUS COUNTY LANDFILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. _____

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	MAURICE	7	1		4
2	OCTAVIANO	7	2		4
3	LEO	7	3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work	PULL OUT 3 PANELS NEW + TAPE
	PULL IN ANCHOR CABLE & BAG
Equipment Utilized and Rented	



DAILY REPORT FORM

Supervisor Chuck Johnson

Day SAT Date 10-6-01

Project CITRUS COUNTY LANDFILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. _____

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	TOMMY P	7	1		
2	ANTONIO R.	7	2		
3	LEO	7	3		
4	OCTAVIANO	7	4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work	ALL OUT 2 PANELS STAY + TAPE
	Fill in ANCHOR TRENCH + BAG
	High winds HAD A PANEL BLOW OUT
Equipment Utilized and Rented	



DAILY REPORT FORM

Supervisor CHUCK JOHNSON

Day MON Date 10/8/01

Project CITRUS COUNTY LANDFILL

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

MWM SOUTH Job No. _____

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	MAURICE A	10	1		
2	THOMAS P	10	2		
3	LEWIS E	10	3		
4	OCTAVIANO S	10	4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work PULL OUT 5 PANELS SEW + TAPPE

BURR PULL TRENCH

Equipment Utilized and Rented

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Chuck Johnson
 Project CITRUS COUNTY LAND FILL

Day WED Date 10/10/01

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

Time: Start _____ End _____

MWM SOUTH Job No. 10515 10563

	MWM Employee	Hours		Labor Service/Names	Hours
1	MAURICE A	5	1		
2	LRO	5	2		
3	OCTAVIANO	5	3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours			Total Hours	

Description of Work DIG TRENCH DOWN NORTH SIDE & ADD
ROCK OF MATERIAL ON TO PIT TRENCH THEN
BACK FILL

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Chuck Johnson
 Project CITRUS COUNTY LANDFILL

Day MON Date 10/8/01

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor Stifford Cosby
Project Citrus Co. Landfill

Day Sun Date 11/29/01

Weather: Sunny Cloudy Rain

Temperature: High Low

Time: Start 8:00 End 4:30

→ MWM SOUTH Job No. _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	C.B. Taylor	8	1		
2	R. Williams	8	2		
3	T. Penley	8	3		
4	Leonel Sore	8	4		
5	Oscarino Ofiura	8	5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours	40		Total Hours	

Description of Work Rain Cover Tape Repair Seams 3 m Blue
East Slope

Equipment Utilized and Rented

Description of Work	Rain Cover Tape Repair Seams 3m Glue
East Slope	
Equipment Utilized and Rented	



DAILY REPORT FORM

Supervisor Chuck Johnson

Day Mon Date 11/24/01

Project CITRUS COUNTY LAND FILL
COVER

Weather: Sunny Cloudy Rain

Temperature: High _____ Low _____

→ MWM SOUTH Job No. _____

Time: Start _____ End _____

	MWM Employee	Hours		Labor Service/Names	Hours
1	<u>MAURICE</u>	<u>6</u>	1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours	<u>6</u>		Total Hours	

Description of Work GLUE DOWN TAPE ON SEAMS + CLEAN

UP

Equipment Utilized and Rented

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

MAURICE AHRENS

Project

CITRUS COUNTY LANDFILL

MWM SOUTH JOB No.

10563

Day Monday Date 1-21-02

Weather: Sunny Cloudy Rain Snow

Temperature: High 75 Low 62

Time: Start 7:00a End 5:30p

MWM Employee	Hours	Labor Service Names	Hours
1 PHILIP FARMER	10	1	
2 GARY COVERT	10	2	
3 DAVID HARDMAN	10	3	
4 KYLE HUDSON	10	4	
5 JERRY WELCH	10	5	
6		6	
7		7	
8		8	
Total Hours	50	Total Hours	

Description of work. FOUND RAIN COAT PULLED BACK FROM WIND ON SUNDAY. RE-DIG 60' OF ANCHOR TRENCH, PULL RAIN COAT BACK INTO PLACE AND RE-COVER TRENCH. PULL THREE PANELS OF RAIN COAT, SEW THE SEAM TOGETHER, TAPE BOTTOM & TOP OF EACH SEAM. THE WIND STARTED TO BLOW EAST. STOPPED PULLING TO FILL SAND BAGS AND SPENT AFTERNOON RECOVERING BLOWN RAIN COAT.

Equipment used and rented. POSI-TRAC, 6500 GENERATOR, SEWING MACHINE, 2 SPOOLS THREAD, RAIN COAT TAPE

ADDITIONAL INFORMATION



Day TUESDAY Date 1-22-02

Weather: Sunny ☒ Cloudy ☐ Rain ☐ Snow ☐

Time: Start 7:00 End 5:30

	MWM Employee	Hours		Labor Service Names	Hours
1	PHILIP FARMER	10	1		
2	GARY COVERT	10	2		
3	DAVID HARDMAN	10	3		
4	KYLE HUDSON	10	4		
5	BRYAN SOWERS	10	5		
6			6		
7			7		
8			8		
	Total Hours	50		Total Hours	

Description of work. PULL 2 PANELS OF RAIN COAT. WIND STARTED UP SO WE STARTED MAKING ANOTHER 50 SAND BAGS. REPULL LOOSE RAINCOAT AND BAG. CUT AIR POCKET OUT OF RAINCOAT, RE-TIGHTEN RAIN COAT AND FILL IN ANCHOR TRENCH. SEW CUT IN RAIN COAT.

Equipment used and rented. POSI-TRAC, 6500 GENERATOR, UNION SPECIAL SEWING MACHINE, 2 SPOOLS THREAD, TAPE

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor MAURICE AHRENS

Project CITRUS COUNTY LANDFILL

→ MWM SOUTH JOB No. 10563

Day WED. Date 1-23-02

Weather: Sunny Cloudy Rain Snow

Temperature: High 80 Low 67

Time: Start 7:00A End 5:30P

MWM Employee		Hours	Labor Service Names		Hours
1	PHILIP FARMER	10	1		
2	GARY COVERT	10	2		
3	DAVID HARMAN	10	3		
4	KYLE HUDSON	10	4		
5	BRYAN SOWERS	10	5		
6	MIKE LEE	.5	6		
7			7		
8			8		
Total Hours		55	Total Hours		

Description of work. PULL 7 PANELS OF RAIN COAT. SEW SEAMS, TAPE TOPS & BOTTOMS.

Equipment used and rented. POSI-TRAC, 6500 GENERATOR, UNION SPECIAL SEWING MACHINE
2 SPOOLS THREAD, TAPE

ADDITIONAL INFORMATION

DAILY REPORT FORM

Supervisor MAURICE AHRENS

Project CITRUS COUNTY LANDFILL

Day THURSDAY Date 1-24-02

Weather: ☒ Sunny ☐ Cloudy ☐ Rain ☐ Snow

Temperature: High 84 Low 69

Time: Start 7:00A End 5:30P

→ MWM SOUTH JOB No. 10563

MWM Employee		Hours	Labor Service Names		Hours
1	PHILIP FARMER	10	1		
2	GARY COVERT	10	2		
3	KYLE HUDSON	10	3		
4	BRYAN SOWERS	10	4		
5	JAMES ROACH	10	5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
Total Hours		50	Total Hours		

Description of work. PULL LAST 5 PANELS OF RAIN COAT. SEW SEAMS, TAPE TOP & BOTTOM OF SEAMS. TAPE RAN OUT AND ONLY TAPERED BOTTOM OF 6 SEAMS. REPAIR 5 RIPS IN 60 MIL SMOOTH HDPE ON WEST SHOULDER OF LANDFILL. ALSO MULTIPLE PUNCTURE SPOTS. 30 TO 40 SPOTS APPROX. FILLED IN ALL ANCHOR TRENCH AROUND RAIN COAT AND SAND BAG END AND AROUND PIPES. I NEED 2600' TAPE

Equipment used and rented. PESI-TRAC, 6500 GENERATOR, UNION SPECIAL SEWING MACH 2 SPOOLS THREAD, TAPE. MINI-EXTRUDER, 4 MM WELDING ROD (1/8" ROD) GRINDER, HEAT GUN.

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor MAURICE AHRENS

Day FRIDAY Date 2-8-02

Project CITRUS COUNTY LANDFILL

Weather: Sunny Cloudy Rain Snow

RAIN COAT TAPING

Temperature: High 76 Low 45

→ MWM SOUTH JOB No. 10563

Time: Start 7:30A End 5:30P

	MWM Employee	Hours		Labor Service Names	Hours
1	PHILIP FARMER	9.5 ✓	1		
2	DAVID HARDMAN	9.5 ✓	2		
3	BRYAN SOWERS	9.5 ✓	3		
4	KYLE HUDSON	9.5 ✓	4		
5	JAMES ROACH	9.5 ✓	5		
6			6		
7			7		
8			8		
	Total Hours	47.5		Total Hours	

Description of work. CLEAN DIRT AND WATER FROM ~~SE~~ SEWN JOINTS IN RAIN COAT AND WIPE DRY. CLEAN RAIN COAT AROUND VENT PIPES AND COVER WITH RAIN COAT MATERIAL AND TAPE ALL JOINTS TIGHT. TAPE CLEANED SEWN SEAMS WITH NEW TAPE. PATCH HOLES IN RAIN COAT WITH RAIN COAT MATERIAL AND TAPE. MOVE TIRES OUT TO LOOSE RAIN COAT ENDS IN BOTTOM SWALE TRENCH.

Equipment used and rented. TAPE, BRUSHES, RAGS, 5000 HONDA GENERATOR, UNION SPECIAL SEWING MACHINE.

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor MAURICE AHRENS
 Project CITRUS COUNTY LANDFILL
RETAPING SEAMS & PUNCH-OUT
 MWM SOUTH JOB No. 10563

Day SATURDAY Date 2-9-02
 Weather: Sunny Cloudy Rain Snow
 Temperature: High 80 Low 65
 Time: Start 9:00A End 5:30

MWM Employee	Hours	Labor Service Names	Hours
1 PHILIP FARMER	8 ✓	1	
2 BRYAN SOWERS	8 ✓	2	
3 KYLE HUDSON	8 ✓	3	
4		4	
5		5	
6		6	
7		7	
8		8	
Total Hours	24	Total Hours	

Description of work. CLEAN SEAMS IN RAIN COAT & DRY. RE-TAPE FROM
TOP TO BOTTOM OF LANDFILL SLOPE. BOOT VENT PIPES ON WEST &
EAST SLOPES. REPAIR HOLES WITH RAIN COAT MATERIAL & TAPE.

Equipment used and rented.

ADDITIONAL INFORMATION

MWM SOUTH Inc

DAILY REPORT FORM

Supervisor

MAURICE AHRENS

Project

CITRUS COUNTY LANDFILL
AND MAKE POWER CORDS

MWM SOUTH JOB No.

10503Day TUESDAY Date 2-12-02Weather: ☒ Sunny ☐ Cloudy ☐ Rain ☐ SnowTemperature: High 80 Low 67Time: Start 8:30A End 4:00P

MWM Employee	Hours	Labor Service Names	Hours
1 PHILIP FARMER	6	1	
2 GARY COVERT	6	2	
3 DAVID HARDMAN	6	3	
4 BRYAN COWERS	6	4	
5		5	
6		6	
7		7	
8		8	
Total Hours	24	Total Hours	

Description of work.

CLEAN SEAM LINE AND DRY WITH RAGS. TAPE SEWN SEAM LINE. PUT IN VENT AT APEX OF SLOPE AND COVER WITH RAIN COAT MATERIAL. TAPE ON THREE SIDES. COME BACK TO OFFICE AND FINISH UP DAY MAKING MORE POWER CORDS OUT OF ROLL OF 10 GA. WIRE.

Equipment used and rented.

ADDITIONAL INFORMATION



DAILY REPORT FORM

Supervisor MAURICE AHRENS

Project CITRUS COUNTY LANDFILL

→ MWM SOUTH Job No. 10563

Day WED. Date 3-13-02

Weather: Sunny WINDY Cloudy Rain

Temperature: High 75 Low 57

Time: Start 7:00A End 5:30P

	MWM Employee	Hours		Labor Service/Names	Hours
1	PHILIP FARMER	10	1		
2	SAM CARUSO	10	2		
3	PAUL EDENS	10	3		
4	SYLVESTER	10	4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours	40		Total Hours	

Description of Work MOVE TIRES & SAND BAGS OFF ^{RAIN COAT} BOTTOM OF SLOPE. RESEW & SEW IN PATCH WHERE SEAM SPLIT. PULL RAIN COAT BACK AND TRENCH 280', PUT BOTTOM OF RAIN COAT IN TRENCH & BACK FILL. REPEAT ABOVE FOR 200' @ TOP OF SLOPE. AT NORTHWEST END REPEAT ABOVE ON 1 TO 1 SLOPE FOR 200'.

Equipment Utilized and Rented TD 70 BACKHOE, 6500 HONDA GENERATOR, F350, UNION SPECIAL SEWING MACHINE, 2 HALF SPOOLS THREAD, SHOVELS & RAKES.



DAILY REPORT FORM

Supervisor MAURICE

Project CITRUS COUNTY LANDFILL

→ MWM SOUTH Job No. 10563

Day THURSDAY Date 3-14-02

Weather: Sunny Cloudy Rain

Temperature: High 80 Low 52

Time: Start 7:00 End 5:30

	MWM Employee	Hours		Labor Service/Names	Hours
1	PHILIP FARMER	10	1		
2	PAUL EOENS	10	2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
	Total Hours	20		Total Hours	

Description of Work FINISH TRENCING NE SLOPE, SEW ON 5' OF ADDITIONAL RAINCOAT MATERIAL. PULL MATERIAL IN TRENCH AND BACKFILL ALL. MOVE TO NW TRENCH AND ADD ADDITIONAL DIRT TO FILL TO TOP OF TRENCH. MOVE ENOUGH SAND BAGS TO COMPLETELY COVER OVER ALL PIPE BOOTS. DO 4 PATCHES OFF PUNCH LIST.

Equipment Utilized and Rented TD 70 BACKHOE FROM NEFF RENTAL, 6500 HONDA GENERATOR, UNION SPECIAL SEWING MACHINE, SHOVELS & RAKES, F-350.

BEST AVAILABLE COPY

Diagram illustrating the cross-section of a landfill cell, showing the layers and components:

- RAIN COVER**: The top layer of the landfill cell.
- SOLID WASTE**: The waste material being landfilled.
- 60-MIL TEXTURED HDPE LINER**: The flexible liner separating the waste from the subbase.
- 24' COVER SOIL**: The soil layer covering the HDPE liner.
- COMPACTED SUBBASE**: The base layer supporting the landfill cell.
- SEE DETAIL 1**: Callout for the top left corner detail.
- SEE DETAIL 2**: Callout for the bottom right corner detail.
- SEE DETAIL 3**: Callout for the right side detail.
- 50'**: Dimension indicating the width of the landfill cell.

24" COVER SOIL

RAIN COVER

8'

4'

2'

2'

1'

60-MIL TEXTURED HDPE LINER

60-MIL TEXTURED
HDPE LINER

4.47'

3'

2

1

60-MIL TEXTURED
HDPE LINER

A cross-sectional diagram of a fillet extrusion bead. Two horizontal lines represent the 'LINERS'. A shaded, curved area between them represents the 'FILLET EXTRUSION BEAD'. A dimension line above the bead indicates a width of '3" (MIN)'. A note with an arrow pointing to the bead reads: 'FILLET EXTRUSION BEAD (LIGHTLY GRIND SURFACES TO REMOVE OXIDATION)'. The number '913' is written below the diagram.

The diagram illustrates the required overlap for a double-lined trench. It shows two layers of liner, labeled "LINERS", joined by two "FUSION WELD AREA"s. The distance between the start of the two welds is indicated as "4" (MIN.)". The top layer of the liner is shown with a "SQUEEZE OUT" at the end. An "AIR CHANNEL" is shown between the two liners. The diagram is labeled "FIG. 10. REQUIRED OVERLAP FOR DOUBLE LINED TRENCH".

The image contains two cross-section diagrams of a dam, labeled 'WEST SLOPE' and 'EAST SLOPE'.

WEST SLOPE: This diagram shows a vertical cross-section of the dam. The left side is labeled 'COVER' and 'TOP OF BERM'. The right side is labeled 'LINER LIMITS'. The cross-section is divided into 18 numbered layers (1 to 18). The layers are labeled with 'DS' followed by a number (DS-1 to DS-18). The top of the dam is labeled 'WEST SLOPE'. The bottom of the dam is labeled 'LINER LIMITS'. The diagram shows a curved profile with various dimensions and labels such as 'DS-1' through 'DS-18'.

EAST SLOPE: This diagram shows a vertical cross-section of the dam. The left side is labeled 'TOP OF BERM' and 'LINER LIMITS'. The right side is labeled 'TOP OF BERM'. The cross-section is divided into 18 numbered layers (1 to 18). The layers are labeled with 'DS' followed by a number (DS-1 to DS-18). The top of the dam is labeled 'EAST SLOPE'. The bottom of the dam is labeled 'LINER LIMITS'. The diagram shows a curved profile with various dimensions and labels such as 'DS-1' through 'DS-18'.

No.	LENGTH	AS BUILT
1	207.0	
2	211.0	
3	214.5	
4	223.0	
5	224.0	
6	225.0	
7	232.0	
8	225.0	
9	226.5	
10	216.0	
11	208.5	
12	207.0	
13	204.5	
14	202.5	
15	200.0	
16	197.0	
17	191.0	
18	181.0	
19	162.0	
20	143.0	
21	127.5	
22	117.5	
23	106.5	

No.	LENGTH	AS BUILT
1	129.5	103
2	111.0	90
3	99.5	80
4	91.0	79
5	86.0	76
6	81.5	74
7	78.0	71
8	76.5	68
9	75.0	67
10	73.5	62
11	71.5	59
12	70.0	59
13	68.5	56
14	67.0	53
15	65.5	54
16	58.5	21
17	48.5	8

No.	LENGTH	AS BUILT
1	161.0	129'
2	150.0	123'
3	149.0	121'
4	146.0	117
5	140.0	111
6	132.0	106
7	123.5	101
8	117.5	94
9	113.0	90
10	108.5	83
11	104.0	79
12	100.0	67
13	95.5	65
14	91.0	57
15	86.5	49
16	82.0	39
17	72.0	17
18	55.0	8

REVISIONS			LINER REPAIR
ITEM	DATE	BY	CITRUS CO., FL
			MWM SOUTH Inc ENGINEERING, DESIGN & CONSTRUCTION MEMBRANE LINING SYSTEMS • RETAINING WALLS • WATER FEATURES 3040 SUNBEAM DR. STE 100 MIAMI, FL 33257 PH. (305) 383-7148 FAX. (305) 385-0840

SCALE HOR: AS VER: NOTED	DRAWN BY B.S.
DATE 5-24-01	SHEET NO. 1 of 1
DWG FILE # CITRUS CO.	

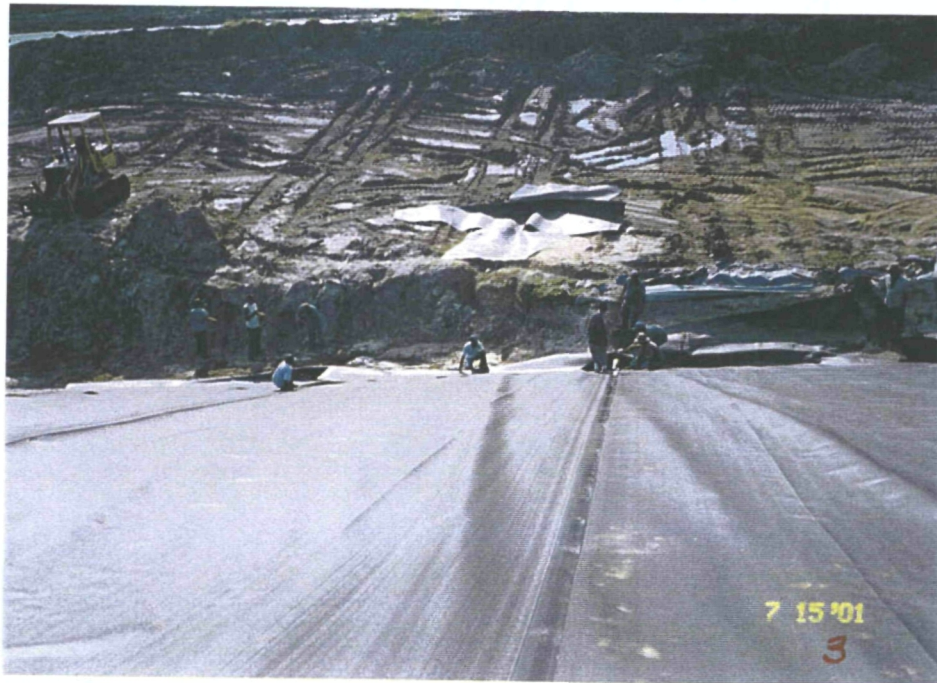
APPENDIX E

PHOTOGRAPHIC REPORTING

Photo Log #2
 Citrus County Liner Remediation
 03860-008-01-0100

PHOTO	DESCRIPTION
1	Panel No. 8 on west slope which has been wind blown. The Contractor's superintendent decided the liner is okay and has decided to proceed without replacing the liner.
2	Rain damage subgrade at toe of western slope. MWM plans to fold the liner back after deployment to fix the subgrade.
3	Illustrates MWM folding the liner back and fixing the subgrade at the aforementioned location.
4	7/23/01 - Right-hand side with telephone pole common to both photos 4 and 5. Progress photos showing installed and welded textured 60-mil HDPE liner with MWM extrusion welding patches over the destructive sample areas on the west slope.
5	Left-hand side - same as above.
6	7/25/01 - MWM installing the cap strip over destructive samples 2A and 2B, test locations on the eastern slope.

(Photos 7-13 & 18-36 Martel West Landfill 13150-041-01) - INDEX
 (Photos 14-17 Polk County EGC 16500-009-01)





2



5



Photo Log #3
Citrus County Geomembrane Remediation
03860-008-01-0100

PHOTO	DESCRIPTION
(Photos 1-15 and 22-25 were of Martel West Log #4 13150-041-01)	
16	10/4/01 Taken facing South - North end of the east slope showing mulch used as a subgrade under the rain cover
17	Anchor trench for the rain cover at the top of the East slope. Dimensions approx. 6" wide x 12" deep. Typical
18	Application of the seaming tape over the field sewn seam in the rain cover
19	Illustrates the field sewing of the field seams in the rain cover on the East slope. Typical
20	Taken facing SW - Citrus Co. covering the western slope the HDPE liner with clean clay fill as a prelude to installing the rain cover approx. 30 days from now
21	Rain cover installation on the eastern slope. Upon completion, the rain cover is to extend to the grass area on the northern end (left side of photograph)



20



16



21



17



18



19

Photo Log #4

Citrus County Geomembrane Remediation

03860-008-01-0100

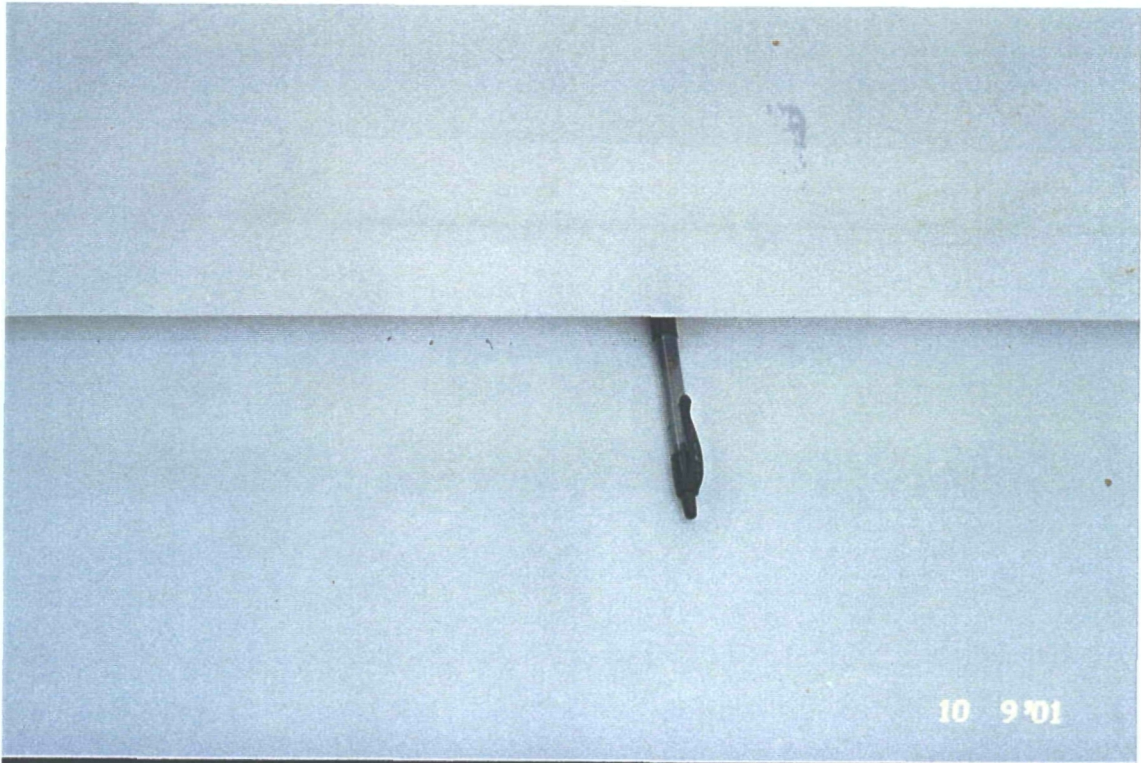
[illegible]



1



2



3



4



5



6

